

Administrator's Guide Axiom Capital Tracking Version 2020.1



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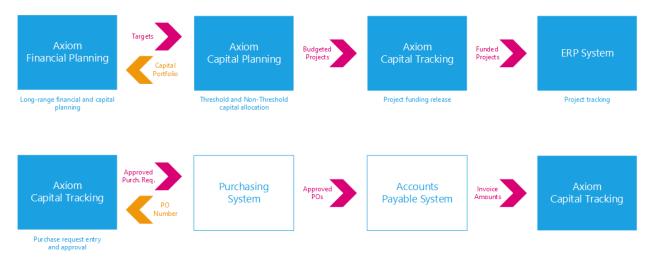
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Welcome to Axiom Capital Tracking

The Kaufman Hall Axiom Healthcare Suite includes two different applications related to capital:

- Axiom Capital Planning Supports Threshold and Non-Threshold capital planning, including comprehensive process workflow and sophisticated capital approval decision making.
- Axiom Capital Tracking Provides complete support for the capital requisition, funding authorization, and tracking processes as well as interfaces directly with AP/MM systems.

These applications integrate with each other as well as the rest of the Axiom Healthcare Suite products per the following diagram.



The individuals who will interact with the Axiom Capital Tracking most often include:

- **Owner** The originator of a capital request, usually a manager or director.
- VP Conducts initial reviews of capital requests submitted by managers and directors.
- **Reviewers** Representatives of Information Systems, Facilities, and Clinical Engineering assigned to review requests for feasibility.
- Capital Committee A group of individuals assigned to review and prioritize all capital requests across the organization.
- **Purchasing** Representatives from purchasing and/or supply chain assigned to review purchase requests.
- Capital Transfer Transfers dollars across capital pools or projects.

- **Capital Accounting** Updates journal entry or capital invoice details that match to capital projects.
- Approver The party with ultimate sign-off authority for capital requests.

What is covered in this document

This manual is written for an Axiom Capital Tracking Administrator. These individuals in your organization are tasked with configuring, maintaining, and controlling other users' access to Axiom Capital Tracking-related features and data.

As an administrator, you have access to features and menus that are unavailable to regular end users such as department managers, non-finance executives, and other stakeholders. In some cases, the same screen or workbook might display slightly different in your interface than it would for an end user.

What's new

Welcome to Version 2020.1 of Axiom Capital Tracking!

Axiom Capital Tracking 2020.1 delivers updated integration with Axiom Rolling Forecast with a new wizard-based asset as well as a few other client requested enhancements.

Share project data with Axiom Rolling Forecasting

The Transfer Capital Tracking to Rolling Forecast utility has been redesigned and updated to provide a web-based wizard experience so that you can quickly and easily transfer the specific data needed to include and manage in your rolling forecast plan files.

Enhanced filtering for Update Project Initiator reports

In 2020.1, we enhanced the Update Project Initiator reports for both Axiom Capital Planning and Capital Tracking by providing new mechanisms in which to filter information. These enhancements include the standard refresh variables options included in many Kaufman Hall reports as well as an advanced filtering capability to only generate the reports with information you want to work with.

Axiom Capital Planning information displays in Financial Input sheet tabs

When transferring capital projects to Axiom Capital Tracking, you can now see that the values in the Financial Input sheets came from Axiom Capital Planning—make it easier to see where the data came from, particularly in Capital Tracking plan files with multiple sheets.

Planning 2022 projects and beyond

Why use this feature

To plan for 2022 and future year projects, the new 2022 file group has been added to Axiom Capital Planning.

NOTE: No new features have been developed for the 2022 file group for the Legacy (Excel) version of Axiom Capital Planning.

How this feature works

What: The new 2022 file group includes all drivers, calc methods, utilities, and templates used to manage the capital planning process for your organization.

Systems: Legacy only

Where: The 2022 file group is automatically included in the system.

Who: All Capital Planning users

How: There are several steps involved in moving your planning process to a new year. For the location in the online help that includes instructions that will walk you through this process, see the following section.

Where to find more information

The following topics in the online help have been updated with information and instructions for using this feature:

• Rolling Forward to a new capital budget year

Best practices for tracking capital projects

Though Axiom Capital Tracking is highly configurable, it does make a few very general assumptions as to how your organization should structure the capital tracking process.

While every organization's situation is unique, it has been our experience that organizations typically get the best results when their capital tracking process:

- Uses online capital project forms, capital purchase requests, and workflows.
- Monitors approval and tracking processes.
- Provides visibility and timely reviews of actual spend against budgeted and committed spend.

- Implements structured workflows.
- Interfaces directly with AP/MM systems.

Getting Started

This section provides information on the basics of using Axiom Capital Tracking, such as:

- General system navigation and user interface
- Using spreadsheet plan files and report files from an end user perspective
- Using general Axiom spreadsheet file features such as views, snapshots, and printing
- Viewing data using web-friendly reporting tools such as Web Reports and Data Explorer

This section is intended for all users who are getting started with Axiom Capital Tracking. For end users, this section provides an ongoing reference for file-related tasks.

Understanding Threshold and Non-Threshold projects

A major principle underlying the design of Axiom Capital Tracking is how it handles Threshold and Non-Threshold projects.

Project Type	Description	
Threshold (Pro Forma)	60–80% of capital constraint	
	 Usually about 30 projects system-wide 	
	 Requires in-depth, consistent analytics (pro forma) 	
	 System-level decision making (not entity level) 	
Non-Threshold (Summary)	• 20-40% of capital constraint	
	Consists of all capital items not considered Threshold	
	Requires standardized information to facilitate efficient evaluation	
	 Decentralized decision making (Entity and/or VP level) 	

The following table explains the differences between these project types:

While your organization can build your own forms and processes around each type of capital project request, Axiom Capital Tracking provides standard templates for submitting, reviewing, and approving Threshold and Non-Threshold projects.

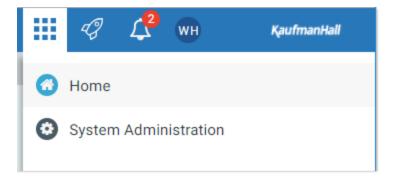
Home page

All users have a home page that opens automatically when you log into the Axiom Web Client. Depending on your system, this home page may be one of the following:

- A product-specific home page for an installed Axiom Capital Tracking product
- A custom home page created specifically for your organization
- The default Axiom Capital Tracking home page

If you have any questions about your home page, please contact your system administrator.

If you navigate away from the home page, you can return to it by using the Area menu 🗰 in the Global Navigation Bar:

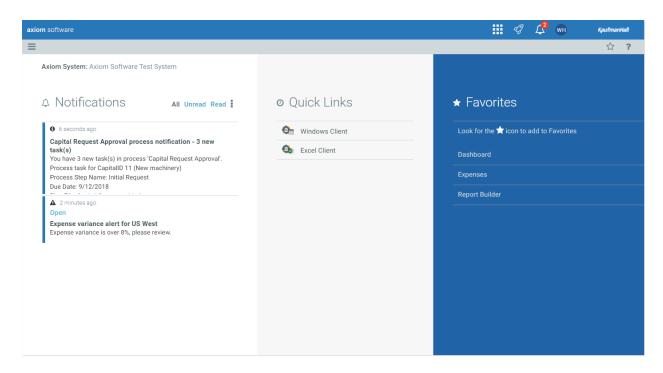


If you are in a system with installed products, this menu may contain product names instead of the **Home** item. In that case, you can select a product name to return to the home page for that product.

NOTE: If you are an administrator looking for more information on how the home page is determined, see Assigning alternate home pages (in Desktop Client Help).

Default home page

If a user does not have an available web-enabled home page, then the default home page is used. The default home page displays notifications, favorites, and quick links.



This page can also be accessed (by any user) by going to the following URL:

Example On-
Premise URLhttp://ServerName/Axiom/Home/LaunchpageWhere ServerName is the name of the Axiom Application Server, and Axiom is the
default name of the virtual directory.Example Cloudhttps://CustomerName.axiom.cloud/Home/Launchpage

System URL Where *CustomerName* is the name of your cloud service system.

This page has the following features:

- Notifications: You can read and delete notifications using the same features available in the Notifications panel.
- Quick Links: You can use a set of global quick links that are displayed here for easy access. These links are built-in to the page and cannot be customized. However, the link to the Excel Client may not be present if your system has been configured to hide it.
- Favorites: You can open and delete web favorites.

Launching Axiom Capital Tracking applications

You can launch various Axiom Capital Tracking applications from the Web Client Quick Launch menu, including the Axiom Excel Client and Axiom Windows Client.

The Quick Launch menu serves the following purposes:

- Users can install applications from this area as needed. Afterward, they can continue to launch installed applications from this location, or they can use other options (such as a shortcut on their desktop).
- For systems using SAML or OpenID authentication, this is the only option for users to launch installed applications. SAML and OpenID authentication require users to be authenticated using the Web Client before they can launch a desktop application.
- Users can install and launch add-ins such as the add-ins for Microsoft Office applications.

To open the Quick Launch menu:

axiom software		III 🥝 🗘 (NH KaufmanHall
 Axiom System: Axiom Software Test System Notifications All Unread Read : 6 seconds ago Capital Request Approval process notification - 3 new task(s) 	Quick Links Uindows Client Kacel Client	₩ Q Launch Fave Look for tt Dashboare	KaufmanHall
You have 3 new task(s) in process 'Capital Request Approval'. Process task for CapitallD 11 (New machinery) Process Step Name: Initial Request Due Date: 9/12/2018 A 2 minutes ago Open Expense variance alert for US West		Expenses Report Bui Add-in	MS PowerPoint Add-In
Expense variance is over 8%, please review.			

• Click the Quick Launch icon 🤣 in the Global Navigation Bar.

Launching the Axiom Desktop Client

Using the Quick Launch menu, you can launch the Axiom Desktop Client. Click on one of the following icons:

Item	Description	
Windows Client	Launches the Axiom Windows Client on your desktop.	
Excel Client	Launches the Axiom Excel Client on your desktop. Requires Microsoft Excel.	
	NOTE: This option may not display in the menu, in which case you should use the Windows Client as your desktop client.	

If the client is not already installed on the current workstation, clicking the icon will initiate the install and then launch the client. If the client is already installed, clicking the link will launch the client.

The appropriate client to use depends on your organization's preferences and on your user role. Your organization will provide instruction as to which client you should use.

For more information on installing the Windows Client and Excel Client, including prerequisites and configuration details, see the *Installation Guide*. Some software prerequisites can be downloaded and installed from the Web Client. You can access the prerequisites download page from the Axiom Capital Tracking About box.

Launching add-ins

Using the Quick Launch menu, you can launch Axiom Capital Tracking add-ins. Click on one of the following icons:

Item	Description
MS Word Add-In	Launches the Axiom Capital Tracking Add-In for Microsoft Word.
MS PowerPoint Add-In	Launches the Axiom Capital Tracking Add-In for Microsoft PowerPoint.

NOTE: One or both add-ins may not display in the menu, depending on your organization's preferences. The Word and

Navigation panel

Using the Navigation panel, you can navigate to your documents and to various areas of the Web Client.

To open the Navigation panel, click the menu icon in the left side of the gray task bar. To navigate to an area or document listed in the panel, click on the item.

axiom software	
=	
Navigation	Ŧ
📸 Home	
> 🖈 Favorites	
> ② Recent Places	
> 🖹 Reports	
Q Forms Explorer	
Report Builder	

Example Navigation panel

The Navigation panel updates dynamically to show the available navigation links for the currently active area of the Web Client. The following areas are available:

Area	Description	
Default	Axiom Capital Tracking provides a set of standard navigation links that show by default when you are in the Web Client. The previous screenshot shows the standard navigation links. These links provide access to your favorites, recent places, web-enabled reports and forms, and the Report Builder.	
	The standard navigation links can be customized, so each customer's system may look different. Navigation links can only be customized by administrators using the Desktop Client.	
System Administration	The system administration links show when you are in the System Administration area, and provide access to features such as the Table Manager, Audit Manager, and software updates.	
Product-Specific	Systems with installed products may have product-specific web navigation links. When you select a product name from the Area menu in the Global Navigation Bar., the product-specific links display in the Navigation panel. For more information, see the product-specific documentation.	

Additionally, when you open a report or other browser-based document, that document may be associated with a set of document-specific navigation links. These links are added to the Navigation panel while you are in that document.

Viewing system information

You can view the Axiom Software About box to see information about your current system, such as:

- System name
- Version numbers for the Axiom Capital Tracking platform and any installed products
- Application server URL
- Web server name

The About box also contains a link to download software prerequisites, if necessary for installation of the Desktop Client.

To open the About box:

- 1. Click the menu icon 🗰 in the Global Navigation Bar.
- 2. At the bottom of the Area menu, click About Axiom Software.

axiom software			48	42	WH	KaufmanHall
 Axiom System: Axiom Software Test System A Notifications All Unread Read : 6 seconds ago Capital Request Approval process notification - 3 new task(s) You have 3 new task(s) in process 'Capital Request Approval'. Process task for CapitalID 11 (New machinery) 	 O Quick Links Image: Windows Client Image: Excel Client 		Home	ب P	WH	<i>KaufmanHall</i>
Process tels Name: Initial Request Due Date: 9/12/2018		Report Bu	About	Aviom S	coftware	
		•	About	Axiom S	oftware	

Getting to know the interface

All Axiom Software products share a common interface and make use of many of the same features.

NOTE: The interface elements referenced in this section can vary depending on if or how your organization customizes them. This means that topics in this manual may reference features that do not display in your task panes, which means they may not be available for you to use. Contact your Axiom administrator for more information.

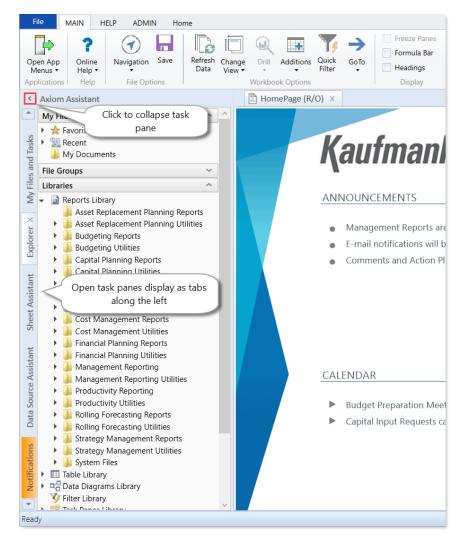
The interface includes several sections, including:

Display area

The main display area of displays the open files. By default, it shows the Kaufman Hall Home dashboard, which displays announcements, assigned tasks, links to dashboards, and contact information for administrators. Your Axiom Software product administrator configures the information that displays on this screen.

Task panes

A task pane provides access to commands, utilities, reports, plan files, and so on for Axiom Capital Tracking, and displays on the left side of the main display area. To switch between task panes, click the tabs on the left side of the interface. To expand or collapse the task panes, click the arrow in the left-hand corner above the tabs.



Ribbon tabs

Ribbon tabs provide access to commonly used features and shortcuts to frequently accessed files. They display above the task pane and main display areas. The role assigned to you determines the ribbon tabs that display. For example, the Admin ribbon tab only displays to those users assigned the Administrator role profile.

Main

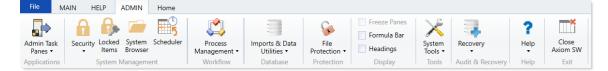
Includes commands for accomplishing most tasks in Axiom:

- Opening, closing, and saving files
- Accessing online help for products and advanced help
- Viewing data in spreadsheets
- Printing or emailing files
- Accessing shortcuts to frequently accessed reports



Admin

Includes commands for managing and configuring security, Scheduler jobs, processes, and data as well as other system-related tools used by administrators. This ribbon tab only displays to users with administrator privileges.



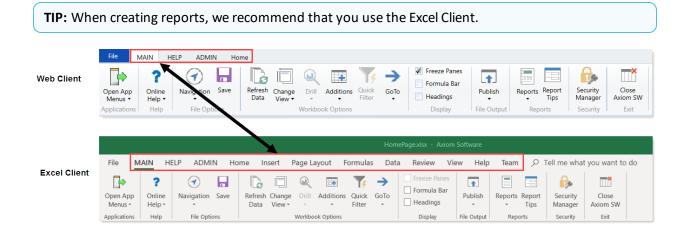
► Home

Includes standard spreadsheet commands.



Some options on the ribbon tabs display grayed out unless certain types of files such as reports or plan files are currently open or if you do not have the necessary security permissions to use the feature.

The Excel Client displays all of the same ribbon tabs included in a normal Excel file. The Windows Client only includes a subset of the same ribbon tabs located in the Home ribbon tab.



Using the Axiom Assistant

The Axiom Assistant area provides quick and easy access to files and features as you work throughout Axiom Capital Tracking. A variety of task panes is available to help you perform general and context-sensitive tasks.

The Axiom Assistant area is located on the left side of the screen, below the ribbon and to the left of any opened files. By default, the area is expanded, and you can work with any of its available task panes by clicking the side-tabs along the left edge of the pane.



Axiom Assistant task panes

The task panes available to you in the Axiom Assistant area depend on your system configuration and your security permissions. The following task panes may be available:

Task pane	Description	Availability
My Files and Tasks	Bookmark and view favorites and recent files, utilities, and so on.	This task pane displays for all users. Use to bookmark favorite files as well as view recent files, utilities, reports, and so on that you have viewed. You can also view items in your My Documents folders.
Data Source Assistant	Helper tool to build data sources, such as Refresh Variables, DataLookup, and Grid.	This task pane is system-controlled and displays if you have the appropriate security permissions, and the file is an Axiom file.
Explorer	Open files and other items that you have access to, including favorites.	This task pane is included by default, but may be disabled in your system or restricted to only certain users.
File Processing	Configure and perform file processing for an Axiom file, such as to perform Multipass processing, file collect, or batch processing.	This task pane is system-controlled and displays if you have the appropriate security permissions, and the file is enabled for File Processing.
Form Assistant	Configure form settings for an Axiom file, and preview the form.	This task pane is system-controlled and displays if you have the appropriate security permissions, and the file is enabled for Axiom forms.
Messages	View comments about the current document, and add comments.	This task pane is system-controlled and displays for all eligible documents.
Notifications	View alert and system notifications, and open associated files.	This task pane is system-controlled and displays if you have any active notifications.
Process	View process information and complete process tasks. By default, this task pane only displays if it is relevant to you. For example, if you are the assigned owner of a process task.	This task pane is included by default, but may be disabled in your system.
Sheet Assistant	Configure workbook and worksheet settings for an Axiom file, including Axiom queries.	This task pane is system-controlled and displays if you have the appropriate security permissions, and the file is an Axiom file.

Task pane	Description	Availability
Table	View table details, set a filter, and refresh the currently opened table.	This task pane is system-controlled and displays when using Open Table in Spreadsheet.
Workflow	Work with currently assigned plan files and complete workflow tasks. By default, this task pane only displays if you have assigned tasks (current or completed) for an active workflow.	This task pane is included by default in older systems, but may be disabled in your system or may use different configuration settings to determine visibility. Newer systems do not have this task pane.
<custom task<br="">Panes></custom>	Your organization may have defined one or more custom task panes for your system.	Custom task panes may open automatically when Axiom Capital Tracking is launched, or you may have access to the Task Panes Library to open certain task panes, as needed.

The order of task panes in the Axiom Assistant area cannot be manually changed. Your Axiom Software product administrator specifies an order for the task panes to open when you start Axiom Capital Tracking. System-controlled task panes display after these startup task panes.

Minimizing the Axiom Assistant

By default, the Axiom Assistant area is maximized when you first start Axiom Capital Tracking. If desired, you can minimize this area—for example, to gain more screen space while working on a file. When minimized, the area displays as a thin strip along the left side of the application, with one or more side-tabs for each task pane.

You can expand the Axiom Assistant area to perform a task, and then minimize it again when you are finished.

- To minimize the Axiom Assistant pane, click the ^s button in the header.
- To expand the Axiom Assistant pane, click the > button in the collapsed header, or click one of the task pane tabs.

Axiom Capital Tracking remembers the state of the Axiom Assistant (minimized or expanded) when you exit the application, and applies that state the next time you open it on the same machine.

TIP: It is not possible to completely hide the Axiom Assistant area when task panes are open, however, if no task panes are open, then the Axiom Assistant area is automatically hidden (and automatically displays again when you open a task pane).

Opening task panes

In some cases, task panes open automatically—you do not need to manually open them.

- Certain task panes are configured to open automatically when you start Axiom Capital Tracking. These task panes are considered to be global task panes that you may want to use at any time while you work in the system. For example, if you have administrator privileges, the Admin task pane may open for you automatically.
- Other context-sensitive task panes only open when using certain features. For example, the File Processing task pane only displays when you open a file that is enabled for File Processing. There is no need to manually open the task pane because it is always available when it is relevant (and assuming that you have security permissions to view it).

Closing task panes

To close a task pane, click the X icon on the side-tab for the task pane.

Using task panes in Excel 2013 or Excel 2016

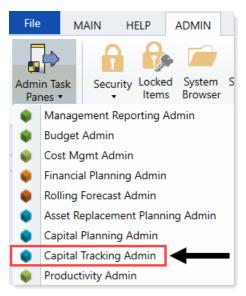
When using Axiom Capital Tracking with Excel 2013 or 2016, each file opens within its own window, and each window maintains its own set of ribbon tabs and task panes. This means that, as you switch windows, the set of task panes available in each window may be different. For example:

- If you manually opened a task pane in one window, that task pane will only be present in that window. It will not be present in other windows.
- The currently active task pane is managed independently for each window, so the active task pane may change as you change windows. This can also occur when using the Windows Client or Excel 2007 / 2010, if you switch between files that have different default task pane associations. However, in Windows 2013 / 2016, it may also happen when switching between files with the same default task pane associations.
- The current state of task panes such as the Explorer task pane is managed independently for each window. For example, if you expand the Reports Library in one window, that expansion is not present if you switch to a different window.

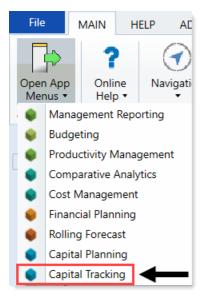
Opening the Axiom Capital Tracking task panes

To open the Axiom Capital Tracking task panes:

• For administrators, in the Admin ribbon tab, click Admin Task Panes, and select Capital Tracking Admin.



• For end users, in the Main ribbon tab, click Open App Menus, and select Capital Tracking.



Opening the Explorer task pane

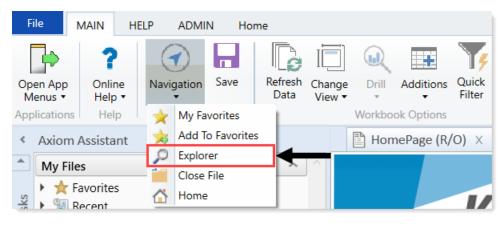
Axiom Capital Tracking provides a built-in Explorer task pane so that you can quickly access your favorites, recent items, and all the files that you have rights to access.

TIP: You can also access Favorites, Recent, and My Documents from the My Files and Tasks task pane.

By default, all users are given access to this task pane. If desired, administrators can disable use of this task pane entirely, or restrict access to certain sets of users.

To access the Explorer task pane:

• In the Main ribbon tab, click Navigation, and select Explorer.



Using the Workflow task pane

Axiom Capital Tracking provides a built-in Workflow task pane that allows you to easily see and access your workflow tasks. By default, the task pane is configured to open automatically for any user who has current tasks in an active workflow. If desired, you can change the conditions that make the task pane visible, or disable it entirely.

Managing favorites

You can save files and other items as favorites for quick access to commonly used items. Your favorites list is available in the following locations:

- The Explorer task pane in the Axiom Assistant area
- The Axiom Explorer dialog (if you have permission to access this dialog)

NOTE: Your organization may choose not to use the Explorer task pane or to restrict it to certain users. In this case, you can access your favorites from the My Files and Tasks task pane.

When an item is saved to favorites, you can open the item by double-clicking it, or you can right-click it to access any other commands available on the item in its native area. For example, if you have rights to the Table Library and you save a table as a favorite, you can right-click the table favorite and perform actions such as editing the table structure.

If an item that a favorite points to is deleted, then the favorite becomes invalid and a red arrow icon displays next to it.

If you attempt to open an invalid favorite, a message box informs you that the item has been deleted, and asks whether you want to delete the favorite. If a file is moved or renamed within the Axiom file system but it retains the same document ID, then the shortcut is not broken.

Saving favorites

- In the Explorer task pane and the Axiom Explorer dialog, by right clicking an item and selecting Add to Favorites.
- By right clicking the file tab of an opened file and selecting Add to Favorites.

TIP: If you open a table using **Open Table in Spreadsheet**, and save the open table as a favorite (using the file tabs), the settings you used are automatically saved as part of the favorite in the shortcut properties. You may want to rename the favorite to indicate the particular settings.

Organizing favorites

You can create sub-folders in the Favorites area to organize favorites by folder. To create a new folder, right-click **Favorites**, and select **New Folder**.

By default, favorites display in the order that they were added. New favorites are added to the bottom of the list. You can drag and drop individual favorites to change the order. You cannot reorder subfolders—they always display in alphabetical order.

To rename a favorite, right-click the item, and select **Rename**. The name becomes editable, and you can type a new name.

Shortcut properties

You can edit the shortcut properties for a favorite. Right-click the favorite, and select **Shortcut Properties**. In this dialog, you can edit the shortcut name, change the shortcut target, and define certain shortcut properties.

The available shortcut properties vary by file type. For example, you can configure a report favorite to always open as read-only, or to automatically apply a Quick Filter when opening.

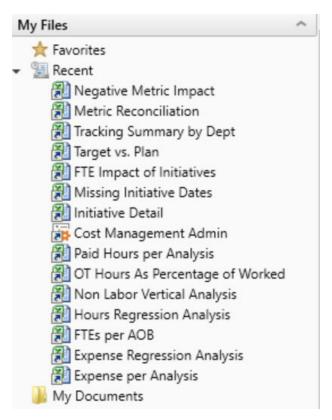
Deleting favorites

To delete a favorite, right-click the item, and select **Delete**.

Opening recent files

Axiom Capital Tracking maintains a list of your recently opened files in the **My Files and Tasks** task pane. You can use this list for quick access to recent files.

The recent file list is located in the **My Files** section. Double-click the files to open them, or right-click to access the context menu for the file type.



The list displays the last 15 files that you recently opened. Note the following:

- To clear the list, right-click Recent, and select Clear History.
- To continue to have quick access to a recent file, you can add it to your favorites. Right-click the file, and select Add to favorites.
- If the icon next to a file name is a red arrow, this means that the file has been moved or deleted since you accessed it, so you can no longer open it from the recent file list.

NOTE: In the Windows Client only, you can only access recent files from the **File** menu. In the Excel Client, although your recent files are tracked in **File** > **Recent**, those links point to the temporary versions of the file stored on your local drive, not the source versions of the files stored in the Axiom database. Therefore, you cannot use Excel's recent file list to open Axiom files.

Commenting on form documents

When viewing an Axiom form, you can view comments that other users have made about the document and also make comments about the document. New comments are stored in the message stream for that document, so that all other users who access the document can see the comment. Additionally, you can "tag" other users in the comment, so that the tagged users are notified about the comment.

Viewing comments

To view the message stream for the current document, click the **Messages** icon (the speech bubble) in the gray task bar across the top of the form. The **Message Stream** panel opens, showing all comments that have been made about the document.

Capital Planning					
≡ 📎 💬 🖌					
Message Stream 📮	Project ID CP_Pend	ling_4 CAPREQ 4 Project	Type : Engineering / Facilitie		
+ Add Comment	Master Fa	acility Plan, Ne	ew Cancer Cen ⁻		
Jodie Landes 7 minutes ago Approving project.	SETUP	PROJECT	FINANCIAL		
	Description	Details Picklists	s Capital Questions		
Reminder Steve Smith 1 day ago @Jodie Landes Please review this capital request.					
	Short Description (X) (22 of 50 chars)				
	Long Descrip	otion (X) (59 of 25	0 chars)		

Comments display in the order they were created, with the most recent comment shown at the top of the panel. Each comment includes information on when the comment was made and the user who made it.

If the comment contains more content than can be displayed within the panel view, then click the > symbol to open a dialog with the full comment text.

The system stores comments for the life of the document, and cannot be deleted.

Adding a comment

To add a comment, click **Add Comment** at the top of the Message Stream panel. In the **Add Comment** dialog, you can enter an optional title for the comment, and then enter the comment text. Basic text formatting of bold, italic, and underline is available.

le				
Quarte	erly Results			
essage	3			
в			Tag user	
D	I <u>U</u>		rug user	
	Doe Quarterly data has be	een loaded to the report		
		een loaded to the report		
		een loaded to the report		
		een loaded to the report		
		een loaded to the report		

If desired, you can "tag" one or more users in the comment, so that those users are notified about the comment. Any user tagged in the comment will receive an email that contains the content of the comment and a link to the document. To tag a user, use the **Tag user** box to find a user and insert the tag. You can type into the box to find a specific user, or select a user from the drop-down list. When you click on a user name in the list, a tag will be inserted at the current cursor point in the comment text. The tag displays as @FirstName LastName.

When you click **Post**, the comment is saved to the message stream, and any tagged users will be notified.

NOTES:

- All users with access to the document can see comments posted to the message stream. Any comments made should be appropriate for the entire document audience. Do not post any sensitive information to the message stream.
- Adding a comment automatically subscribes you to the document's message stream, and tagging a user automatically subscribes that user to the document's message stream.

Ongoing notifications (subscriptions)

If you have made a comment in a document's message stream, or if you have been tagged in a comment, you are now subscribed to that document's message stream. Whenever a new comment is made to that document's message stream, you will receive a notification in the Notifications.

The notification details the user who made the comment and when it was made, the text of the comment, and a link to open the file.

Currently it is not possible to unsubscribe from a document's message stream once you have been subscribed.

Viewing alert notifications

When a new alert is added to the database as a result of an alert processing, a notification is delivered to all designated alert recipients using email and/or the Notifications task pane.

Email notification

If the alert notification is delivered using email, the subject of the email is "Axiom Capital Tracking alert: <*Alert Title>*". The alert message displays within the body text. The email also contains a hyperlink to the supporting file if one is specified in the alert definition.

Notification task pane

Alert notifications display in the Notifications task pane in the order they are received, with the most recent alerts at the top.

By default, notifications are collapsed so that only the severity icon and the alert title display. You can expand the notification to read the alert message and to navigate to the supporting document for the alert, if defined.

If you receive a new alert notification during the current session or if unread alerts are present when you log in, the Notifications tab flashes orange and remains orange until the tab is clicked. New notifications display in bold text until they are read.

Using the right-click menu, you can mark notifications as read or unread and can delete notifications from the task pane. If you have rights to access the source file for an alert, you can also navigate to the alert definition in that file.

Notifications do not have an expiration date. A notification continues to display in your Notifications task pane until you delete it or until the notification record is purged from the database using the System Data Purge task in Scheduler.

NOTE: If you delete a notification, this simply removes the notification from the task pane. It does not delete the notification record from the database.

The Notifications task pane is system-controlled. You cannot manually open and close it, and it is not available for customization. The task pane behaves as follows:

- The task pane displays on startup if you have an active notification (read or unread). If the task pane contains unread notifications, the task pane is active, and the tab flashes. The task pane continues to display for the duration of the current session, even if you delete all active notifications from the task pane.
- The task pane does not display on startup if you have no active notifications. If you receive a new notification mid-session, the task pane automatically opens, becomes active, and the tab flashes.

Changing your Axiom Capital Tracking password

If your authentication method is Axiom Prompt, you can change your password as needed. This feature does not apply if you use any other authentication method, such as Windows User Authentication, because those passwords are controlled externally from Axiom Capital Tracking.

To change your Axiom Capital Tracking password:

1. On the Main ribbon tab, in the Help group, click Help > Change Password.

NOTE: This command is only available to Axiom Prompt users.

2. In the **Set Password** dialog, type your current password, then type and confirm your new password.

If password rules are being enforced, your password must meet the rules. A validation message informs you of the rules, if necessary. Alternatively, you can click **Generate Password** to autogenerate a password that meets the rules. If you do this, make sure to note the generated password because you will not have another opportunity to see it. If you do not note the password and cannot log in later, an administrator will need to reset your password.

3. Click OK.

Your password is now changed. You need to use this new password the next time you log in.

Exiting Axiom Capital Tracking

To exit Axiom Capital Tracking, in the Main ribbon tab, click the Close Axiom Software button in the Exit group.

File N	IAIN H	ELP ADMIN Ho	me										
Open App Menus •	? Online Help ▼	Navigation Save	Refresh (Data	Change View •	Drill	Additions	Quick Filter	→ GoTo	Freeze Panes Formula Bar Headings	Publish	Reports Report Tips	Security Manager	Close Axiom SW
Applications	Help	File Options		1	Workbo	ok Options			Display	File Output	Reports	Security	Exit

You can also simply close the application by clicking the **X** button in the top right corner of the window. Axiom Capital Tracking prompts you to save any changes to unsaved files.

Configuring Purchase Request Assumptions and Drivers

In Axiom Capital Tracking, each file group contains an associated driver file with configuration settings and assumptions referenced by all of the other files associated with that file group. Along with its other functions, the driver file allows you, as the administrator, to decide which sections to include or exclude from plan files and enter many of the values that display as pre-populated in plan files and reports.

The configuration settings in the driver files can affect the structure of plan files and reports by allowing you to show/hide sections of sheets, columns, and/or rows. Assumptions are used in calculations throughout the entire capital tracking process. Examples of assumptions include:

- Volume growth rates
- Inflation rates
- Labor merit increases and benefits percentages
- Reimbursement percentages

You access and update Axiom Capital Tracking drivers using the Purchase Request Drivers utility. You can also access this utility directly from the Axiom Capital Tracking web home screen. The drivers are grouped into two main driver file types: Configuration and Retrospective. These driver file types display at the top of the utility as tabs. To update the driver in a particular file, click the tab drop-down, and select the driver to update.

Configuration - Retrospective -		
Retro Comprehensive Updates General S Filegroup : PurchaseRequests_V1 (PROTOTYPE)	←	Save
System-Wide Parameters		
Enable Project-level Approval Process?	Yes	
Enable Purchase Request Approval Process?	Yes	
Enable Purchase Request / ERP Integration Process?	Yes	
Start Month	7	
Default GL Account		
Use Project ID as Default GL Account for Purchase Req?	No	
Allow Capital Tracking User Role to Edit GL Account Selection?	Yes	
Store Tansfers To and From as Project ID or CAPREQ?	ProjectID •	
Allow Input of Operating Costs for Purchase Request?	Yes	
Allow Input of Taxes for Purchase Request?	No	
Default Tax Rate	0.00%	
Allow Input of Freight for Purchase Request?	Yes	
Purchase Request Threshold Parameters		
Enforce Spending Limits Based on:	Requested v	
Allowable Percentage over Adjusted Budget	2.00% Yes	
Allowable Dollar Amount over Adjusted Budget	50,000.00 Yes	
	CTREQ Picklist	
Use Alternate Security for Purchase Request Creation?	No Picklist01	

The following table describes each driver file and the drivers associated with it:

Driver File	Description	Drivers
Configuration	Includes general system settings and configuration selections, such as enabling system processes, custom fields for purchase request header inputs, and custom fields for purchase request line item inputs.	 General Setup Purchase Request Header - Project Fields Purchase Request Header Fields Purchase Request Line Item Fields Purchase Request Header Picklists Purchase Request Line Item Picklists Field Name Tables
Retrospective	Includes questions related to capturing detailed inputs regarding retrospective project analysis.	Retro Comprehensive UpdatesRetro Status Updates

NOTE: Depending on a user's security profile settings, certain parts of a driver file may be protected.

IMPORTANT: Any change to the configuration settings and assumptions in driver files can affect the structure and contents of any number of related plan files.

Configuring general setup options

The General Setup driver controls various system-wide settings and define purchase request Threshold limits.

Configuration 🗸	Retrospective 🗸								
General Setup Filegroup : PurchaseRequests								Save	?
System-Wide Para	System-Wide Parameters								
Enable Project-leve	l Approval Process?		Yes						
Enable Purchase R	equest Approval Proces	s?	Yes						
Enable Purchase R	equest / ERP Integratior	n Process?	Yes						
Start Month				7					
Default GL Accoun	t		0		•				
Use Project ID as D	efault GL Account for P	urchase Req?		No					
Allow Capital Track	ting User Role to Edit GL	Account Selection?	Yes	,					
Store Tansfers To a	and From as Project ID c	or CAPREQ?	Projec	tID	•				
Allow Input of Ope	rating Costs for Purchas	e Request?	Yes						
Allow Input of Taxe	s for Purchase Request	?		No					
Default Tax Rate				0.00%					
Allow Input of Freig	jht for Purchase Reques	st?	Yes	;					
Purchase Request	Threshold Parameters								
Enforce Spending I	Enforce Spending Limits Based on:		Comm	nitted	•				
Allowable Percenta	ige over Adjusted Budge	et	2.00%			Yes			
Allowable Dollar Ar	able Dollar Amount over Adjusted Budget			50,000.00		Yes			
						CTREQ Picklist			
Use Alternate Secu	rity for Purchase Reque	st Creation?		No		Picklist01			

To configure general setup options:

1. From the Axiom Capital Tracking home page, click Edit Drivers.

NOTE: To access this location from the Cap Tracking Admin task pane, in the Administration section, double-click Purchase Request Drivers.

acking							III & A
cess Summary - Capital	Tracking		Process Sur	nmary - Purcha	se Requests		
O New	0 Due Soon	0 Overdue	O Total	0 New		0 Due Soon	0 Overdue
Plan File Directory	Capital Plan File Management: View Plan File (Capital Tracking) View Capital Tracking Projects.	le Directory	Plan File	Directory	(Purchase	lan File Management: View eRequests) chase Requests.	Plan File Directory
Capital Plan File Management: Create or Open Capital Tracking Project or Open Capital Projects Capital Projects will open in a new window.			Capital Plan File Management: Create or Open Purchase Requests will open in a new window. Purchase Requests				
opy or Transfer Capital Projects	Capital Plan File Management: Copy or Tran Copy Capital Projects from one File Group to You can also use this utility to transfer Capit Planning File Groups to Capital Tracking.	Launch Capita	Transfer Utility		-	ch the Capital Transfer Utility fer funds between capital projects.	
nch Capital Dashboard	Capital Reports: In this Dashboard, you will see a summary a Tracking process.		ital Tracking y Report	In this rep	eports: Launch the Capital 1 oort, you will be able to view associated Purchase Reque	a summary of all Capital Tracking	
Edit Drivers	Capital System Administration: Adjust the C Adjust the Drivers for your Capital Tracking I Capital Planning installed, this will open the	Edit (lrivers		ystem Administration: Adju: e Drivers for your Purchase I	st Purchase Request Drivers Request File Group.	
nsfer Capital Tracking cts to Rolling Forecast	Capital Integration: Transfer to Axiom Rollin Transfer actual capital spent by quarter to A						

2. From the Configuration tab, click General Setup.

Configuration 👻	Retrospective 🗸			
General Setup	\leftarrow			
Purchase Request	Header - Project Fie	lds		
Purchase Request	Header Fields			
Purchase Request	Lineltem Fields			
Purchase Request	Header Picklists			
Purchase Request	Lineltem Picklists		Yes	
Field Names Table	9		Yes	
Enable Purchase R	equest / ERP Integration	Process?	Yes	
Start Month			7	

3. Complete the fields in the following areas, as needed:

System-Wide Parameters

Option	Description
Enable Project-level Approval Process?	Click the toggle to Yes or No.
Enable Purchase Request Approval Process?	Click the toggle to Yes or No.
	NOTE: If you select No, the buttons related to this process will be hidden automatically in the task panes.
Enable Purchase Request/ERP Integration Process?	Click the toggle to Yes or No.
Start Month	Type the start month of your fiscal year.
Default GL Account	Type the GL account to use if a GL account has not been set up for the capital project.
Use Project ID and Default GL Account for Purchase Req?	Click the toggle to Yes or No. NOTE: This is applicable if your organization utilizes many CIP accounts on your projects.
Allow Capital Tracking User Role to Edit GL Account Selection?	Click the toggle to Yes or No.
Store Transfers To and From as Project ID or CAPREQ?	Select the appropriate drop-down item. If you choose Project ID, we suggest that you assign the Project ID prior to completing any transfers.
Allow Input or Taxes for Purchase Request?	Click the toggle to Yes or No.
Default Tax Rate	Type the most common tax rate used if your organization has situations where a tax rate is different than the default. Normally, this is at the entity level.
Allow Input of Freight for Purchase Request?	Click the toggle to Yes or No.
Default Freight Account	Select the default account to use for freight.
	NOTE: Users can select a different account in the purchase request template.

Purchase Request Threshold Parameters		Purchase	Request	Threshold	Parameters
---------------------------------------	--	----------	---------	-----------	------------

Option	Description
Enforce Spending Limits Based on:	Select Committed or Request . Committed adds what is being requested to the already committed amount for the project and compares this to the adjusted budget for any overages.
Allowable Percentage over Adjusted Budget	Type the percentage threshold for the Adjusted Budget amount for the current year and the total budget. NOTE: The lesser of the Allowable Percentage and Allowable Dollar Amount values is used as the threshold limit. The purchase request amount must fall below both the current year and budget total thresholds. If the amount exceeds either threshold, the system displays a message to the user and does not allow them to save the purchase request.
Allowable Dollar Amount over Adjusted Budget	Type the dollar amount threshold for the Adjusted Budget amount for the current year budget and the adjusted budget in total. NOTE: The lesser of the Allowable Percentage and Allowable Dollar Amount values is used as the threshold limit. The purchase request amount must fall below both the current year and budget total thresholds. If the amount exceeds either threshold, the system displays a message to the user and does not allow them to save the purchase request.
Use Alternate Security for Purchase Request Creation?	Select No unless you have specifically spoken with your KH consultant regarding this option.

- 4. After making your changes, in the upper right corner of the page, click **Save**.
- 5. At the confirmation prompt, click **OK**.

Configuring project fields for purchase request header

Project header fields display additional capital project details for each purchase request. You can define headers for up to ten separate projects.

Purchase Request Heade Filegroup : PurchaseRequests	r -	Project	t Fi
Description		Enable?	
Class	•	Never	•
Priority	•	Never	•
Reason	•	Never	•
Category	•	Never	•

To configure project fields for purchase request header: 1. From the Axiom Capital Tracking home page, click Edit Drivers.

> NOTE: To access this location from the Cap Tracking Admin task pane, in the Administration section, double-click Purchase Request Drivers.

Configuration -

Enter Description for Picklist01

Enter Description for Picklist02

Enter Description for Picklist03

Enter Description for Picklist04

Expected Start Date (mm/dd/yyyy)

Projected Completion Date (mm/dd/yyyy)

Fields

▼

•

•

▼

▼

•

Never

Never

Never

Never

Never

Never

▼

•

•

▼

•

•

Save

Retrospective -

acking							III 🕫 🗘 🥥		
cess Summary - Capit	al Tracking		Process Sum	mary - Purchas	se Requests				
O New	0 New 0 Due Soon 0 Overdue		O _{Total}	0		0 Due Soon	0 Overdue		
Plan File Directory	Capital Plan File Management: View Plan File (CapitalTracking) View Capital Tracking Projects.	t Directory	Plan File	Directory	(Purchase	an File Management: View Pl Requests) hase Requests.	an File Directory		
ite or Open Capital Projects	en Capital Tracking Project				an File Management: Create Requests will open in a new v				
copy or Transfer Capital Projecta	Capital Plan File Management: Copy or Tran Copy Capital Projects from one File Group to You can also use this utility to transfer Capita Planning File Groups to Capital Tracking.	another.	Launch Capital	Fransfer Utility		an File Management: Launch ity, you will be able to transfe	the Capital Transfer Utility r funds between capital projects.		
aunch Capital Dashboard	Planning File Groupe to Capital Tracking.			al Tracking Report	In this rep	ports: Launch the Capital Tra ort, you will be able to view a associated Purchase Request	summary of all Capital Tracking		
Edit Drivers	Capital System Administration: Adjust the Cr Adjust the Drivers for your Capital Tracking F Capital Planning installed, this will open the C	ile Group. NOTE: if you have	E: if you have		Capital System Administration: Adjust Purchase Request Drivers Adjust the Drivers for your Purchase Request File Group.				
ansfer Capital Tracking sjects to Rolling Forecast	Capital Integration: Transfer to Axiom Rolling Transfer actual capital spent by quarter to Ax								

2. From the Configuration tab, click Purchase Request Header - Project Fields.

Configuration 🗸	Retrospective -			
General Setup				
Purchase Request	t Header - Project Fie	lds 🔶	-	
Purchase Request	Header Fields			
Purchase Request	t Lineltem Fields		Enable?	
Purchase Request	t Header Picklists		Enable?	
Purchase Request	t Lineltem Picklists	•	Never	•
Field Names Table	9	•	Never	•
Reason		•	Never	•

- 3. In the **Description** column, select a header field.
- 4. In the Enable column, select one of the following:
 - To display the field, click Always.
 - To hide the field, click Never.
- 5. After making your changes, in the upper right corner of the page, click **Save**.

6. At the confirmation prompt, click **OK**.

Configuring fields for purchase request headers

Purchase request header fields allow you to create user input fields to capture additional purchase requisition details. You can define up to ten separate purchase request header fields. User entries are limited to 100 characters.

Configuration - Retrospective -						
Purchase Request Header F Filegroup : PurchaseRequests	ields					
				quired	Input	
Description	E	nable	for	Save?	Format	
POTextField01	Never	•		No	Text	•
POTextField02	Never	•		No	Text	•
POTextField03	Never	•		No	Text	•
POTextField04	Never	•		No	Text	•
POTextField05	Never	•		No	Text	•
POTextField06	Never	•		No	Text	•
POTextField07	Never	•		No	Text	•
POTextField08	Never	•		No	Text	•
POTextField09	Never	•		No	Text	•
POTextField10	Never	•		No	Text	•

To configure fields for purchase request headers:

1. From the Axiom Capital Tracking home page, click Edit Drivers.

NOTE: To access this location from the Cap Tracking Admin task pane, in the Administration section, double-click Purchase Request Drivers.

icking							Ш « Д
cess Summary - Capital "	Tracking		Process Sur	nmary - Purcha	se Requests		
O New	0 Due Soon 0	Overdue	O _{Total}	0 New		0 Due Soon	0 Overdue
Plan File Directory	Capital Plan File Management: View Plan File (CapitalTracking) View Capital Tracking Projects.	Directory	Plan File	Directory	(PurchaseR	i File Management: View equests) sse Requests.	Plan File Directory
Capital Plan File Management: Create or Open C Create or Open Capital Projects Capital Projects will open in a new window.		Capital Tracking Project		or Open Requests	Capital Plan File Management: Create or Open Purchase Requ Purchase Requests will open in a new window.		
py or Transfer Capital Projecta	Capital Plan File Management: Copy or Transf Copy Capital Projects from one File Group to a You can also use this utility to transfer Capital Planning File Groups to Capital Tracking.	nother.	Launch Capital Transfer Utility			-	oh the Capital Transfer Utility fer funds between capital projects.
Planning File Groups to Capital Tracking. Capital Dashboard Capital Dashboard Capital Dashboard Capital System Administration: Adjust the Ca Adjust the Drivers Adjust the Drivers Capital Planning installed, the will open the Cf		analysis of your Capital		ital Tracking y Report	In this repor		Tracking Summary Report a summary of all Capital Tracking ests.
		g File Group. NOTE: if you have		Edit Drivers		te m Administration: Adju Irivers for your Purchase	t Purchase Request Drivers equest File Group.
sfer Capital Tracking ts to Rolling Forecast	Capital Integration: Transfer to Axiom Rolling Transfer actual capital spent by quarter to Axi						

2. From the Configuration tab, click Purchase Request Header Fields.

Configuration 🔫	Retrospective 🗸				
General Setup					
Purchase Request	t Header - Project Fie	lds			
Purchase Request	t Header Fields				
Purchase Request	t Lineltem Fields		Enable?		
Purchase Request	t Header Picklists		Endore.		
Purchase Request	t Lineltem Picklists	•	Never	•	
Field Names Table	e	▼	Never	•	
Reason		•	Never	•	

- 3. In the **Description** column, type a name for the field.
- 4. In the Enable column, select one of the following:
 - To display the field, click Always.
 - To hide the field, click Never.
- 5. In the Required to Save column, do one of the following:

- To require users to complete the column before saving, click the toggle to Yes.
- To allow users to save without completing the field, click the toggle to No.
- 6. In the Input Format column, select the field format type to use.
- 7. After making your changes, in the upper right corner of the page, click **Save**.
- 8. At the confirmation prompt, click **OK**.

Configuring line item fields for purchase requests

Purchase request line Item fields allow you to create user input fields to capture additional purchase requisition details. You can define up to ten separate purchase request header fields. User entries are limited to 100 characters.

onfiguration 🗕 Retros	pective 🔻				
Purchase Reque		ו Fi	elds		Save
			Required	Input	
Description	Enable		for Save?	Format	
LITextField01	Never	•	No	Text 🔻	
LITextField02	Never	•	No	Text 🔻	
LITextField03	Never	•	No	Text 🔻	
LITextField04	Never	•	No	Text 🔻	
LITextField05	Never	•	No	Text 🔻	
LITextField06	Never	•	No	Text 🔻	
LITextField07	Never	•	No	Text 🔻	
LITextField08	Never	•	No	Text 🔻	
LITextField09	Never	•	No	Text 🔻	
LITextField10	Never	•	No	Text 🔻	

To configure line item fields for purchase requests:

1. From the Axiom Capital Tracking home page, click Edit Drivers.

NOTE: To access this location from the Cap Tracking Admin task pane, in the Administration section, double-click Purchase Request Drivers.

acking							III 🕫 🗘 💷																				
ess Summary - Capital	Tracking		Process Sum	mary - Purchas	se Requests																						
O New	0 Due Soon 0 Ove	erdue	O Total	0 New	0 Due Soon		0 Overdue																				
Plan File Directory	Capital Plan File Management: View Plan File Direc (CapitalTracking) View Capital Tracking Projects.	tory	Plan File	irectory	(PurchaseR	n File Management: View F equests) ase Requests.	Plan File Directory																				
ate or Open Capital Projects	ital Tracking Project	Create o Purchase		Capital Plan File Management: Create or Open Purchase Request Purchase Requests will open in a new window.																							
py or Transfer Capital Projects	Capital Plan File Management: Copy or Transfer Ca Copy Capital Projects from one File Group to anoth You can also use this utility to transfer Capital Proje Planning File Groups to Capital Tracking.	er.	Launch Capital Transfer Utility		Capital Plan File Management: Launch the Capital Transfer Utility In this utility, you will be able to transfer funds between capital project																						
unch Capital Dashboard	Capital Reports: In this Dashboard, you will see a summary and analysis of your Capital Tracking process.		In this Dashboard, you will see a summary and analysis of your Capital		In this Dashboard, you will see a summary and analysis of your Capital		In this Dashboard, you will see a summary and analysis of your Capital		In this Dashboard, you will see a summary and analysis of your Capital		In this Dashboard, you will see a summary and analysis of your Capital		In this Dashboard, you will see a summary and analysis of your Capital		In this Dashboard, you will see a summary and analysis of your Capital		In this Dashboard, you will see a summary and analysis of your Capital		In this Dashboard, you will see a summary and analysis of your Capital		In this Dashboard, you will see a summary and analysis of your Capital		Launch Capi Summar		In this repor	orts: Launch the Capital Tr t, you will be able to view a sociated Purchase Reques	a summary of all Capital Tracking
Edit Drivers	Capital System Administration: Adjust the Capital Tracking File Gro Adjust the Drivers for your Capital Tracking File Gro Capital Planning installed, this will open the CP Nex	ng File Group. NOTE: if you have		ivers	Capital System Administration: Adj Adjust the Drivers for your Purchase																						
ansfer Capital Tracking jects to Rolling Forecast	Capital Integration: Transfer to Axiom Rolling Fore Transfer actual capital spent by quarter to Axiom Ri																										

2. From the Configuration tab, click Purchase Request LineItem Fields.

Configuration 🗸	Retrospective -				
General Setup					
Purchase Request	Header - Project Fie	ds			
Purchase Request	Header Fields				
Purchase Request	t LineItem Fields	←	Enable?		
Purchase Request	t Header Picklists		Enable:		
Purchase Request	t Lineltem Picklists	•	Never	•	
Field Names Table	e	•	Never	•	
Reason		•	Never	•	

- 3. In the **Description** column, type a name for the field.
- 4. In the Enable column, select one of the following:
 - To display the field in the template, click Always.
 - To hide the field in the template, click Never.
- 5. In the Required to Save column, do one of the following:

- To require users to complete the column before saving, click the toggle to Yes.
- To allow users to save without completing the field, click the toggle to No.
- 6. In the Input Format column, select the field format type to use.
- 7. After making your changes, in the upper right corner of the page, click **Save**.
- 8. At the confirmation prompt, click **OK**.

Configuring picklists for purchase request headers

Purchase request header picklists allow you to add additional user-validated fields for the purchase request template, and use them for grouping purchase requests for reporting and conditional workflow routing purposes. You can define up to ten separate picklists.

Config	uration 🔻	Retrospective 🗸								
Purchase Request Header Picklists Filegroup : PurchaseRequests				V	iew	All	•	Save	?	
Û	Description			Help Text						
	+ Add Tabl	e (0 of 10)								

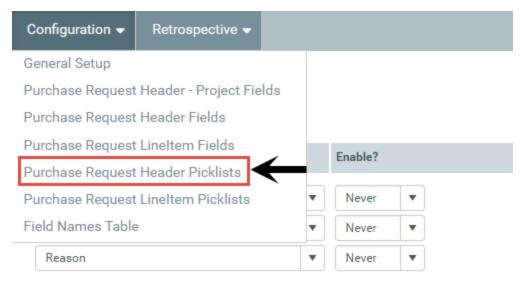
To configure picklists for purchase request headers:

1. From the Axiom Capital Tracking home page, click Edit Drivers.

NOTE: To access this location from the Cap Tracking Admin task pane, in the Administration section, double-click Purchase Request Drivers.

acking							III 🕫 🗘 🥥
cess Summary - Capit	al Tracking		Process Sum	mary - Purchas	se Requests		
O New	0 Due Soon	0 Overdue	O _{Total}	0 New		0 Due Soon	0 Overdue
Plan File Directory	Capital Plan File Management: View Plan File (CapitalTracking) View Capital Tracking Projects.	t Directory	Plan File	Directory	(Purchase	an File Management: View Pl Requests) hase Requests.	an File Directory
ite or Open Capital Projects	Capital Plan File Management: Create or Ope Capital Projects will open in a new window.	n Capital Tracking Project	Create o Purchase			an File Management: Create Requests will open in a new v	
copy or Transfer Capital Projecta	Capital Plan File Management: Copy or Tran Copy Capital Projects from one File Group to You can also use this utility to transfer Capita Planning File Groups to Capital Tracking.	another.	Launch Capital	Fransfer Utility		an File Management: Launch ity, you will be able to transfe	the Capital Transfer Utility r funds between capital projects.
aunch Capital Dashboard	Capital Reports: In this Dashboard, you will see a summary an Tracking procesa.	d analysis of your Capital	Launch Capi Summar		In this rep	ports: Launch the Capital Tra ort, you will be able to view a associated Purchase Request	summary of all Capital Tracking
Edit Drivers	Capital System Administration: Adjust the Cr Adjust the Drivers for your Capital Tracking F Capital Planning installed, this will open the C	ile Group. NOTE: if you have	Edit D	ivers		rstem Administration: Adjust Drivers for your Purchase Re	
ansfer Capital Tracking sjects to Rolling Forecast	Capital Integration: Transfer to Axiom Rolling Transfer actual capital spent by quarter to Ax						

2. From the Configuration tab, click Purchase Request Header Picklists.



3. Do any of the following:

- Add a picklist
 - a. Click + Add Table.

- b. In the Add Table dialog, in the Description Used field, type a name for the picklist.
- c. From the Enable Picklist drop-down, select one of the following:
 - To display the picklist in the template, select Always.
 - To hide the picklist from the template, select Never.
- d. Do one of the following:
 - To require the user to make a selection before saving the purchase request, click the toggle to Yes.
 - To allow the user to save the purchase request without making a selection, click the toggle to No.
- e. Click + Add a Selection.
- f. In the **Description** column, type a name for the picklist item.
- g. In the Help Text column, type a longer description or help text for the item.
- h. Repeat Steps e f for each item to include in the list.
- i. After you are done adding selections, click Add.
- j. At the confirmation prompt, click **OK**.
- Edit a picklist
 - a. In the **Description Used** field, update the picklist name.
 - b. From the Enable Picklist drop-down, select one of the following:
 - To display the picklist in the template, select Always.
 - To hide the picklist from the template, select Never.
 - c. Do one of the following:
 - To require the user to make a selection before saving the purchase request, click the toggle to Yes.
 - To allow the user to save the purchase request without making a selection, click the toggle to No.
 - d. Update the existing description and/or help text, or add a selection by clicking + Add a Selection.

Delete a picklist item

For each item to delete, next to the picklist name, click the delete check box.

- 4. After making your changes, in the upper right corner of the page, click **Save**.
- 5. At the confirmation prompt, click **OK**.

Configuring picklists for purchase request line items

Purchase request line item picklists allow you to add additional user-validated fields for each line item on the purchase request template. Users can select these fields to group purchase requests for reporting and conditional workflow routing purposes. You can define up to ten picklists.

Config	uration - Retrospective -						
	chase Request LineItem Picklis	sts	View	All	•	Save	?
Û	Description	Help Text					
	+ Add Table (1 of 10)						

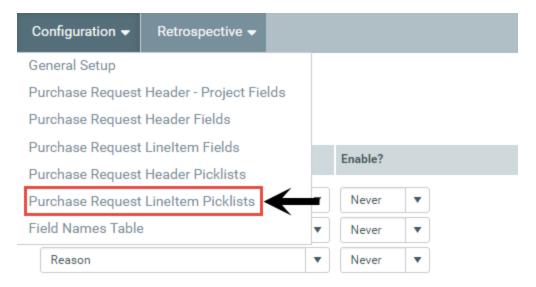
To configure picklists for purchase request headers:

1. From the Axiom Capital Tracking home page, click Edit Drivers.

NOTE: To access this location from the Cap Tracking Admin task pane, in the Administration section, double-click Purchase Request Drivers.

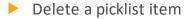
tal Tracking			III 🛷 🗘 💷	AXIOM
P.				☆?
Process Summary - Capital	Tanakian	Process Summary - Purchas	- Device to	
Process Summary - Capital	Tracking	Process Summary - Purchas	se Requests	
O New	0 Due Soon 0 Overdue	O New Total	0 Due Soon 0 Overdue	
Plan File Directory	Capital Plan File Management: View Plan File Directory (Capital Tracking) View Capital Tracking Projects.	Plan File Directory	Capital Plan File Management: View Plan File Directory (PurchaseRequests) View Purchase Requests.	
Create or Open Capital Projecta	Capital Plan File Management: Create or Open Capital Tracking Project Capital Projects will open in a new window.	Create or Open Purchase Requests	Capital Plan File Management: Create or Open Purchase Request Purchase Requests will open in a new window.	
Copy or Transfer Capital Projecta	Capital Plan File Management: Copy or Transfer Capital Projects Copy Capital Projects from one File Group to another. You can also with utility to transfer Capital Projects from Capital Planning File Groups to Capital Tracking.	Launch Capital Transfer Utility	Capital Plan File Management: Launch the Capital Transfer Utility In this utility, you will be able to transfer funda between capital projecta.	
Launch Capital Dashboard	Capital Reports: In this Dashboard, you will see a summary and analysis of your Capital Tracking process.	Launch Capital Tracking Summary Report	Capital Reports: Launch the Capital Tracking Summary Report In this report, you will be able to view a summary of all Capital Tracking and their associated Purchase Requests.	
Edit Drivers	Capital System Administration: Adjust the Capital Tracking Drivers Adjust the Drivers for your Capital Tracking File Group. NOTE: If you have Capital Flanning Installed, this will open the CP Next Year Drivers.	Edit Drivers	Capital System Administration: Adjust Purchase Request Drivers Adjust the Drivers for your Purchase Request File Group.	
Transfer Capital Tracking Projects to Rolling Forecast	Capital Integration: Transfer to Axiom Rolling Forecast Transfer actual capital apent by quarter to Axiom Rolling Forecast.			

2. From the Configuration tab, click Purchase Request LineItem Picklists.



- 3. Do any of the following:
 - Add a picklist
 - a. Click + Add Table.
 - b. In the Add Table dialog, in the Description Used field, type a name for the picklist.
 - c. From the Enable Picklist drop-down, select one of the following:
 - To display the picklist in the template, select Always.
 - To hide the picklist from the template, select Never.
 - d. Do one of the following:
 - To require the user to make a selection before saving the purchase request, click the toggle to Yes.
 - To allow the user to save the purchase request without making a selection, click the toggle to No.
 - e. Click + Add a Selection.
 - f. In the **Description** column, type a name for the picklist item.
 - g. In the Help Text column, type a longer description or help text for the item.
 - h. Repeat Steps e f for each item to include in the list.
 - i. After you are done adding selections, click Add.
 - j. At the confirmation prompt, click **OK**.

- Edit a picklist
 - a. In the Description Used field, update the picklist name.
 - b. From the Enable Picklist drop-down, select one of the following:
 - To display the picklist in the template, select Always.
 - To hide the picklist from the template, select Never.
 - c. Do one of the following:
 - To require the user to make a selection before saving the purchase request, click the toggle to Yes.
 - To allow the user to save the purchase request without making a selection, click the toggle to No.
 - d. Update the existing description and/or help text, or add a selection by clicking + Add a Selection.



For each item to delete, next to the picklist name, click the delete check box.

- 4. After making your changes, in the upper right corner of the page, click Save.
- 5. At the confirmation prompt, click **OK**.

Configuring field names

Use the Field Names Table driver to modify the description for the Purchase Request Header fields and Line Item fields.

Capital Tracking					
≡ 🗭 🗡					
Configuration -	Retrospective -				

Field Names Table

Filegroup : PurchaseRequests

Code	Description	Required for Save?
Purchase Reques	t Header Fields	
RequestDate	Request Date	No
DateNeeded	Date Needed (mm/dd/yyyy)	No
AttachNotes	Attachment Notes	No
RequestNotes	Request Notes	No
Vendor	Vendor	No
Department	Department	No
Line Item Fields		
FreightCharges	Freight Charges	No
ItemDesc	Item Description	No
PlanDate	Plan Date (mm/dd/yyyy)	No
Model	Model	No
Manufacturer	Manufacturer	No
CatNum	Catalog#	No
LINotes	Notes	No

To configure field names:

1. From the Axiom Capital Tracking home page, click Edit Drivers.

NOTE: To access this location from the Cap Tracking Admin task pane, in the Administration section, double-click Purchase Request Drivers.

2. From the Configuration tab, click Field Names Table.

Configuration 🗸	Retrospective 🗸				
General Setup					
Purchase Request	Header - Project Fie	elds			
Purchase Request	Header Fields				
Purchase Request LineItem Fields			Enable?		
Purchase Request	Purchase Request Header Picklists				
Purchase Request	Lineltem Picklists	•	Never	•	
Field Names Table	\rightarrow	•	Never	•	
Reason		•	Never	•	

- 3. In the **Description** field, type a name or description for the field.
- 4. In the **Required for Save** column, do one of the following:

- To require the user to complete the field before saving the purchase request, click the toggle to Yes.
- To allow the user to save the purchase request without completing the field, click the toggle to No.
- 5. After making your changes, in the upper right corner of the page, click the disk 🖹 icon to save your changes.
- 6. At the confirmation prompt, click **OK**.

Configuring questions for retrospective comprehensive updates

You can add, edit, or include/exclude optional questions used to capture narrative inputs for the retrospective project analysis comprehensive update. You can configure up to 30 questions, with a user entry of up to 2500 characters.

Configuration - Retrospective -			
Retro Comprehensive Update Questions Filegroup : PurchaseRequests			Save ?
Description	Required for Save?	Help Text	
Explain project highlights.	No		
Were there any scope changes? If yes, please explain.	No		
Describe in detail WHY and WHAT is causing any volume (favorable/unfavorable) variances.	No		
Describe in detail WHY and WHAT is causing any budget (favorable/unfavorable) variances.	No		
Describe in detail WHY and WHAT is causing the financial return (positive/negative) impact.	No		

To configure questions for retrospective comprehensive updates:

1. From the Axiom Capital Tracking home page, click Edit Drivers.

NOTE: To access this location from the Cap Tracking Admin task pane, in the Administration section, double-click Purchase Request Drivers.

:king			Ш « Д
Summary - Capital	Tracking	Process Summary - Purch	hase Requests
0 New	0 Due Soon 0 Overdue	O New Total	0 Due Soon 0 Overdue
lan File Directory	Capital Plan File Management: View Plan File Directory (Capital Tracking) View Capital Tracking Projecta.	Plan File Directory	Capital Plan File Management: View Plan File Directory (PurchaseRequests) View Purchase Requests.
or Open Capital Projects	Capital Plan File Management: Create or Open Capital Tracking Proj Capital Projects will open in a new window.	Create or Open Purchase Requests	Capital Plan File Management: Create or Open Purchase Request Purchase Requests will open in a new window.
or Transfer Capital Projects	Capital Plan File Management: Copy or Transfer Capital Projects Copy Capital Projects from one File Group to another. You can also this utility to transfer Capital Projects from Capital Planning File Groups to Capital Tracking.	Launch Capital Transfer Utility	Capital Plan File Management: Launch the Capital Transfer Utility In this utility, you will be able to transfer funds between capital projects
ch Capital Dashboard	Capital Reports: In this Dashboard, you will see a summary and analysis of your Capit Tracking process.	Launch Capital Tracking Summary Report	Capital Reports: Launch the Capital Tracking Summary Report In this report, you will be able to view a summary of all Capital Tracking and their associated Purchase Requests.
Edit Drivers	Capital System Administration: Adjust the Capital Tracking Drivers Adjust the Drivers for your Capital Tracking File Group. NOTE: If you Capital Planning installed, this will open the CP Next Year Drivers.	e Edit Drivers	Capital System Administration: Adjust Purchase Request Drivers Adjust the Drivers for your Purchase Request File Group.
efer Capital Tracking ta to Rolling Forecaat	Capital Integration: Transfer to Axiom Rolling Forecast Transfer actual capital spent by quarter to Axiom Rolling Forecast.		

2. From the Retrospective tab, click Retro Comprehensive Updates.



- 3. In the **Description** column, type the question.
- 4. In the Required to Save? column, do one of the following:
 - To require the user to answer the question before saving the purchase request, click the toggle to Yes.
 - To allow the user to save the purchase request without answering the question, click the toggle to No.
- 5. In the Help Text column, type further information to help the user answer the question.
- 6. After making your changes, in the upper right corner of the page, click **Save**.
- 7. At the confirmation prompt, click **OK**.

Configuring questions for retrospective status updates

You can add, edit, or include/exclude optional questions used to capture narrative inputs for the retrospective project analysis status update. You can configure up to 30 questions, with a user entry of up to 2500 characters.

Configuration - Retrospective -		
Retro Status Update Questions Filegroup : PurchaseRequests		Save ?
Description	Required for Save? Help Text	
Explain project highlights.	No	
Were there any scope changes? If yes, please explain.	No	
Describe in detail WHY and WHAT is causing any volume (favorable/unfavorable) variances.	No	
Describe in detail WHY and WHAT is causing any budget (favorable/unfavorable) variances.	No	
Describe in detail WHY and WHAT is causing the financial return (positive/negative) impact.	No	

To configure questions for retrospective status updates:

1. From the Axiom Capital Tracking home page, click Edit Drivers.

NOTE: To access this location from the Cap Tracking Admin task pane, in the Administration section, double-click Purchase Request Drivers.

acking			III & A (
ess Summary - Capital	Tracking	Process Summary - Purc	hase Requests
O New	0 Due Soon 0 Overdue	O New Total	0 Due Soon 0 Overdue
Plan File Directory	Capital Plan File Management: View Plan File Directory (CapitalTracking) View Capital Tracking Projects.	Plan File Directory	Capital Plan File Management: View Plan File Directory (PurchaseRequests) View Purchase Requests.
te or Open Capital Projects	Capital Plan File Management: Create or Open Capital Tracking Pr Capital Projects will open in a new window.	ct Create or Open Purchase Requests	Capital Plan File Management: Create or Open Purchase Request Purchase Requests will open in a new window.
opy or Transfer Capital Projecte	Capital Plan File Management: Copy or Transfer Capital Projects Copy Capital Projects from one File Group to another. You can also with suffly to transfer Capital Projects from Capit Planning File Groups to Capital Tracking.	Launch Capital Transfer Utility	Capital Plan File Management: Launch the Capital Transfer Utility In this utility, you will be able to transfer funda between capital projects.
unch Capital Dashboard	Capital Reports: In this Dashboard, you will see a summary and analysis of your Ca Tracking process.	Launch Capital Tracking Summary Report	Cepital Reports: Launch the Capital Tracking Summary Report In this report, you will be able to view a summary of all Capital Tracking and their associated Purchase Requests.
Edit Drivers	Capital System Administration: Adjust the Capital Tracking Driver Adjust the Drivers for your Capital Tracking File Group. NOTE: If yo Capital Planning Installed, this will open the CP Next Year Drivers.	ave Edit Drivers	Capital System Administration: Adjust Purchase Request Drivers Adjust the Drivers for your Purchase Request File Group.
ansfer Capital Tracking jects to Rolling Forecast	Capital Integration: Transfer to Axiom Rolling Forecast Transfer actual capital spent by quarter to Axiom Rolling Forecast		

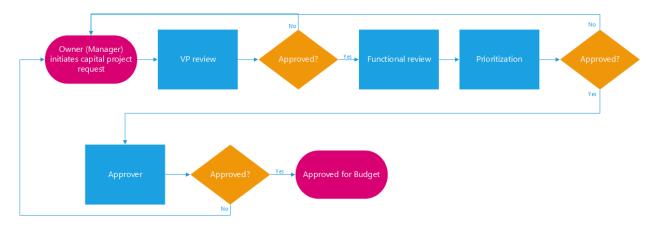
2. From the Retrospective tab, click Retro Status Updates.

Configuration -	Retrospective -	
	Retro Comprehensive Updates	
	Retro Status Updates]←

- 3. In the **Description** column, type the question.
- 4. In the Required to Save? column, do one of the following:
 - To require the user to answer the question before saving the purchase request, click the toggle to Yes.
 - To allow the user to save the purchase request without answering the question, click the toggle to No.
- 5. In the Help Text column, type further information to help the user answer the question.
- 6. After making your changes, in the upper right corner of the page, click **Save**.
- 7. At the confirmation prompt, click **OK**.

Configuring and Managing Processes and Process Flow

Most of the functionality in Axiom Capital Tracking revolves around the process of tracking and monitoring capital projects. While the exact steps in the process may be customized to suit your organization's preferences, the general workflow is as follows:



- 1. The capital project requestor (typically a department manager or director) enters a capital project request. Anyone with access to Axiom Capital Planning or Axiom Capital Tracking can create a capital request.
- 2. The VP reviews the request, and approves or declines it. If declined, the Owner can make changes and resubmit to the VP for approval.
- 3. After approved by the VP, the request is reviewed by various stakeholders (IT, Facilities, Clinical Engineering) for comments and feedback.
- 4. After reviews are complete, the capital committee and/or designated approver(s), prioritize and approve the capital requests.

The Process Management feature in Axiom Capital Planning automates much of these processes by running certain back-end tasks automatically and notifying users involved in the process when their intervention is required.

For instance, when a new capital budgeting year begins, Process Management can notify all managers/budget owners to submit capital project requests, and then compile all the submitted requests into reports, and notify executives to review them.

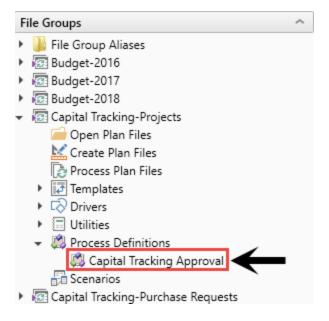
Axiom Capital Tracking comes with a predefined processes, but you may also design your own.

Viewing the Capital Tracking Approval pre-defined process

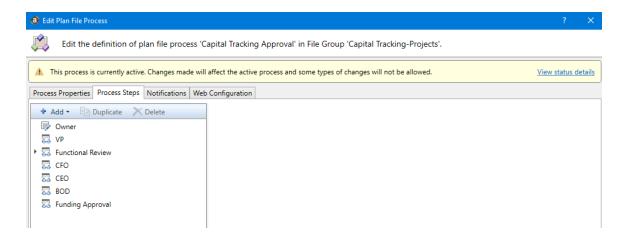
There are two file groups in Axiom Capital Tracking, one containing the Capital Plan files, and the other to store the Purchase Request plan files. Both file groups in Axiom Capital Tracking have Approval processes that come pre-defined. You can use these processes as-is or make the changes to meet your organization's needs. Your Kaufman Hall Consultant can help you with any questions you may have regarding any modifications you may desire.

To view the Capital Tracking Approval pre-defined process:

1. In the Explorer task pane, in the File Groups section, click Capital Tracking-Projects > Process Definitions > Capital Tracking Approval.



2. To view the process steps, click the Process Steps tab.



As initially configured, the steps for the Capital Tracking Approval pre-defined process include the following:

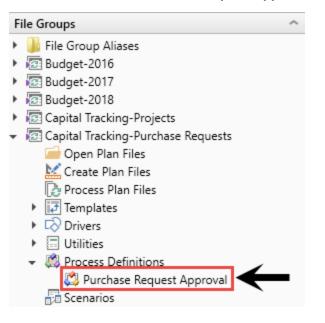
Step	Description
Owner	This is the first step in the process. Stamps all capital requests with a creator for the request, also referred to as the project initiator.
VP	Notifies VPs to review and comment on all capital project requests submitted by their team members, as defined by their organizational chart in the Department table.
Functional Review	 This is a sub process that includes the following steps: IT – Designated IT reviewers review, comment, and update costs associated with any IT related requests, as needed. Clinical – Designated clinical reviewers review, comment, and update costs associated with any clinical-related requests, as needed. Facilities – Designated facilities reviewers review, comment, and update costs associated with any facilities-related requests, as needed. Legal – Designated facilities reviewers review, comment, and update costs associated with any legal-related requests, as needed. HR – Designated facilities reviewers review, comment, and update costs associated with any HR-related requests, as needed.
CFO	Notifies the CFO to review and comment on the funding of this capital project.
CEO	Notifies the CEO to review and comment on the funding of this capital project.
BOD	Notifies the Board of Director to review and comment on the funding of this capital project. Typically, the Capital Tracking Administrator awaits for the funding approval to occur at the Board level.
Funding Approval	After the project moves to this stage, it has been approved for funding. The Capital Tracking Administrator should then ensure that the project has the correct ProjectID assigned and the Adjusted Budget is correct.

Viewing the Purchase Request Approval pre-defined process

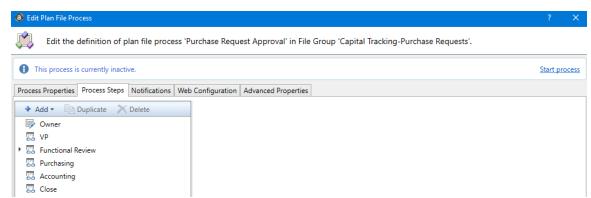
If your organization has chosen to use Axiom for its Capital Purchase Requests process, your organization will need to define its workflow and approval process. If your organization has chosen not to use Axiom's Purchase Request Approval process, you can ignore this step.

To view the Purchase Request Approval pre-defined process:

 In the Explorer task pane, in the File Groups section, click Capital Tracking-Purchase Requests > Process Definitions > Purchase Request Approval.



2. To view the process steps, click the Process Steps tab.



As initially configured, the steps for the Purchase Request Approval pre-defined process include the following:

Step	Description
Owner	The owner is typically the owner (sponsor) of the approved Capital Project. Once the project has been approved for funding AND has an authorized budget, the Owner of the project can start inputting purchase requests against the project.
VP	The VP is typically the Vice President of the owner requesting the funds.
Functional Review	This is a sub process that includes the following steps:
	 IT – Designated IT reviewers review and comment on IT-related requests.
	 Clinical – Designated clinical reviewers review and comment on clinical-related requests.
	 Facilities – Designated facilities reviewers review and comment on facilities-related requests.
	 Legal – Designated legal reviewers review and comment on legal-related requests.
	 HR – Designated human resources reviewers review and comment on human resources-related requests.
Purchasing	Your organization's buyers review the request and get appropriate bids and documentation.
Accounting	Your organization's accounting staff approves the request and ensures that the proper accounts have been chosen.
Close	At this step, the Purchase Request has been approved and can be considered closed.

Activating and managing active processes

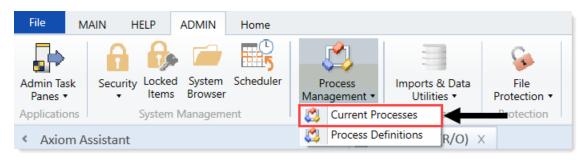
When a process is activated, the steps run in sequence. If email notifications are generated (per the Process Properties settings), users receive an email whenever an action is required on their part, including links to any files they need to perform an action upon.

After creating process definitions, administrators and process owners can perform tasks such as starting or stopping a process, viewing overall process status and process history, and managing step status.

IMPORTANT: If you stop the process, all projects currently in the process flow will return to the first step when the process is reactivated.

You can perform management tasks from the following locations:

 On the Admin ribbon tab, in the Workflow group, click Process Management > Current Processes.



• From the My Files and Tasks task pane, click View status (only available for active processes).

You can also start processes and access process details from within the process definition itself.

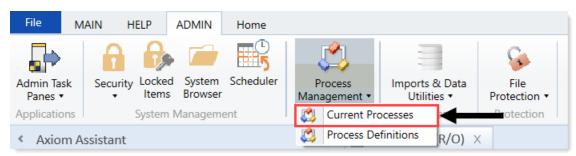
Viewing process status and comments

Administrators can view the status of all processes at any time. They can view a summary of process status and details for each individual process. Any comments added by users when completing steps also display in these details. Designated process owners can also view the status of processes that they own. Process flow comments can be seen using the Process Flow Routing slip.

Process status summary

The Process Manager dialog shows key information for processes at a glance, such as the current state of the process and the current step of the process. To access this dialog:

• On the Admin ribbon tab, in the Workflow group, click Process Management > Current Processes.



By default, this dialog shows active processes only. To see all of the processes, click **Show inactive processes**. The details displayed are for the most recent instance of the process (the current process).

Manage current pro	cesses and process histor	у.	
urrent Processes 🗌 Sh	ow inactive processes	🔛 View Details 🥒	Edit Process 🕨 Start 👋 St
Process Name	Process State	Current Step	Error Details
Budget Process	Active	N/A	
Capital Request Approval	Active	N/A	
Monthly Updates	Active	3 - Run tie out report	
Monthly Updates	pdates		🔜 View Details 🗙 Del
Monthly Updates ocess History: Monthly U Process State	pdates Started On:	Ended On	Process Definition ID
Monthly Updates	pdates		
Monthly Updates ocess History: Monthly U Process State	pdates Started On:	Ended On	Process Definition ID
Monthly Updates ocess History: Monthly U Process State Aborted	pdates Started On: 5/6/2015	Ended On 5/13/2015	Process Definition ID 7152

From here, you can perform actions such as viewing the process details, editing the process definition, and starting and stopping the process. You can also view process history.

NOTE: For administrators, this dialog shows all processes. For process owners, the dialog only shows processes that the user owns.

Viewing individual process details

To view the details of a specific process from the Process Manager dialog, select the process in the list, and click **View Details**. Alternatively, administrators and process owners can view the details of an active process by clicking the **View status** link in the My Files and Tasks task pane (or in the process definition).

In the **Process Status** dialog, you can view all of the information about the process, including the:

- Status of each individual step, whether it is completed, active, or not yet started.
- Properties of each individual step, including step type, assigned owner, due date, and any associated file or feature.
- Details of all step activity, such as when it was made active, when it was completed (and by whom), and any comments associated with the activity.

You can also perform administrative activities for the process from this dialog, such as stopping the process, performing step actions, completing steps (overriding step ownership), and regenerating stalled steps.

Fixing common process issues

While a process is active, administrators and process owners may need to address common process issues such as:

- Regenerating tasks for a stalled step.
- Regenerating tasks to reflect changes in the process assignments or security.
- Restarting a Scheduler Process Step.

You can perform all of these actions in the **Process Status** dialog, which you can access by clicking **View status** for the process in the My Files and Tasks task pane. The process definition also contains a link to open this dialog.

Regenerating tasks for a stalled step

If an issue occurs that prevents a step from becoming active, the step stalls in the process, and the process cannot continue.

Axiom Capital Tracking attempts to reactivate the step, which causes any associated tasks to regenerate. If the task generation is successful, the step is made active, and the process can continue as normal.

NOTE: If instead the step needs a different owner, then you can edit the process definition to assign a different user. When you save the change to the process definition, the task for that step automatically regenerates for the new owner, and the error state is removed.

For plan file processes, the process can stall on a per-item basis. For example, if one plan file has an invalid owner for step 2, then the entire process does not stall—only the plan file with the invalid owner stalls.

Regenerating tasks to reflect process or security changes

In certain cases, you may need to regenerate tasks for an active step to incorporate changes made to the process assignments or to security. For example:

- If the owner assignment is an assignment column or an assignment workbook, and the assignments in the column or workbook has changed since the step became active.
- If the owner assignment is a role, and the members of the role has changed since the step became active.
- If security permission changes have been made that affects the ownership of the active step.

NOTE: It is not necessary to manually regenerate tasks if you change the assignment *type* for a step (for example, from user to assignment column), or change the specifically assigned user or role. In these cases, the tasks are regenerated automatically when you save the change to the process definition. In the examples listed above, the process is not aware of the changes made outside of the process definition, so the process does not know to automatically regenerate the tasks.

To regenerate tasks for a step in the Process Status dialog, select the step, and click Regenerate tasks.

Scheduler prompts you that all current tasks for the step will be deleted and new tasks will be created. Click **OK** to continue.

NOTE: For plan file processes, you can regenerate tasks on a per-item basis. You must select the items for which you want to regenerate tasks before clicking the **Regenerate tasks** button.

Starting or stopping a process

A process is only managed by the system if it has been started. After a process starts, it remains active until it is completed or stopped.

NOTE: Only administrators or process owners can start or stop a process.

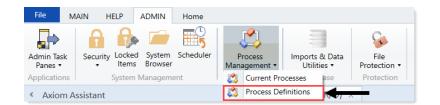
Starting a process

After you complete a process definition and you are ready to work on the process, you can start it. When you start a process, Axiom Capital Tracking does the following:

- Creates a unique process instance to track the process steps and store the process details. Each activation of a particular process definition is stored separately so that you can always see the historical details.
- Activates the first step in the process, and creates one or more tasks as appropriate.
- Displays the activated process in the Process task pane. Administrators can see every activated process; other users only see the process if they are the process owner or if they have a task for the currently active step.

To start a process:

1. On the Admin ribbon tab, in the Workflow group, click Process Management > Process Definitions.



2. In the **Axiom Explorer**, double-click the process definition to start, and click **Start Process** in the top right corner of the dialog.

Edit Plan File Process	?	×
Edit the definition of plan file process 'Capital Tracking Approval' in File Group 'Capital Tracking-Projects'.		
1 This process is currently inactive.	Start pre	<u>ocess</u>
Process Properties Process Steps Notifications Web Configuration Advanced Properties		
Process Name Capital Tracking Approval		
Display Name Capital Tracking Approval		
Description		

NOTE: You cannot start the process definition if it contains any missing or invalid settings. These validation errors display at the bottom of the dialog, if present. Click the link to go to the tab or step that contains the error. After you resolve all of the errors, you can start the process.

3. At the confirmation prompt, click **OK**.

The process is now active. After activating a process, you can track its progress using the Process Manager (Process Management > Current Processes) or by clicking the View status link in the task pane.

You can start processes from the Process Manager dialog, and when viewing the historical details of a process.

Stopping a process

When you stop a process, all current tasks are deleted, and the process status changes from Active to Aborted.

IMPORTANT: If you restart the process definition later, a new process instance is created, and the process starts over from the first step. There is no way to restart a particular process instance at the step it was on when it stopped.

To stop a process:

1. From the **Process** task pane, click **View status** for the applicable process.

- 2. In the Process Status dialog, click Stop Process in the top right corner of the dialog.
- 3. At the confirmation prompt, click **OK**.

You can also stop processes using the Process Manager in the Admin ribbon tab (Process Management > Current Processes).

Completing a process

A process is automatically completed if all the steps in the process are complete. After a particular process instance is completed, that same instance cannot be restarted—if the process definition is later restarted, a new process instance is created, and the process starts over from the first step.

Axiom Capital Tracking saves the process details for each activated instance of a process. Administrators and process owners can always go back and view the available history. For more information on viewing process history, see Viewing process history.

Creating or modifying a process definition

Use process definitions to define the set of steps to be managed and tracked as part of a process, including step order, ownership, associated actions, and due dates.

Process definitions are stored in one of two locations: the Process Definition Library or within a file group. Access to the definitions is controlled by the file security settings on the Files tab of security.

Only users who need to create and modify the process definitions need access to these files. Users who are assigned to perform individual steps in the process do not need access to the definition to perform the task or to view the process status.

NOTE: This topic discusses how to create a standard process definition. Standard process definitions and plan file process definitions share the same basic settings, but plan file process definitions are dedicated to plan file process steps, and also support additional features that are unique to plan file processes. For more details on process vs. plan file processes, see the *Axiom Software Process Management Guide*.

Process definitions are typically created by administrators, or other power users who are responsible for administrating parts of the system. The creator of the process definition needs to understand all of the steps of the process, who needs to perform each step, and when that step needs to be performed.

Process definitions do not have any impact on the system until they are activated.

To create or modify a process definition:

1. In the Axiom Explorer dialog, right-click the Process Definition Library (or a file group Process Definition folder), and click New > Process Definition.

NOTE: If you have permission to one or more Process Definition folders for file groups, you can also create process definitions within those folders.

The **Edit Process** dialog opens. As you are working in this dialog, any validation errors for missing or invalid settings display at the bottom of the dialog. You can save the process definition with configuration errors, however, you cannot start the process until all configuration errors are resolved.

2. In the Process Properties tab, complete the general process settings, as desired.

Option	Description
Process Name	The name of the process. This name displays in the Process Status dialog as well as in the My Files and Tasks task pane.
	This name also defines the name of the file in the Process Definitions Library (and vice versa; if the file name is changed, the process name is updated to match).
Display Name	The name of the process that displays to users.
Description	Optional. The description of the process definition. This description displays in the Process Status dialog.
Process Owner	The owner of the process. By default, this is set to the user who created the process definition, but it can be changed to another user.
	The process owner receives all administrative notifications for the process and can perform all administrative actions for the process (such as starting and stopping the process, overriding task ownership to mark steps as complete, and so on).
Allow step owners to see	Specifies whether the assigned step owners can see all of the steps in the process when they interact with tasks in the Process task pane.
all steps in the process task pane	By default, this option is disabled, which means that step owners only have access to Task View in the My Files and Tasks task pane, which shows the currently active task. If this option is enabled, then step owners gain access to Process View , which shows all of the steps in the process. Users can toggle between each view.
	This setting is only applicable to non-administrator step owners. Administrators and process owners can always see all of the steps of any process.
Default Process Assignment	The user assigned as the default step owner if no specific user assignment is made for a particular step. The default assignment only applies to steps where the Assignment Type is set to User.

- 3. In the Process Steps tab, define the steps for the process.
 - To add a step, click Add, and select the type of step to add. New steps are added after the step that you currently have selected in the list. For details regarding the available options, see Process Step types.
 - To add a new step by copying an existing step, select the step, and click Duplicate.
 - To remove a step, select that step, and click **Delete**. If the deleted step has child steps, those steps are removed as well.
 - To change the order of steps, you can drag and drop them to different locations in the list.
 - To copy a step, select the step, and click **Duplicate**. You can then modify the copied step as needed, and move it to the desired location in the list.

Steps are performed in the order listed. By default, steps are dependent and sequential—meaning that each step in the list must be completed before the next step can be done.

After you add a step to the process, you can configure the settings for that step in the right pane. This includes the display text for the step, the step ownership and due date, and other properties specific to the step type. You can also configure step-specific notification settings.

TIP: In most cases, you should configure the process-level notification settings on the **Notifications** tab before configuring any step-level notification settings. This way the steps can access the inherited process-level settings.

- 4. In the **Notifications** tab, complete the notification settings for the process. You can enable or disable notifications for the process, define the default notification delivery method, and define default notifications to apply to the steps in the process.
- 5. Click **Apply** to save (or **OK** if you are finished editing).

Copying an existing process definition

You can create a new process definition by copying an existing definition. To do this, use normal Axiom Explorer functionality:

- Right-click the definition file in the Process Definition Library, then select Copy.
- To paste a copy of the file, click Paste. The new file is named OriginalFileName Copy.
- Rename the file, then open the file and change the process definition settings, as desired.

NOTE: This step is required for the annual rollforward process.

Process Step types

Process Management supports various step types to be used for different purposes. This section details the available step types for general processes and the type-specific settings.

Approval Process step

Use the Approval Process step for steps that need the explicit approval of a user to move forward with the process.

Step-specific settings

Approval Process steps in standard processes do not have any unique step settings. Only the general step settings apply.

Process behavior

When the Approval Process step is the active step, the step owner has the following options:

- Approve the process to move to the next step.
- **Reject** the process to return to the prior step.

The Approval Process step is the only step type where an administrator can move the step to any part of the process. Users can only move steps one forward or back.

File Group Process step

Use the File Group Process step for steps where you need the user to perform some kind of action on a file group.

NOTE: This step type is for performing actions on a file group as part of a larger process. If instead you want to manage plan files through a planning process, use a *plan file process*.

Step-specific settings

When configuring a File Group Process step, complete the following settings in addition to the general step settings:

Item	Description
File Group Source	 Specify the source of the file group for this step: Selected File Group: Select an existing file group on which to perform an action. Previous Process Step: The file group for this action is created in a previous process step. Select the step in the process where this file group is created.
	For example, imagine a process where step 1 clones a file group to create a new file group, and then step 2 creates plan files for the new file group. In step 1, use Selected File Group to specify the existing file group to clone. In step 2, use Previous Process Step to specify the file group that was created in step 1.
	This step does not apply if the process definition is associated with a particular file group. In that case, the current file group is assumed.

Item	Description
Selected File Group	The file group for the step. Click the Select button to select an existing file group. This option is only available if File Group Source is set to Selected File Group.
	This step does not apply if the process definition is associated with a particular file group. In that case, the current file group is assumed.
Selected Process Step	The previous step in the process where the file group for this step is created. This option is only available if File Group Source is set to Previous Process step. For more information, see Using the result of a previous step.
	Click the Select button to select the step. Only steps that meet the following criteria are eligible for selection:
	Must precede the current step.
	Must create a file group using the Clone File Group action.
	This step does not apply if the process definition is associated with a particular file group. In that case, the current file group is assumed.
Selected Action	The action to perform on the file group:
	 Open Plan Files—If the user has one available plan file in the file group, that plan file opens. Otherwise, the Open Plan Files dialog opens, showing the user's available plan files.
	 Create Plan Files—Opens the Create Plan Files dialog with no special setup; the user needs to configure it as needed to complete the step.
	NOTE: If the file group is an on-demand file group, then this action behaves like the Add new file link in the Open Plan Files dialog. The user can click the link to create a new on-demand plan file.
	 Clone File Group—Opens the Clone File Group dialog with no special setup; the user needs to configure it as needed to complete the step.
	 Edit File Group—Opens the Edit File Group dialog with no special setup; the user needs to configure it as needed to complete the step.
	 Process Plan Files—Opens the Process Plan Files dialog with no special setup; the user needs to configure it as needed to complete the step.
	The display text and/or description for the step should make it clear to the user what they are expected to do to consider the step complete.

NOTE: The assigned user for the step must have the appropriate security permissions to access the file group and perform the designated action. The File Group Process step does not grant any permissions or elevate any existing permissions.

Process behavior

When the File Group Process step is the active step, the step owner has two actions available in the Process task pane:

- <Action>: The user can click the action link to open a file or perform the action associated with this step. The text of the action and what it does depends on the selected action for the step. For example, if the selected action is Process Plan Files, then the link text is Process Plan Files and clicking it opens the Process Plan Files dialog for the file group.
- Mark step as complete: The user can click this link to complete the active task.

Generic Process step

Use the Generic Process step for any step that is not covered by the other step types. This step type has no special behaviors and is not associated with any particular feature in Axiom Capital Tracking.

You might use this step for:

- A task that a user needs to compete outside of Axiom Capital Tracking.
- A task that uses an Axiom Capital Tracking feature for which there is no specific step type.

Step-specific settings

Generic Process steps do not have any unique settings. Only the general step settings apply.

Process behavior

When the Generic Process step is the active step, the step owner can use **Mark step as complete** in the Process task pane to complete the step.

You cannot associate this step with an action; the assigned user needs to perform the task on their own. It is important to define the display text and description clearly so that the user understands what they need to do to consider the step complete.

Import Process step

Use the Import Process step for steps where you need a user to access an import utility in Axiom Capital Tracking, whether to edit the import settings and/or execute the import.

Step-specific settings

When configuring an Import Process step, complete the following setting in addition to the general step settings:

Item	Description
Selected Import	The import utility to associate with this step. Click the folder icon to select the import.

NOTE: The assigned user for the step must have the appropriate security permissions to access the import and perform the desired action. The Import Process step does not grant any permissions or elevate any existing permissions.

Process behavior

When the Import Process step is the active step, the step owner has two actions available in the Process task pane:

- **Open import**: The user can click this link to access the import according to their security permissions. The step name and/or description should make it clear to the user what they are expected to do with the import.
- Mark step as complete: The user can click this link to complete the active task.

Multiple Approvals Process step

Use the Multiple Approvals Process step when you want multiple users to approve a process concurrently instead of sequentially. The difference in approach is as follows:

- For sequential approvals, use several Approval Process steps in a sequential order. Only one approval step is active at a time, and that step must be completed before the process moves to the next approval step.
- For concurrent approvals, use a Multiple Approvals Process step with two or more Approval Process steps as sub-steps. When the parent Multiple Approvals Process step becomes active, then all approval sub-steps become active concurrently. All of the sub-steps must be completed before the process moves to the next step.

Step-specific settings

The only available step settings for Multiple Approvals Process steps are display text and description. These steps do not have owner assignments or due dates. Owner assignments and due dates are defined individually for each sub-step.

Sub-steps of a Multiple Approvals Process step

A Multiple Approvals Process step must have two or more sub-steps. The sub-steps can only be Approval Process steps.

Process behavior

When the Multiple Approvals Process step is the active step, then all of its approval sub-steps are also made active. Owners of the approval sub-steps can complete their steps as appropriate without any dependencies on the other sub-steps. When *all* sub-steps are approved by their owners, then the

Multiple Approvals Process step is automatically marked as complete, and the process moves on to the next step. If *any* of the sub-steps are rejected, however, then the entire step is rejected, and the process is moved back to the step immediately before the Multiple Approvals Process step.

Restrictions and limitations

When an owner of a sub-step in a Multiple Approvals Process step completes a step, the previous and next steps shown in the Process Action dialog are the top-level steps before and after the Multiple Approvals Process step. The other sub-steps do not have an order and therefore are not shown in relation to the step being approved or rejected.

Report Process step

Use the Report Process step for steps where you need a user to run a report in Axiom Capital Tracking. For example, you may want a user to run a report for any of the following reasons:

- Verify data before moving on in the process.
- Run a save-to-database report utility.
- Distribute report packages using File Processing features.
- Process alerts.

Step-specific settings

When configuring a Report Process step, complete the following settings in addition to the general step settings:

Item	Description
Selected Report	The report to associate with this step. Click the folder icon to select a file in the Reports Library.
Open Form As	 If the report is form-enabled, then you can specify how the file is opened when the user opens it from the Process task pane: Form in the client(default) Form in web browser Spreadsheet This option only displays if the selected report is form-enabled. NOTE: When using the Axiom Excel Client with Excel 2013 or 2016, Axiom forms always opens in the user's browser instead of within the application, regardless of this setting.

NOTE: The assigned user for the step must have the appropriate security permissions to access the report and perform the desired action (such as Allow Save Data to perform a save-to-database). The Report Process step does not grant any permissions or elevate any existing permissions.

Process behavior

When the Report Process step is the active step, the step owner has two actions available in the Process task pane:

- **Open report**: The user can click this link to access the report according to their security permissions. The step name and/or description should make it clear to the user what they are expected to do with the report.
- Mark step as complete: The user clicks this link to complete the active task.

Scheduler Process step

Use the Scheduler Process step for steps where you want to run a Scheduler job as part of the process. Unlike other step types, the Scheduler Process step is an automated step, meaning that no user intervention is required to run the Scheduler job or to complete the step (assuming no errors occur).

Step-specific settings

When configuring a Scheduler Process step, complete the following settings in addition to the general step settings:

Item	Description
Selected Scheduler Job	The Scheduler job to associate with this step. Click the folder icon to select the job.

Although the step is automated, you must still specify an assigned user for the step. The job runs using the permissions of the assigned user. The assigned user is not required to have any access to Scheduler or to the specified job, although ideally the user has this level of permissions to troubleshoot the job results if any errors occur.

Process behavior

When the Scheduler Process step is made active, Axiom Capital Tracking automatically places the job in the Scheduler queue for immediate processing (pending Scheduler thread availability). If the processing completes successfully, the step is automatically marked as complete, and the process continues to the next step. Any notifications defined in the job are honored; no additional notifications are sent.

If the job experiences any errors, or if Axiom Capital Tracking is unable to schedule the job for some reason, then the step is effectively stalled. Unlike other stalled steps, however, if this occurs the assigned user has several options available in the Process task pane to attempt to resolve the issue:

• View job results: The user can view the job results to troubleshoot the issue. Note that the user, however, must have the Scheduled Jobs User permission and at least read-only access to the job to view the job results.

- **Restart scheduled job**: This option places the job in the Scheduler queue to run again. This assumes that the error was the result of some temporary issue that no longer applies, or that the underlying issue has been addressed and the job is now expected to complete without error.
- Mark step as complete: Use this option to ignore the job error and manually complete the step. This may be appropriate for situations where the job completed with partial success that is sufficient to consider the step complete, or for cases where the step owner or an administrator ran the Scheduler job or related utility manually as part of troubleshooting the original issue, so the job does not need to run again as part of processing this step.

Table Process step

Use the Table Process step for steps where you need a user to perform some kind of administrative action on a table.

Step-specific settings

When configuring a Table Process step, complete the following settings in addition to the general step settings:

Item	Description
Selected Table	The table on which to perform the designated action. Click the folder icon to select a table.
Selected Action	 The action to perform on the table: Clone Table Edit Table Data (meaning Open Table in Spreadsheet) Edit Table Structure In all cases, the assigned user can open the associated dialog from the Process task pane when the step is active. The display text and/or description for the step should make it clear to the user what they are expected to do to consider the step complete. If Edit Table Data is the selected action, then you can optionally define a Data Filter and/or a Row Limit for the task.
Data Filter	Optional. Define a data filter to limit the data to be displayed in Open Table in Spreadsheet. Use the Filter Wizard To create the filter criteria statement. This setting only applies if Edit Table Data is the selected action.
Row Limit	Optional. Type a number to limit the number of rows to be displayed in Open Table in Spreadsheet. This setting only applies if Edit Table Data is the selected action.

NOTE: The assigned user for the step must have the appropriate security permissions to access the table and perform the designated action. The Table Process step does not grant any permissions or elevate any existing permissions.

Process behavior

When the Table Process step is the active step, the step owner has two actions available in the Process task pane:

- <Action>: The user can click the action link to open a table or perform the action associated with this step. The text of the action and what it does depends on the Selected Action for the step. For example, if the Selected Action is Clone Table, then the link text is Clone Table and clicking it opens the Create Table dialog for table cloning.
- Mark step as complete: The user can click this link to complete the active task.

Assigning owners to process steps (general processes)

Each step in a general process definition must have a defined owner to perform that step and mark it as complete. The assigned step owner can be a user or a role.

When a step is made active, the assigned owner is notified that they have a task to complete in the process (if notifications are enabled for the process and for the step). The owner can view the active task in the Process task pane, perform actions associated with the task, and mark the step as complete.

This topic discusses step ownership options for general process definitions. Plan file process definitions have additional options to assign step ownership, so that each plan file can be assigned a different owner for each step. For more information, see Assigning owners to plan files for process steps.

Assigning owners to individual steps

Step owners are assigned on the **Process Steps** tab. Select the step for which you want to assign ownership, then use the **Assignment Type** field to select the ownership type.

Assignment Configuration					
Assignment Type User 🔹 🔫					
Assigned User	Wendy Hunter (whunter)	1	×		
🔯 Due Date	3 days after the process is started	1	×		

For steps in general process definitions, the assigned owner can be a user or a role:

Assignment Type	Description			
User	Assign a specific user as the owner of the step. When the step becomes active, a process task will be generated for the user to complete the step.			
	If this option is selected, then click the Edit 🥓 button to the right of the Assigned User field to select a user. You can select any user in Axiom Capital Tracking.			
	If most or all of the steps in your process use the same owner, you can choose to set a default owner at the process level. If you do this, then you can leave the Assigned User at the step level blank, and that step is automatically assigned to the default owner.			
Role	Assign a role as the owner of the step. When the step becomes active, a process task will be generated for all users in that role, and any of those users can complete the step.			
	If this option is selected, then click the Edit 🥜 button to the right of the Assigned Role field to select a role. You can select any role in Axiom Capital Tracking.			

Steps with sub-steps do not have assigned owners on the parent step itself. Instead, owners are assigned for each individual sub-step.

Until a process is active, you can edit step ownership settings as desired. After a process is active, you can edit ownership settings for any step that is not already completed. If you change the ownership settings of an active step, new tasks are regenerated as needed to reflect the new settings, including sending new Step Activated notifications (if enabled for the process).

Defining a default user assignment for the process

If desired, you can specify a default user assignment at the process level. This user will apply to any step that uses the assignment type of User but does not have an explicitly assigned user. This option is useful when you have a process where most or all of the steps are performed by the same user.

The default user assignment can be set on the Process Properties tab, as the Default Process Assignment.

onfiguration Properties			
Allow step owners to see a	all steps in the process vant step owners to be able to see all process steps in the Process task pane. By default, ste	p owner	rs can
only see their current step		F	

If an individual step is set to User as the Assignment Type, but no user has been specified, then the step uses the default assignment. This is indicated in the step properties as follows:

📧 Assigned User	<using assignment="" default="" process=""></using>		×
🔯 Due Date	7/12/2013	1	\times

After a process has started, the default process assignment cannot be changed. You can, however, still change the owner of any individual steps that have not yet been completed.

Step ownership and security permissions

For steps in a general process definition, step ownership only grants the ability to mark the step as completed in the process. It does not grant the user the necessary security permissions to perform any associated action for the step, and it does not prevent any other user from performing that associated action. When assigning owners to process steps, be sure that the owner has the appropriate security permissions to perform the associated task for the step.

For example, imagine that the step is "Import actuals data" and the step is linked to the GLActuals import utility. If the user has permission to execute that import (as defined in security), then the user can click **Open import** for the task in the Process task pane to execute that import. If the user does not have permission to execute the import, however, then being the step owner does not grant them the permission. Additionally, if other users have security permissions to execute that import, they can still do so.

Using the result of a previous step

You can configure a step in a process definition to perform an action on the result of a previous step. This supports processes where an item is created in one step and then you want to perform one or more actions on this newly created item.

Currently, this configuration is only supported for processes that use a File Group Process Step with the Clone File Group action. This is the only step type that officially creates a new item in Axiom Capital Tracking. Although you can use other process steps to direct step owners to create any kind of item, the creation is not an official step action and is not tracked by the process.

The typical use case for this configuration is for a rollover process. For example:

- Step 1 uses the Clone File Group action to create a new file group for the new cycle of planning.
- Step 2 creates the plan files for the new file group that was created in Step 1.
- Step 3 processes the plan files for the new file group that was created in Step 1.

For Step 1, you would point the step to an existing file group such as Budget 2020. When the process is activated, the step owner performs the cloning process, and creates a new file group such as Budget 2021. However when setting up the process definition, you cannot point Step 2 to the Budget 2021 file group because it is not created yet. Instead, you configure Steps 2 and 3 to use the result of Step 1.

Configuring a step to use the result of a previous step

When defining a File Group Process step, do the following to use the result of a previous step:

- 1. For File Group Source, select Previous Process Step.
- 2. For Selected Process Step, click the Browse button to select the step where the file group is created.

C Select Process Step					
Select the process step to use as the source.					
Clone current file group (Step 1 of 5)					
Ok Cancel					

The Select Process step dialog displays a list of steps that are eligible for selection. If no steps are eligible, a message informs you of this. Only steps that meet the following criteria are eligible for selection:

- Must precede the current step.
- Must create a file group using the Clone File Group action.

To continue the previous example, the configuration for Step 2 looks like the following:

Process Step Configuration					
File Group Source	Selected File Group	Previous Pro	cess Step		
Selected Process Step	Clone current file grou	Clone current file group (Step 1 of 5)			
Selected Action	Create Plan Files 🔹			•	

This means that Step 2 creates plan files for the file group created in Step 1.

Tracking the step result in active processes

If a process is configured to use the result of a previous step, then the result of that step must be tracked within the process. To continue the previous example, when Step 1 is completed, the process needs to know the name of the file group that was created so that it can pass the name of that file group to Steps 2 and 3.

When a step owner completes a step where the created file group is used by a subsequent step, then as part of the completion process, they must specify the name of the file group that is created. If only one clone is created for the source file group since the process was activated, that file group is selected by default as the step result. Otherwise, the step owner is prompted to select a file group before the step completion dialog displays.

If the displayed step result is incorrect, the step owner can use the **Select** button to change the file group before completing the step. The list of available file groups is limited to those that were created by cloning the source file group.

Process Action
Mark process step as completed in process 'Rollover'.
Current Step Clone current file group Swendy Hunter Next Step Timport actuals Ron Sandstone
Step Result:
Cloned file group 2016 Budget Select
Comment: Any comment will be stored with the process and included in notifications to the next step
OK Cancel

The file group specified as the step result is passed to the subsequent steps that use that result. The step result is also documented in the process details for future reference.

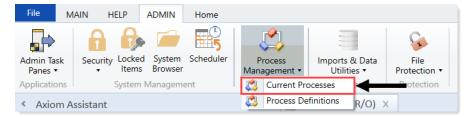
Step Activity	
2/26/2015 13:26 🔿	Step activated
2/26/2015 13:30 🛱	Step resulted in cloned file group '2016 Budget'
2/26/2015 13:30 🗹	Step completed by Wendy Hunter

Viewing process history

Each time a process starts, a new process instance is created to track the details of that particular execution of the process. This ensures that you always have a history of each time the process is performed, including who completed each step in the process and when. You can retain this history as long as needed.

Product administrators and process owners can view the history for a process. There are several ways to access this history.

• On the Admin tab, in the Workflow group, click Process Management > Current Processes.



- In the My Files and Taskstask pane, click View status. In the Process Status dialog, click Process history.
- In the Explorer task pane or Axiom Explorer system browser, right-click the process definition, and click Process Status. In the Process Status dialog, click Process history.

All of these options open the Process Manager dialog. Product administrators can see all processes in this dialog; process owners can only see the processes they own. To view the history for a process:

- 1. Select the process in the **Current Processes** section.
- 2. In the **Process History** section, select the process instance for which you want to view the history, and then click **View Details**.

Make sure to click the **View Details** button that is directly over the **Process History** section, not the button that is above the Current Processes section.

The **Process Status** dialog opens, displaying the details for the historical instance of that process. In addition to reviewing the details, you can perform the following actions from this dialog:

- View process definition: Opens a read-only copy of the process definition as it existed at the time of this historical instance.
- **Start process**: Starts a new instance of the process, using the current process definition. This option is only available if there is not already an active instance of the process.

If there is already an active instance of the process, a message will display at the top of the dialog to inform you of this. You can click the link in this message to be taken to the currently active instance.

Deleting process history

If you do not need the history of a particular process instance anymore, you can select that instance in the Process History section and then click **Delete** X. Process history is retained until it is manually deleted (it does not get automatically purged by the Purge System Data Scheduler job).

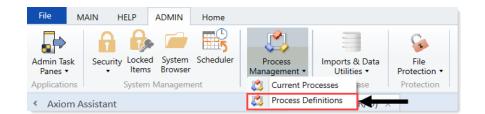
If the process definition is deleted, all history for that process is also automatically deleted.

Deleting a process definition

You can delete a process definition if it is not active and you no longer need it. Deleting a process definition also deletes all of the history for that process, so you should make absolutely sure that the definition and its history are not needed before you delete it.

To delete a process definition:

1. On the Admin ribbon tab, in the Workflow group, click Process Management > Process Definitions.



- 2. In the Axiom Explorer dialog, right-click the definition to delete, and click **Delete**.
- 3. At the confirmation prompt, click **OK**.

The process definition is deleted.

Assigning Process Flow steps for capital projects manually

Use the CT Process Flow Manual Assignment report to manually assign Process Flow steps for capital projects.

PKG Capita Filter: I	l Tracking NONE		Manual Assign						
			. CPREQ20xx.OrigBudgetTOT> =	5000)					
Sort: E	ntity;DEPT;De	scription (asc)							
	Entity	Dept	Project ID	Project Description		Routing 01	Routing 02		Rout
					Step Name: Step Number:	IТ 3	Clinical 3	3	Faci
e	2	26480	2017.002.26480.001	Master Facility Plan, New Cancer Center		-4			
0	2	26140	2017.002.26140.001	Bed, Bariatric Beds					
~	2	27550	2017.002.27550.001	EMG (Spine Neuro), Cyber Knife					
0	10	102002	2017.010.102002.001	General Construction, Dental Surgery Expansion					
\simeq	2	26750	2017.002.26750.001	Mammography Unit, Digital Mammo Unit					
\simeq	1	19150	2017.001.19150.001	General Software, ICU Software					
e	2	21010	2017.002.21010.001	Acquisition, SW MOB Acquisition					
\simeq	2	26440	2017.002.26440.001	General Construction, Third Floor NICU					
\simeq	2	27640	2017.002.27640.001	General Renovation, OR Remodel					
e	2	27540	2017.002.27540.001	General Construction, Sleep Lab Expansion					
e	2	27400	2017.002.27400.001	General Construction, New Cardiac Center					
0	2	26140	2017.002.26140.002	Defibrillator / Pacemaker, Defibrillators for ED					
e	2	26140	2017.002.26140.003	Monitor, Vital Signs Monitors					
\simeq	1	26310	2017.001.26310.001	Monitor, Transport Monitor for Patient Sedations					

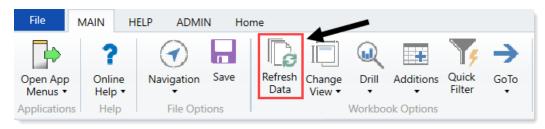
NOTE: You can view the plan files for the capital project by clicking the folder icon next to the Entity column.

To assign process flow steps for capital projects manually:

 In the Cap Track Admin task pane, in the Administration section, click Administrative Utilities > Process Flow Configuration > CT Process Flow Configuration, and double-click CT Process Flow Manual Assignment.

Administration	^
😑 Purchase Request Drivers	
🔀 Dimension Maintenance	
Administrative Utilities	
 Process Flow Configuration 	
 CT Process Flow Configuration 	
CT Process Flow Manual Assignment	
CT Process Flow Step Ownership	
PR Process Flow Configuration	
Ruild Imported Projects	

- Build Imported Projects
- 2. Refresh the data in the report by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 3. In the Refresh Variables dialog, do one of the following:

Option	Description
Select one or more projects to include in the report	 a. In the Refresh Variables dialog, for each option to filter by, click Choose Value. b. In the Choose Value dialog, select the values to include, and click OK.
	c. In the Refresh Dialog, click OK.
Include all projects in the report	In the Refresh Variables dialog, leave the field blank, and click OK.

4. In the Step Number row, choose the step you would like to manually route projects to.

	Entity	Dept	Project ID	Project Description		Routing 01	Routing 02	Rout
					Step Name:		Clinical	Fac
					Step Number:	3	3	3
e	2	26480	2017.002.26480.001	Master Facility Plan, New Cancer Center				
e	2	26140	2017.002.26140.001	Bed, Bariatric Beds				

5. In the Routing 01, Routing 02, and Routing 03 columns, to manually set the Process Flow steps, as required, select Yes.

	Entity	Dept	Project ID	Project Description		Routing 01	Routing 02
					Step Name:	IT	Clinical
					Step Number:	3	3
6	2	26480	2017.002.26480.001	Master Facility Plan, New Cancer Center			•
0	2	26140	2017.002.26140.001	Bed, Bariatric Beds	-	Yes	_

6. After you make changes, in the Main ribbon tab, click Save.

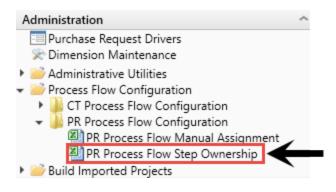
File	MAIN H	IELP ADMIN	N Ho	me					
•	?	\checkmark				Q		74	→
Open App Menus 🔻	Online Help ▼	Navigation	Save	Refresh Data	Change View ▼	Drill	Additions •	Quick Filter	GoTo •
Applications	Help	File Opti	ons			Workboo	ok Options		

Configuring conditional Process Flow rules for purchase requests

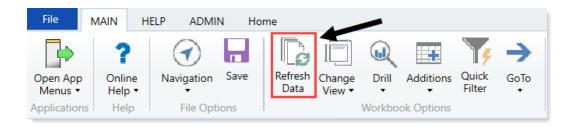
Use the PR Process Flow Step Ownership report to set the conditional rules for the purchase request Process Flow.

To configure conditional Process Flow rules for purchase requests:

 In the Cap Track Admin task pane, in the Administration section, click Administrative Utilities > Process Flow Configuration >PR Process Flow Configuration, and double-click PR Process Flow Step Ownership.



- 2. To select the purchase requests to configure the rules for, refresh the data in the report by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 3. In the Refresh Variables dialog, click Choose Value.
- 4. In the **Choose Value** dialog, select the check mark box next to one or more purchase requests, and click **OK**.
- 5. In the Refresh Variables dialog, click OK.
- 6. In the **Process Flow Assignment Area**, complete the following fields for each step owner, as needed:

PR Process Flow	Step Ow	nership		
Logic for Step Ownership Lookup	otep om			
Step:	1	2	3	4
Step Name:	VP	IT	Clinical	Facilities
Individual Step Owner (if applicable):				
Process Flow Assignment Area				
Reason	Double Click to Select			
Priority	Double Click to Select			
Category	Double Click to Select			
Is purchasing review required for pricing?	Select from Drop Down			
Is construction or renovation required?	Select from Drop Down			
Does this project include an IT component?	Select from Drop Down			
Is this request for medical equipment?	Select from Drop Down			
Cap Project Greater Than or Equal to \$ (Leave blank for no filter)				
Cap Project Less Than \$ (Leave blank for no filter)				
Purchase Request Greater Than or Equal to \$ (Leave blank for no filter)				
Purchase Request Less Than \$ (Leave blank for no filter)				

NOTE: There may be different or additional rows, depending on how your system is set up.

Option	Description
Step	Type the step number
Step Name	Type the step name.
	IMPORTANT: This name should be the same name as set up in Process Management and in your department table.
Individual Step Owner (if applicable)	If only a single user will be assigned as the owner of the step for all capital projects, type the name.
Reason	For each field, do the following:
Priority	a. Double-click the field.
Category	b. In the Choose Value dialog, select the value.
	c. Click OK.
Is purchasing review required for pricing?	For each question, from the drop-down, select Yes or No.
ls construction or renovation required?	
Does this project include an IT component?	
ls this request for medical equipment?	
Cap Project Greater Than or Equal to \$	Do one of the following: • To filter projects, enter the filter criteria.
Cap Project Less than \$	To include all projects, leave the field blank.
Purchase Request Greater Than or Equal to \$	
Purchase Request Less than \$	

The **Query Area** is where you can view testing results, or how your projects are moving through workflow in the live environment

Query Area				
2	Sally Klein	Jblock	Jess Block	Bill Bigcraft
SUM	1	1	1	1
Project Type and Detail	0	0	0	0
Template	0	0	0	0
PickLists	1	1	1	1
Capital Questions	0	0	0	0
PO PickLists	0	0	0	0
Dollar Thresholds	0	0	0	0

7. After making your changes, in the Main ribbon tab, click Save.

Configuring conditional Process Flow rules for capital projects

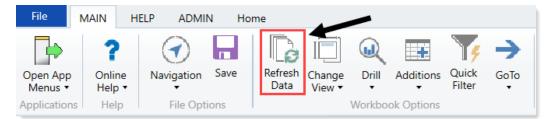
Use the CT Process Flow Step Ownership report to set the conditional rules for the capital project Process Flow.

To configure conditional Process Flow rules for capital projects:

 In the Cap Track Admin task pane, in the Administration section, click Administrative Utilities > Process Flow Configuration > CT Process Flow Configuration, and double-click CT Process Flow Step Ownership.

Administration	^
😑 Purchase Request Drivers	
🔀 Dimension Maintenance	
Administrative Utilities	
 Process Flow Configuration 	
👻 🌗 CT Process Flow Configuration	
CT Process Flow Manual Assignment	
CT Process Flow Step Ownership	
PR Process Flow Configuration	
Build Imported Projects	

- 2. To select the capital projects to configure the rules for, refresh the data in the report by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



• Press F9.

- 3. In the Refresh Variables dialog, click Choose Value.
- 4. In the Choose Value dialog, select the check mark box next to one or more projects, and click OK.
- 5. In the Refresh Variables dialog, click OK.
- 6. In the **Process Flow Assignment Area**, complete the following fields for each step owner, as needed:

CT Process Flow Step Ownersh Logic for Step Ownership Lookup	ір					
Step:	1	2	3	4	5	6
Step Name:	VP	IT	Clinical	Facilities	Approver	Voting
Individual Step Owner (if applicable):						
Process Flow Assignment Area						
Project Type Detail	Project Type Required					
Template	Double Click to Select					
Class	Double Click to Select					
Reason	Double Click to Select					
Priority	Double Click to Select					
Category	Double Click to Select					
Is purchasing review required for pricing?	Select from Drop Down					
Is construction or renovation required?	Select from Drop Down					
Does this project include an IT component?	Select from Drop Down					
Is this request for medical equipment?	Select from Drop Down					
Cap Project Greater Than or Equal to \$ (Leave blank for no filter	1					
Cap Project Less Than \$ (Leave blank for no filter)						

NOTE: There may be different or additional rows, depending on how your system is set up.

Option	Description
Step	Type the step number
Step Name	Type the step name. IMPORTANT: This name should be the same name as set up in Process Management, with a matching column in your department table.
Individual Step Owner (if applicable)	If only a single user will be assigned as the owner of the step for all capital projects, type the name.

Option	Description
Project Type	For each field, do the following:
Project Type Detail	a. Double-click the field.
Template	b. In the Choose Value dialog, select the value.
Class	c. Click OK.
Reason	
Priority	
Category	
Is purchasing review required for pricing?	For each question, from the drop-down, select Yes or No.
ls construction or renovation required?	
Does this project include an IT component?	
ls this request for medical equipment?	
Cap Project Greater Than or Equal to \$	Do one of the following:
Cap Project Less than \$	To filter projects, enter the filter criteria.To include all projects, leave the field blank.

In the **Query Area**, you can view testing results or how your projects are moving through workflow in the live environment.

Query Area								
SUM Project Type and Detail Template PickLists Capital Questions	2	Sally Klein	Jblock 1 0 1 1 0 1 0	Jess Block 1 0 1 1 0	Bill Bigcraft 1 0 1 1 0 0 0 1 0	SKlein 1 0 1 1 0	bbigcraft 1 0 1 1 0	1 0 1 0
Dollar Thresholds SUM Project Type and Detail Template PickLists Capital Questions Dollar Thresholds	3	Sally Klein	0 Jblock 1 0 0 1 1 0 0	0 Jess Block 1 0 0 1 0 0	0 Bill Bigcraft 0 0 1 0 0	0 myberg 1 0 1 1 0 0	0 bbigcraft 1 0 0 1 0 0	0 1 0 1 0 0
SUM Project Type and Detail Template PickLists Capital Questions Dollar Thresholds	4	Scott Johanson	Jblock 1 0 1 0 0 0 0 0 0 0	Jess Block 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bill Bigcraft 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SJohanson 1 0 1 0 0 0	bbigcraft 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 0

7. After making your changes, in the Main ribbon tab, click Save.

Assigning Process Flow steps for purchase requests manually

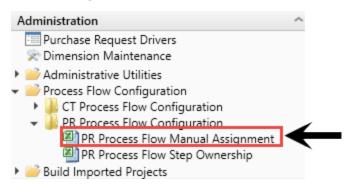
Use the PR Process Flow Manual Assignment report to manually assign Process Flow steps for purchase requests.

кна н	lealth I Tracking	CC33 I I	ow Manual /	-saigninem				
	NONE							
			CPREQ20xx.OrigBudgetTOT > = 5000	9				
Sort: E	ntity;DEPT;	Description (asc)						
	Entity	Dept	Purchase Request ID	Description	Routing 01	Routing 02	Routing 03	Template
					There is an error in XML	There is an error in XML	There is an error in XML	
				Step Name: Step Number:	document (37, 12942).	document (37, 12942). 3.2	document (37, 12942).	
				Step Number:	5.1	5.2	0.0	
		264.42	PP 2017 002 201 10 001 001	Developed of 2 of the 2 hards arrestly build out of				
2	2	26140		Purchase of 2 of the 3 beds currently budgeted.				NonThreshold Equipme
2	2	26140 26140	PR.2017.002.26140.001.002 PR.2017.002.26140.003.001					NonThreshold Equipme
2	2	26140	PR.2017.002.26140.003.001 PR.2017.001.26310.002.001					NonThreshold Equipmen
2	1	26310	PR.2017.001.26310.002.001 PR.2017.001.26310.003.001					NonThreshold Equipmer NonThreshold Equipmer
2	1	26310		Transport Incubator/ Isolette				NonThreshold Equipme
8	1	26350	PR.2017.001.26350.001.001					NonThreshold Equipmen
2	1	26350	PR.2017.001.26350.001.001 PR.2017.001.26350.003.001					NonThreshold Equipmen
2	1	26350	PR.2017.001.26350.005.001	Portable Pulse Oximeters				NonThreshold Equipmen
2	1	26350						NonThreshold Equipmen
2	1	26430	PR.2017.001.26430.002.001	Radiant Warmers				NonThreshold Equipme
2	1	26470	PR.2017.001.26470.001.001	12 Lead EKG Machine, MAC 5500				NonThreshold Equipmen
2	1	26470	PR.2017.001.26470.002.001	Bladder Scanner BVI 9400				NonThreshold Equipmen
2	1	26470	PR.2017.001.26470.003.001	Blanket Warmer				NonThreshold Equipmer
2	1	26470	PR.2017.001.26470.005.001	Patient Beds				NonThreshold Equipmen
2	1	26770	PR.2017.001.26770.003.001	In Vivo Dosimetry				NonThreshold Equipmer
2	1	26770	PR.2017.001.26770.005.001	Tip Confirmation System				NonThreshold Equipmen
2	1	26780	PR.2017.001.26780.002.001	Equipment for Pre/Post Area				NonThreshold IT
2	1	26780	PR.2017.001.26780.004.001	Flex Vision Lab 2				NonThreshold IT
2	1	26780	PR.2017.001.26780.006.001	Cardiolab EP Recorder				NonThreshold Equipmer
2	1	26790	PR.2017.001.26780.008.001	EP Med Stimulator				NonThreshold IT

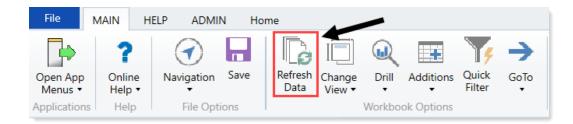
NOTE: You can view the plan files for the capital project by clicking the folder icon next to the Entity column.

To assign process flow steps for purchase requests manually:

 In the Cap Track Admin task pane, in the Administration section, click Administrative Utilities > Process Flow Configuration > PR Process Flow Configuration, and double-click PR Process Flow Manual Assignment.



- 2. Refresh the data in the report by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 3. In the Refresh Variables dialog, do one of the following:

Option	Description
Select one or more purchase requests to include in the report	 a. In the Refresh Variables dialog, for each option to filter by, click Choose Value.
	b. In the Choose Value dialog, select the values to include, and click OK.
	c. In the Refresh Dialog, click OK.
Include all purchase requests in the report	In the Refresh Variables dialog, leave the field blank, and click OK .

4. In the Step Number row, choose the step you would like to manually route projects to.

Entity	Dept	Purchase Request ID Description		Routing 01	Routing 02	Routing 03	Template
			Step Name: Step Number:	IT 3.1	Clinical 3.2	Facilities 3.3	
≥≥≥2	26140 26140	PR.2017.002.26140.001.001 PR.2017.002.26140.001.002					NonThreshold NonThreshold

5. In the Routing 01, Routing 02, and Routing 03 columns, to manually set the Process Flow steps, as required, select Yes.

	Entity	Dept	Purchase Request ID Description		Routing 01	Routing 02	Routing 03
				Step Name: Step Number:	IT 3.1	Clinical 3.2	Facilities 3.3
2	2	26140	PR.2017.002.26140.001.001	\rightarrow	Vice		
11	2	26140 26140	PR.2017.002.26140.001.002 PR.2017.002.26140.003.001	-			

6. After you make changes, in the Main ribbon tab, click Save.

File	MAIN H	ELP ADMIN	l Hor	me					
Open App Menus •	? Online Help ▼	Navigation	Save	Refresh Data	Change View •	Drill	Additions	Quick Filter	GoTo
Applications	Help	File Optio	ons			Workboo	ok Options		

Working with Capital Projects

In Axiom Capital Tracking, projects come from two sources:

- Approved projects from Axiom Capital Planning are imported to Axiom Capital Tracking.
- You can create non-budgeted projects using the Create or Open Capital Project command.

After a capital budget has been set up in the system, the primary tasks for users involves creating, reviewing, and approving capital projects.

There are two broad categories of capital projects in Axiom Capital Tracking:

- Non-Threshold (Summary) Capital Projects Capital projects below a set dollar threshold that can be approved on an ad-hoc basis by a single executive.
- Threshold (Pro Forma) Capital Projects Capital projects that exceed the set dollar threshold are recommended to be approved as part of a larger, organization-wide process of evaluating and prioritizing capital requests, involving a committee of multiple stakeholders.

While the administrator may define sub-categories for each type, whether a project is Summary versus Pro Forma is the main determinant of what data needs to be entered into a request and how the request is subsequently processed within the system.

Projects approved in Axiom Capital Planning display in the Capital Project Summary and Capital Project Directory with the respective original budget allocated in Axiom Capital Planning.

NOTE: For more information regarding the process by which capital projects are transferred, see the *Axiom Capital Planning Administrator's Guide.*

Tracking Capital Projects

Axiom Capital Tracking includes a number of reports you can use to view the status of capital projects. Most of these reports are web-enabled.

You can access these reports in the Cap Track and Cap Track Admin task panes in the Capital Tracking Reports section or in the Reports Library.

There are other reports available to view approval status, retrospective project reviews, and so on. For more information, see Working with Reports.

Viewing project plan files and purchase requests

When you click the Plan File Directory button on the Capital Tracking side of the home page, the Capital Tracking - Projects page displays, which lists all the current project files and their details. From this screen, you can also add a new capital project and search for existing projects. To open a project file, simply click any of the links in the CAPREQ, ProjectID, or Description columns.

Capital T	racking-Projects	3					Add a New Capital Project		Q 3
CAPREQ 1	ProjectID	Description	Entity	Description	Dept	Description	Original Budget	Total Requested	Start Year
2	CT_Pending_2	Other Central Sterile	1	KH Health System	10000	EHS Balance Sheet	\$4,450,000.00	\$4,756,600.00	2020
3	CT_Pending	Discretionary	2	KH Medical Center	99	Test Dept	\$0.00	\$0.00	2020
4	CT_Pending	Amalgamator, threshold - additional sheet test	1	KH Health System	10000	EHS Balance Sheet	\$0.00	\$0.00	2020
5	CP_Pending_438	Amalgamator, threshold - additional sheet test	1	KH Health System	10000	EHS Balance Sheet	\$900,000.00	\$0.00	2020
6	Pending	Hemodialysis Unit	1	KH Health System	15000	EHS Deductions from Revenue	\$0.00	\$0.00	2020
7	CT_Pending	Contingency	1	KH Health System	10000	EHS Balance Sheet	\$0.00	\$5,580.00	2020
8	Pending	Discretionary	0	Unassigned/Not Applicable	5		\$0.00	\$0.00	2020
9	Pending	Radiation Survey Meter	2	KH Medical Center	99	Test Dept	\$0.00	\$0.00	2020
10	CP_Pending_462	Ultrasound Surgery Unit,Replacement Equipment	1	KH Health System	18980	EHS Bldg-South	\$0.00	\$0.00	2020
11	CP_Pending_438	Amalgamator, threshold - additional sheet test	1	KH Health System	10000	EHS Balance Sheet	\$900,000.00	\$0.00	2020
12	CP_Pending_437	Amalgamator, threshold - no additional sheet	1	KH Health System	10000	EHS Balance Sheet	\$900,000.00	\$1,301,212.00	2020
13	CP_Pending_483	Ultrasonic Cleaning System,test	2	KH Medical Center	99	Test Dept	\$600,000.00	\$0.00	2020

The Capital Tracking - Purchase Requests page lists all the purchase requests and their details. You can also add a new purchase request and search for an existing request. To open a request, click any of the links in the POTRANS, PR ID, or Description columns.

Capital T	racking-Purchase Re	+ Add New Purchase Request		Q	ж				
POTRANS †	PR ID	Description	Request Notes	Creator	Status	Status Comments	PO	CAPREQ	
2	PR.CP_Pending_438.001			JLandes	Pending	0		5	î.
3	PR.CP_Pending_438.002			CCowgur	Pending	D		5	
4	PR.CP_Pending_438.003			CCowgur	Pending	0		5	
5	PR.CP_Pending_438.004			Eklein	Pending	D		5	

To view project plan files and purchase requests:

1. From the Axiom Capital Tracking home page, do any of the following:

NOTE: To access this location from the Cap Tracking Admin task pane, in the **Capital Tracking Commands** section, click **Tracking Directory**, and double-click **Capital Tracking Directory**. For more information, see Viewing the Capital Tracking Directory.

- To view capital projects, click the Plan File Directory button on the left side of the page.
- To view purchase requests, click the **Plan File Directory** button on the right side of the page.

Tracking			III « 🗘 🐽
rocess Summary - Capital	Tracking	Process Summary - Purchas	e Requests
O New Total	0 Due Soon 0 Overdue	O New Total	0 Due Soon 0 Overdue
Plan File Directory	Capital Plan File Management: View Plan File Directory (CapitalTreacking) View Capital Tracking Projects.	Plan File Directory	Capital Plan File Management: View Plan File Directory (PurchaseRequests) View Purchase Requests.
reate or Open Capital Projects	Capital Plan File Management: Create or Open Capital Tracking Project Capital Projects will open in a new window.	Create or Open Purchase Requests	Capital Plan File Management: Create or Open Purchase Request Purchase Requests will open in a new window.
Copy or Transfer Capital Projecta	Capital Plan File Management: Copy or Transfer Capital Projects Copy Capital Projects from one File Group to another. You can also this utility to transfer Capital Projects from Capital Planning File Groups to Capital Tracking.	Launch Capital Transfer Utility	Capital Plan File Management: Launch the Capital Transfer Utility In this utility, you will be able to transfer funds between capital projects.
Launch Capital Dashboard	Capital Reports: In this Dashboard, you will see a summary and analysis of your Capital Tracking process.	Launch Capital Tracking Summary Report	Capital Reports: Launch the Capital Tracking Summary Report In this report, you will be able to view a summary of all Capital Tracking and their associated Purchase Requests.
Edit Drivers	Capital System Administration: Adjust the Capital Tracking Drivers Adjust the Drivers for your Capital Tracking File Group. NOTE: If you have Capital Planning Installed, this will open the CP Next Year Drivers.	Edit Drivers	Capital System Administration: Adjust Purchase Request Drivers Adjust the Drivers for your Purchase Request File Group.
Transfer Capital Tracking Projects to Rolling Forecast	Capital Integration: Transfer to Axiom Rolling Forecast Transfer actual capital spent by quarter to Axiom Rolling Forecast.		

- 2. From this page, do any of the following:
 - Capital Projects
 - To add a new project, click + Add New Capital Request at the top of the page. For instructions for adding a new project, see Creating or modifying a non-budgeted capital project.
 - To search for a project, type the project name, CAPREQ ID, or project ID in the search field at the top of the page.
 - Purchase Requests
 - To add a new purchase request, click +Add New Purchase Requisition at the top of the page. For instructions for adding a new purchase request, see Creating a purchase request.
 - To search for a purchase request, type the project name, CAPREQ ID, or project ID in the search field at the top of the page.

Viewing the Capital Tracking Summary

The Capital Tracking Summary displays detailed capital tracking information for each project.

Capital Tracking Summary

TOTA	L								17,484,574	(17,484,574)	0	17,484,574	659,868
	CAPRE	IQ / Project ID INS	Transaction ID	Entity	Department	Project Description / Transaction Notes	GLPERIOD	Status	Original Budget	Budget Exceptions	Transfers	Adjusted Budget	Purchase Requests
в	2	124 2017.001.19000.001		1	19000	Land Purchase, For New MOB		Approved	0	0	1,000,000	1,000,000	0
			TR.2017.001.19000.001.00			Transfer TO project (2017.001.19000.001) FROM project	(KH_Co: 201702			0	1,000,000		0
ъ	0	120 KH_Contingency		1	19000	Contingency, Main Campus Contingency Pool		Pending	4,105,000	(4,105,000)	(1,134,250)	2,970,750	0
			TR.KH_Contingency.001			Transfer FROM project (KH_Contingency) TO project (20	17.001.1 201702			0	(1,000,000)		0
			TR.KH_Contingency.002			Transfer FROM project (KH_Contingency) TO project (20	17.001.2 201702			0	(60,750)		0
			TR.KH_Contingency.003			Transfer FROM project (KH_Contingency) TO project (20	17.002.2 201702			0	(58,000)		0
			TR.KH_Contingency.004			Transfer FROM project (KH_Contingency) TO project (20	17.001.2 201702			0	(15,500)		0
Ð	0	16 2017.001.26310.002		1	26310	Bed, Pediatric Cribs		Approved	32,000	(32,000)	0	32,000	0
ъ	0	5	PR.2017.001.26310.002.00			Pediatric Cribs	201701	Approved					0
			IN.2017.001.26310.002.001			Pediatric Cribs	201701			0	0		0
B	0	17 2017.001.26310.003		1	26310	Ice Machine, Replacement for Dietary		Approved	4,000	(4,000)	0	4,000	0
ъ	0	6	PR.2017.001.26310.003.00			Ice Machine	201701	Approved					0
			IN.2017.001.26310.003.001			Ice Machine	201701			0	0		0
ъ	0	19 2017.001.26310.005		1	26310	Incubator, Transport Incubator/ Isolette		Approved	120,000	(120,000)	0	120,000	0
ь	0	7	PR.2017.001.26310.005.00			Transport Incubator/ Isolette	201706	Approved					0
			IN.2017.001.26310.005.001			Transport Incubator/ Isolette	201707			0	0		0
Ð	-	21 2017.001.26350.001		1	26350	Monitor, Telemetry Transmitters		Approved	15,800	(15,800)	0	15,800	0
ъ	0	8	PR.2017.001.26350.001.00			Telemetry Transmitters	201701	Approved					0
			IN.2017.001.26350.001.001			Telemetry Transmitters	201701			0	0		0
ъ		23 2017.001.26350.003		1	26350	Bed, CCU Beds		Approved	79,695	(79,695)	0	79,695	0
в	0	9	PR.2017.001.26350.003.00			CCU Beds	201701	Approved					0
			IN.2017.001.26350.003.001			CCU Beds	201701			0	0		0

To view the Capital Tracking Summary:

1. From the Axiom Capital Tracking home page, click Launch Capital Tracking Summary report.

NOTE: To access this location from the Cap Tracking Admin task pane, in the Capital Tracking Commands section, click Tracking Directory, and double-click Capital Tracking Summary.

Cap	pital Tracking		Ш 🛷 🗘 😐	AXIOM
≡	F			습 ?
	Process Summary - Capital T	racking	Process Summary - Purchase Requests	
	O New Total	0 Due Soon 0 Overdue	O New 0 Due Soon 0 Overdue	
	Plan File Directory	Capital Plan File Management: View Plan File Directory (Capital Tracking) View Capital Tracking Projects.	Plan File Directory Capital Plan File Management: View Plan File Directory (PurchaseRequests) View Purchase Requests. View Purchase Requests.	
	Create or Open Capital Projects	Capital Plan File Management: Create or Open Capital Tracking Project Capital Projects will open in a new window.	Cepital Plan File Management: Create or Open Purchase Request Oreate or Open Purchase Requests Purchase Requests will open in a new window.	
	Copy or Transfer Capital Projects	Capital Plan File Management: Copy or Transfer Capital Projects Copy Capital Projects from one File Group to another. You can also use this utility to transfer Capital Projects from Capital Planning File Groups to Capital Tracking.	Capital Plan File Management: Launch the Capital Transfer Utility In this utility, you will be able to transfer funds between capital projects.	
	Launch Capital Dashboard	Capital Reports: In this Dashboard, you will see a summary and analysis of your Capital Tracking process.	Launch Capital Tracking Summary Report Capital Reports: Launch the Capital Tracking Summary Report In this report, you will be able to view a summary of all Capital Tracking and their associated Purchase Requests. Capital Tracking	
	Edit Drivers	Capital System Administration: Adjust the Capital Tracking Drivers Adjust the Drivers for your Capital Tracking File Group. NOTE: If you have Capital Planning installed, this will open the CP Next Year Drivers.	Capital System Administration: Adjust Purchase Request Drivers Edit Drivers Adjust the Drivers for your Purchase Request File Group.	
	Transfer Capital Tracking Projects to Rolling Forecast	Capital Integration: Transfer to Axiom Rolling Forecast Transfer actual capital spent by quarter to Axiom Rolling Forecast.		

2. To change the variables to include in the report, in the upper left corner of the page, click the funnel icon .

The list of variable drop-downs display on the left side of the page. Click the thumbtack icon **keep** the list displayed.

3. Define information to include in the report by configuring the filters, and click Apply.

NOTE: The only filter that you are required to complete is the Tracking Summary Detail dropdown at the top of the list. To view all of the information in the report, leave the rest of the filter fields blank.

- 4. To open the plan file for a project, double-click the folder icon by on the left side of the **CAPREQ/POTRANS** column.
- 5. To view attachments for a capital project or PO request, click the circle-slash icon arnothing.
- 6. To print the report, click the printer icon 😑 in the upper left corner of the page.

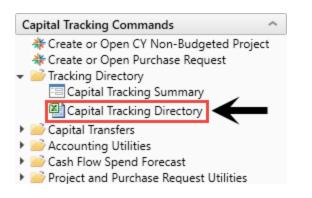
Viewing the Capital Tracking Directory

Use this report to view a summary of capital project tacking status and purchase request details. This report includes approved capital projects from Axiom Capital Planning as well as non-budgeted projects. From this report, you can access each project's plan file as well as view the project's status at a glance.

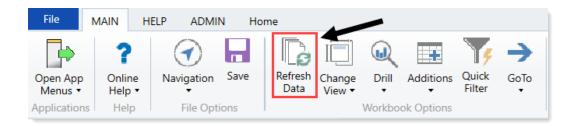
To view the Capital Tracking Directory:

1. In the Cap Track or Cap Track Admin task pane, in the Capital Tracking Commands section, click Tracking Directory, and double-click Capital Tracking Directory.

NOTE: You can also access a web version of this report from the Capital Tracking home page. For more information, see Viewing project plan files and purchase requests.



- 2. To refresh the data included in the report, do one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.

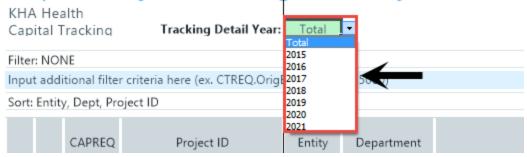


- Press F9.
- 3. In the **Refresh Variables** dialog, do the following:

Option	Description
Select one or more options to include in the report	 a. In the Refresh Variables dialog, for each option to filter by, click Choose Value. b. In the Choose Value dialog, select the values to include, and click OK. c. In the Refresh Dialog, click OK.
Include all of the options in the report	In the Refresh Variables dialog, leave the field blank, and click OK.

4. If applicable, in the **Tracking Detail Year** drop-down at the top of the workbook, select the year to view in the report.

Capital Project Tracking Directory



5. To view the project details for a capital project, double-click the folder icon.

Capital Project Tracking Directory

KHA Health Capital Tracking Tracking Detail Year			Total						
Filter	: NON	١E							
Input additional filter criteria here (ex. CTREQ.Orig				BudgetTOT	>=5000)				
Sort:	Entity	, Dept, Proj	ject ID						
	,	CAPREQ	Project ID	Entity	Department	Project Description	Original Budget	Adjusted Budget	Template
	0	124	2017.001.19000.001	1	19000	Land Purchase, For New MOB	0	1,000,000	Threshold
ø	0	120	KH_Contingency	1	19000	Contingency, Main Campus Contingency Pool	4,105,000	2,970,750	Threshold
ø	\odot	7	2017.001.19150.001	1	19150	General Software, ICU Software	1,600,000	1,600,000	Threshold
ø	\odot	15	2017.001.26310.001	1	26310	Monitor, Transport Monitor for Patient Sedations	20,000	20,000	NonThreshold Equipment
ø	0	16	2017.001.26310.002	1	26310	Bed, Pediatric Cribs	32,000	32,000	NonThreshold Equipment
ø	\otimes	17	2017.001.26310.003	1	26310	Ice Machine, Replacement for Dietary	4,000	4,000	NonThreshold Equipment
ø	0	18	2017.001.26310.004	1	26310	Incubator, Isolette/ Incubator	38,920	38,920	NonThreshold Equipment
ß	0	19	2017.001.26310.005	1	26310	Incubator, Transport Incubator/ Isolette	120,000	120,000	NonThreshold Equipment

Creating or modifying a non-budgeted capital project

When creating a new non-budgeted capital project, you enter details about the project into Axiom Capital Tracking. The information to add depends on various factors such as whether the project is a Threshold or Non-Threshold project.

After you create a project, a plan file opens with various tab levels and pages for you to complete. Which pages display depends on the project type for which you are submitting a request for. Each page includes a combination of pre-populated data and input fields. The pages include the following:

- Blue fields to input data.
- Drop-down menus to select options.
- White fields that are pre-populated with data.

Hemodialysis Unit												(*) Indicates a requir	rod fu
SETUP PROJECT	FINANCIAL	SUMMARY							⊡r Ex	ecutive Summ	ary Ŧ Routin	g () maicates a regul	eu lie
Financial Inputs* Balance Sheet	Financial Statements	Discount Rate											
Capital Additions Funding Sources Op	erating Revenue and Volume	Gross Charge	S Contra	actual Allowa	nces Other	Operating Reven	ue Salaries &	FTEs Profes	sional Fees	Supplies Pur	chased Service	s … 🔻 show/	/hide
Operating Revenue a	nd Volume												
	20	19 2020)	2021	2022	2023	2024	2025	2026	2027	2028	Comments	
Insert Payor													
Dutpatient Driver													
	Visits												
Payor Default Name	Customiz												
Vedicare	Medica	re											
npatient Volume													
Global Assumption			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Inpatient Discharges % Change		(0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Volume Adjustment			0	0	0	0	0	0	0	0	0		
Total Inpatient Discharges		0	0	0	0	0	0	0	0	0	0		
6 Discharges by Payor													
Medicare		100.0% 1	00.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		
Total % Discharges by Payor		100.0% 1	00.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		
Discharges by Payor													
Medicare		0	0	0	0	0	0	0	0	0	0		
Total Discharges by Payor		0	0	0	0	0	0	0	0	0	0		

To create or modify a non-budgeted capital project:

1. From the Axiom Capital Tracking home page, click Create or Open Capital Projects.

NOTE: To access this location from the Cap Tracking Admin task pane, in the Capital Tracking Commands section, double-click Create or Open Capital Project.

Tracking				🏭 🛷 🗘 💷	
Process Summary - Capi	tal Tracking	Process Summary - Purcha	ase Requests		
O New	0 Due Soon 0 Overdue	O New Total	0 Due Soon	0 Overdue	
Plan File Directory	Capital Plan File Management: View Plan File Directory (Capital Tracking) View Capital Tracking Projects.	Plan File Directory	Capital Plan File Management: View P (PurchaseRequests) View Purchase Requests.	lan File Directory	
Create or Open Capital Projecte	Capital Plan File Management: Create or Open Capital Tracking Project Capital Projects will open in a new window.	Create or Open Purchase Requests			
Copy or Transfer Capital Projects	Capital Plan File Management: Copy or Transfer Capital Projects Copy Capital Projects from one File Group to another. You can also use this utility to transfer Capital Projects from Capital Planning File Groups to Capital Tracking.	Launch Capital Transfer Utility	Capital Plan File Management: Launch In this utility, you will be able to transfe		
Launch Capital Dashboard	Capital Reports: In this Dashboard, you will see a summary and analysis of your Capital Tracking process.	Launch Capital Tracking Summary Report	Capital Reports: Launch the Capital Tr In this report, you will be able to view a and their associated Purchase Reques	summary of all Capital Tracking	
Edit Drivers	Capital System Administration: Adjust the Capital Tracking Drivers Adjust the Drivers for your Capital Tracking File Group. NOTE: if you have Capital Planning installed; this will open the CP Next Year Drivers.	Edit Drivers	Capital System Administration: Adjust Adjust the Drivers for your Purchase Ri		
Transfer Capital Tracking Projects to Rolling Forecast	Capital Integration: Transfer to Axiom Rolling Forecast Transfer actual capital spent by quarter to Axiom Rolling Forecast.				

- 2. Do one of the following:
 - To modify an existing project, in the **Open Existing Capital Project** section, select a project from the drop-down, and click **OK**.

TIP: You can search for a project by typing the project name or ID number. The system will automatically display projects that include that information.

 To create a project, in the Create a New Capital Request section, complete the following, and click OK:

Field	Description
Project Type	Select the type of project you are requesting.

Field	Description
Project Type Detail	Select a detail type the further describes the project.
Department	Select the department to associate to the project.
	NOTE: The list of departments is limited to the departments in which you have been given access.
Template	Select whether to use Threshold or Non-Threshold template.
	NOTE: Though there are only two types of templates that your organization can create, there may be variations of each type available to you.

- 3. Click Create.
- 4. Complete the steps for one of the following capital project types:
 - Non-Threshold (Summary)
 - Threshold (Pro Forma)

Entering data for Non-Threshold (Summary) projects

The standard Non-Threshold (Summary) request form includes the following tabs:

- Setup Displays the inputs entered when creating a capital project in Axiom Capital Planning.
- **Project** Includes fields for entering basic information about the project and questionnaire sections to answer questions justifying the request.
- Financial Includes fields for submitting capital pricing details and operational cost impacts.
- **Summary** Displays the inputs entered in the Setup, Project, and Financial tabs to use for review before submitting your request.

	ct Type : Environmental Se ensing Syster		Attachments Sa	ve 🥝 Submit					
SETUP	PROJECT	FINANCIAL	SUMMARY	C ^a Executive Summ	nary 茾 Routing ^(*)	Indicates a required field			
Capital Inputs*	Operational Impa	cts							
# Input Years Capital Start Year		1 v 2019 v							
			2019 Comments						
Unit Cost			0						
# Items			0						
	SubTotal 0								
IT Costs									
Hardware			0						
Software			0						
Implementation			0						
Network Infrastr	ucture		0						
Other IT			0						
+ New Capital C	ost Detail								
	:	Subtotal IT Costs	0						
Facilities Costs									
Construction			0						
Renovation			0						
Other Facilities			0						
+ New Capital C	lost Detail								

To enter data for Non-Threshold (Summary) projects:

1. In the **Project** tab, complete the following sub-tabs, as applicable:

IMPORTANT: To save or submit the request, you must complete fields with an asterisk (*)

Description

Provide a short and long description for the project as well as a justification statement for why your project should be approved.

It also displays the approval status of the project. If you have administrator privileges or you are an approver, the **Status** drop-down allows you to select the status of the request.

NOTE: One of the options in the Status drop-down is Funding Source. This type of project allows you to use its funding for other projects. For more information, see Creating capital projects as funding sources for special projects.

CAPREQ 3 Project Bed,Baria			6140 (EMC Emergency Ro	om (CDM)). Status Approved. Attachments: 1				Attachments	Save	Ø Submit	
	PROJE	ст		SUMMARY				C [#] Exec	utive Summary 茾 Routing	(*) Indica	ites a required field
Description	Details	Picklists	Capital Questions	Decision Matrix							
Short Descri	iption (14 of	f 50 chars)	Bariatric Beds							
Long Description (40 of 250 chars)			s)	Bariatric beds for en	ergency department.						
Project Just	tification (84	1 of 500 cl	hars)	There is a growing need for bariatric beds and this is a patient safety enhancement.							
Status				Approved	•						

Details

Select the vendor for the item you are requesting for the project and the month the item will be purchased.

ΝΟΤ	NOTE: Your organization may add other text fields to this section for you to complete.									
CAPREQ 3 Proje Bed, Baria		· · · ·	26140 (EMC Emergency Ro	oom (CDM)) Status: Approv	ad (Attachments: 1			Attachments	Save	⊘ Submit
SETUP	SETUP PROJECT		FINANCIAL	SUMMARY				Executive Summary ‡ Routing (*) Ind		ites a required field
Description	Details	Picklists	Capital Questions	Decision Matrix						
Proposed Vendor				V00722-GE Medical Syst	ems	•				
Purchase Period				April		•				

Picklists

Select the class, reason, priority, and category for the requested project. There may also be other picklists specific to your organization.

CARRED 3 Project Type : Nursing Department 26140 (EMC Emergency Room (CDM)) Status Approved Attachments 1 Bed, Bariatric Beds							Attachments	Save	Ø Submit
SETUP	PROJ	JECT	FINANCIAL	SUMMARY			C Executive Summary ‡ Routing	(*) Indic	ates a required field
Description	Details	Picklists	Capital Questions	Decision Matrix					
Class				Strategic Plan		•			
Reason				New Service		¥			
Priority				Necessary for smooth o	perations	¥			
Category				Patient Care Equip/Pt Be	ds	•			

Capital Questions

From the drop-down, select **Yes** or **No** to answer the list of standard questions used to justify for your request. In the **Comments** box, you can enter additional information, if needed.

NOTE: Depending on how your organization has configured the project template, questions with asterisks may be required before you can save the project request.

CAPRED 2 Project Type Central Sterile Department: 17840 (BHS Sports Medicine) Status Pending Attachments 0 Sanitizer Unit Attachment								
SETUP PROJECT FINANCIAL	SUMMARY	C Executive Summary ‡ Routing (*) Indicates a required field						
Description Details Picklists Capital Questions	Decision Matrix							
Capital Questions	Response Comments							
Is purchasing review required for pricing?	Select Enter Comment here							
Is construction or renovation required?	Select							
Does this project include an IT component?	Select							
Is this request for medical equipment?	Select							

Decision Matrix

Answer questions regarding how your project meets the criteria of multiple categories related to the pillars of your organization. The responses you provide are weighted to help your organization prioritize requests.

CAPREQ 3 Project Bed, Baria		t: 26140 (EMC Emergency Ro	om (CDM)) Status: Approv	ed Attachments 1 Attachment	ts Save ⊘ Submit
SETUP	PROJECT	FINANCIAL	SUMMARY	I Executive Summary ≠ Rou	(*) Indicates a required field
Description	Details Picklists	Capital Questions	Decision Matrix		
Impact on Pa	atient and/or Phys	cian Satisfaction	102 - Modest positive im	pact for either	
			Will bring us in line with	ndustry standards/trends.	
Quality, Safe	ty & Compliance E	fectiveness	203 - Substantial impact	•	
			This is a piece of equipn	ent that provides much needed safety for a population of our patients.	
Strategic & N	New Business Grov	đ	301 - Maintains our curre	ent business v	
Strategic & P	New Busiliess Glov	/ui	No new business expect	ed	

2. In the Financial tab, complete the following sub-tabs, as applicable:

Capital Inputs

Enter the specific costs for the project.

NOTE: Depending on how your organization configures the form, not all of the options listed in the following table will display.

Option	Description
# Input Years	Select the number of years to input costs.
	NOTE: 1 usually indicates the upcoming budget year. You can enter up to ten years of data, depending on how the template is configured by your organization.
Capital Start Year	Select the year the project to start. The default is the current budget year.
Unit Cost	The cost of the item per unit.
# Items	The number of items to purchase.
Shipping/Handling	The cost amount for shipping/handling of the item.
Other IT or Other Facilities	The cost of other items or services related to IT or Facilities. Use the Comments column to further describe the cost amount.
Trade-In Value	The amount an item is worth on trade-in for another item. Enter the amount as a negative number.

CADDEO 2 Desired T	Musica ID	+ 26140 (EVIC E	(CDM		and Attachments 1			
	APRED 3) Project Type : Narsing: Department 26149 (EMC Emergency Room (CDM)) (Status Approved Attachments 1 39ed,Bariatric Beds Attachments Sec							
		FINANCIAL	. si	JMMARY			C Executive Summary ‡ Routing	(*) Indicates a required fie
Capital Inputs*	Operational Impac	rts						
# Input Years Capital Start Year		1 * 2019 *						
			2019	Comments				
Software			0					
Implementation			0					
Network Infrastructu	re		0					
Other IT			0					
+ New Capital Cost	Detail							
		Subtotal IT Costs	0					
Facilities Costs								
Construction			0					
Renovation			2,500	Renovation cos	ts to widen doors to rooms for new bariatric beds.			
Other Facilities			0					
+ New Capital Cost	Detail							
	Subt	otal Facilities Costs	2,500					
Shipping / Handling			0					
Other			550					
TOTAL CAPITAL REQ	UEST		48,050					

To add additional costs for IT, Facilities/Construction, and/or Clinical Engineering, click + New Capital Cost Detail for the appropriate cost section.

IT Costs								
Hardware	0							
Software	0							
Implementation	0							
Network Infrastructure	0							
Other IT	0							
+ New Capital Goat Detail								
Subtotal IT Costs	0							

Operational Impacts

Enter details related to the anticipated operational impacts on key drivers and statistics should the project be approved. For example, this might include the percentage by which the project might drive up patient volume or the number of additional FTEs required. Only include incremental business on this tab.

In the **# Years for Financial Analysis** field, type the number of years to determine how far out the impacts drive the financial return metrics of the project, such as Net Present Value (NPV), Internal Rate of Return (IRR), and so on.

- 3. In the **Summary** tab, review the inputs you entered in the Setup, Project, and Financial tabs. Return to the appropriate tab to make edits, if necessary.
- 4. To attach files to your request, at the top of the page, click **Attachments**.
 - a. For each file to upload, in the File Attachments dialog, click +Upload Attachment.
 - b. In the Open File dialog, select the file, and click Open.
 - c. Click Close.
- 5. At the top of the page, do one of the following:
 - To save your changes before submitting your project request for approval, click **Save**.
 - To save and submit your project request for approval, click **Submit**.

CAPREQ 3 Project T Bed, Bariat		t: 26140 (EMC Emergency Ro	om (CDM)) Status: Approv	ed Attachments 1 Attachments	Save	⊘ Submit
SETUP	PROJECT	FINANCIAL	SUMMARY	I Executive Summary ≠ Routing	(*) Indicat	s a required field

6. When you submit the request, the system displays a dialog that shows you the next step in the approval process. Enter comments to add to the request, if necessary, and click **Submit**.

Submit CAPREQ 3 Bed, Bariatric Beds		×
1 Owner	\longrightarrow 2 VP	
Current Step	Next Step Step Owner: Sally Klein No due date	_
Comments		
	Submit Cance	əl

Viewing the Executive Summary report

Click the Executive Summary link in the upper right corner of the page to open the Executive Summary report.

NOTE: By default, the system is set up to link to this report, however, your administrator may customize it to open another report - including a custom report created by your organization. This may include renaming the link.

Project ID CP_Pe Bed, Bari			e : Nursing Department: 26	m (CDM)) Status: Pending Attachments: 0	Ļ	Attachments	Save	
SETUP	PROJECT FINAN			SUMMARY		C Executive Summary + Routing	(*) Indicates	a required field
Description	Details	Picklists	Capital Questions	Decision Matrix	Business Plan			

From his page, you can view the details of the report as well as print a PDF.

₹ <i>¥</i>						
Master Facility Pla		Center West: Overview				k to download PDF sion of the report
OVERVIEW	BUSINESS PLAN	STMT OF REVENUE AND EXPENSES	BALANCE SHEET	CASH FLOW STMT	KEY STATISTICS	NPV AND METRICS
Total Requested: \$11,125,000 2020 Requested: \$0	Creator: Evan Klein VP: Admin	Department of Hospital: EMC	O/P Oncology (26480)			
Key Numbers Net Present Value at 12%	-\$8,758,178.76					
Return Efficiency	-78.7%					
1st Year of Positive Cashflow	NA					
Internal Rate of Return (IRR)	-22.72%					
Payback	0.0					
Project Details						
Long Description (X):	New Cancer Center that will b	e on the east side of the city				
Justification X:	St. Mary's has expanded their	cancer services over the last 3 years, and we need a ne	w facility to remain competitive while	jumping on the opportunity to increase	market share.	
Class:	Regulatory Mandate					
Reason:	Strategic Plan					
Category:	Construction					
Priority:	Create/Maintain Marketability					
Decision Matrix						
mpact on Patient and/or Physician Satisfaction this is a long txt and is tearly 100 characters long:	NA	NA				
Quality, Safety & Compliance	NA	NA				

Viewing process status and details for the project

Click the Routing link in the upper right corner of the page to open the Process Routing page, which allows you to view the current process status and details for a particular capital project or purchase request. If you are the current step owner, you can also complete the task from this page. If you are an administrator, you can complete the task for the current step owner and/or move the step to another step in the process. For more information, see Viewing process routing details.

	nding_5 CAPREQ 5 Pr atric Beds	oject Type : Nursing Departme	om (CDM)) Status Pending Attachments 0	Attachme	ents Save		
SETUP	PROJECT FINANCIAL		SUMMARY	C [®] Executive Summary ≢ Ro	uting ^{(*) h}	ndicates a required fie	ld
Description	Details Pic	lists Capital Questic	ns Decision Matrix	Business Plan			

Entering data for Threshold (Pro Forma) projects

The standard Threshold (pro forma) request form includes the following tabs:

- Setup Displays the inputs entered when creating a capital project in Axiom Capital Planning.
- **Project** Includes fields for entering basic information about the project and questionnaire sections to answer questions justifying the request as well as a place to enter the project business plan.
- **Financial** Includes fields for financial inputs, balance sheet, financial statements, and discount rates.
- **Summary** Displays the inputs entered in the Setup, Project, and Financial tabs to use for review before submitting your request.

												Attachments	Save	⊘ Submit
		FINANCIAL	SUMM#	ARY						C I	executive Sur	nmary 芉 Routin	g ^{(*) Indicate}	es a required fiel
ancial Inputs*	Balance Sheet	Financial Statemer	nts Discou	int Rate										Ø
ital Additions	Funding Sources	Operating Revenue an	d Volume Gro	oss Charges	Contractual Allow	vances Other	Operating Revenu	e Salaries 8	FTEs Profe	ssional Fees	Supplies	Purchased Service	s 🔻	show/hide
apital A	dditions													
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Comments	
sert Capital Spendi	ing													
ear Depreciation														
oment														
dical and Diagnost	tic Equipment													
lions			0	850,000	950,000	0	0	0	0	0		0 0		
alization			0	0	850,000	950,000	0	0	0	0		0 0		
in Progress			C	850,00	950,000	0	0	0	0)	0 0)	
ul Life		10												
eciation - New			C)	0 42,500	90,000	47,500	0	0)	0 0		
eciation - Drop Off			C)	0 0	0	0	0	0)	0 0		
Depreciation			C)	0 42,500	132,500	180,000	180,000	180,000	180,00) 180,0	000 180,000)	
Construction														
und Clearing														
ions			1,000,000	0	0	0	0	0	0	0		0 0		
talization			1,000,000	0	0	0	0	0	0	0		0 0		

To create Threshold (pro forma) projects:

1. In the **Project** tab, complete the following sub-tabs, as applicable:

Description

Provide a short and long description for the project as well as a justification statement for why your project should be approved.

It also displays the approval status of the project. If you have administrator privileges or you are an approver, the **Status** drop-down allows you to select the status of the request.

NOTE: One of the options in the Status drop-down is Funding Source. This type of project allows you to use its funding for other projects. For more information, see Creating capital projects as funding sources for special projects.

CAPREQ 2 Project Type : Engineering / Facilities Department: 26480 (EMC Master Facility Plan,New Cancer Center		Attachments Save O Submit
SETUP PROJECT FINANCIAL	SUMMARY	C Executive Summary + Routing (*) Indicates a required field
Description Details Picklists Capital Questions	Business Plan	
Short Description (17 of 50 chars)	New Cancer Center	
Long Description (60 of 250 chars)	New Cancer Center that will be on the east side of the city.	
Project Justification (176 of 500 chars)	St. Mary's has expanded their cancer services over the last 3 years, and we need a new facility to remain competitiv jumping on the opportunity to increase market share.	ve while
Status	Pending •	

Details

Select the start and completion date for the project.

NOTE: Your organization may add other text fields to this section for you to complete.											
CAPPEO 21 Project Type : Engineering / Facilities (Department: 26480 (E): Master Facility Plan, New Cancer Cent			Attachments Save Submit								
SETUP PROJECT FINANCIAL	SUMMARY		C* Executive Summary + Routing (*) Indicates a required field								
Description Details Picklists Capital Question	s Business Plan										
Expected Start Date (mm/dd/yyyy)	7/1/2019	li ×									
Projected Completion Date (mm/dd/yyyy)	12/1/2018	₩ ×									

Picklists

Select the class, reason, priority, and category for the requested project. There may also be other picklists specific to your organization.

			es Department: 26480 (EMC V Cancer Cente		ding Attachments: 3								Attachme	nts	Save	Ø Submit	
SETUP	PRO	JECT	FINANCIAL	SUMMARY							C Executiv	e Summ	ary 茾 R	outing	(*) Indica	ites a required field	
Description	Details	Picklists	Capital Questions	Business Plan													
Class				Master Facility Plan		•											
Reason				Strategic Plan		•											
Priority				Create/Maintain Mar	ketability	•											
Category				Construction		•											

Capital Questions

In the **Response** column, click the toggle to select **Yes** or **No** to answer the list of standard questions used to justify for your request. In the **Comments** box, you can enter additional information, if needed.

CAPREQ 2 Project Type : Central Sterile Department	ment: 17840 (EHS Sports M	(edicine) Status: Pendi		Attachments Save					
SETUP PROJECT		SUMMARY	Executive Summary	Routing	(*) Indicates a required field				
Description Details Picklists	Capital Questions	Decision Matri	ix .						
Capital Questions		Response	Comments						
Is purchasing review required for	r pricing?	Select V	Enter Comment here						
Is construction or renovation req	juired?	Select V	Enter Comment here						
Does this project include an IT c	omponent?	Select V	Enter Comment here						
Is this request for medical equip	ment?	Select V	Enter Comment here						

Business Plan

Answer more extensive questions to justify the expense for the capital project. This information is reflected in the Executive Summary report, which is often used by the Capital Selection Committee.

		ties Department: 26480 (EMC W Cancer Cente		nding Attachments 3	Attachments	Save 🔗 Submit
SETUP	PROJECT	FINANCIAL	SUMMARY	G ^e Ex	ecutive Summary 茾 Routing	(*) Indicates a required field
Description	Details Picklist	s Capital Questions	Business Plan			
E	0					
Executive	e Summary					
Enter a brief ex	ecutive summary for the	e project.	Key component of ou	ur mission is to provide leading clinical and research services to the community.		
Relations	hip to Mission 8	& Value Statemer	nts			
the health syste	nd Our Community Gare Service	mission and values of	This project focuses to gain additional ma	primarily on the Exceptional Care and Financial Strength value statements as we have the opportunity rket share in a short period of time while greatly expanding our services offered for cancer treatment.		
Relations	hip to Strategic	and/or IT Plan (F	Reference Strate	egic Goal / Strategy / Objective)		
Relate the prop goals of the he	oosed service/project to alth system.	the overall strategic	Strategic Goal #2: Ac	dvance our clinical and research initiatives through expansion of the Cancer Center.		

2. In the Financial tab, complete the following sub-tabs, as applicable:

Financial Inputs

This tab is segmented into up to 13 additional sub-tabs where you enter capital pricing details. If there are more sub-tabs than the system can display, click the drop-down in the upper right corner of the screen to select other available sub-tabs.

NOTE: Not all of the sub-tabs you see in the example above will display in your system. What you see depends on how your organization has set up the system. Your organization can add tabs later, as needed.

CAPREQ 3 Project Typ Sterilizer	APREQ 3 Project Type: Central Sterile Department: 17840 (BHS Sports Medicine) Status: Pending Attachments 0 Sterilizer Sterilizer Save													
SETUP		FINANCIAL	SUMMAR	Y							C [®] Executive Sun	nmary 茾 Rou	uting (*) Indicates	a required field
Financial Inputs*	Balance Sheet	Financial Statemen	ts Discount	Rate										Ø
Capital Additions	Funding Sources	Volume Gross C	harges Contr	actual Allowan	ces Other C	perating Revenue	Salaries &	FTEs Profes	sional Fees	Supplies F	Purchased Services	Other Exp	ense 🔻	≡ ≎
Volume													Ť	
			2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Comments	
+ Insert Payor														
Inpatient Ancillary Drive	r		Procedures											
Outpatient Driver			Visits											
Payor Default Name			Customized Name											

For more information and instructions for each tab, see the following:

- Capital Additions
- Funding Sources
- Volume
- Gross Charges
- Contractual Allowances
- Other Operating Revenue
- Salaries & FTEs
- Professional Fees
- Supplies
- Purchased Services
- Other Expense
- Statement of Revenue and Expenses
- Capital Summary

For additional instructions related to this tab, see the following:

- Set forecast years
- Add additional Financial input sheets
- Refresh additional Financial input sheets
- Balance Sheet

Enter debt, assets, and expenses related to the project for each upcoming fiscal year. Inputs include the following:

- Long-Term Debt Additions
- Current Maturities of Debt
- Interest Expense
- Unrestricted Net Assets
- Unrestricted and Board Designated Investments

CAPECO 2: Project Type: Engineering / Facilities: Descriment 26480 (DMO O/P Oncology) Elatus Pending: Attachments 3 Master Facility Plan, New Cancer Center Attachm												ttachments	Save 🔗 Submit
	PROJECT	FINANCIAL	SUMMARY							C ^a Exe	cutive Summa	ry 茾 Routing	(*) Indicates a required fie
Financial Inputs	Balance Sheet	Financial Statements	Discount Ra	ate									Ø
		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Comments	
Long - Term Debt Endi	ng Balance												
New Debt Detail 2		0	0	0	0	0	0	0	0	0		D	
New Debt Detail 3		0	0	0	0	0	0	0	0	0		D	
New Debt Detail 4		0	0	0	0	0	0	0	0	0		D	
Total Long Term Debt		0	0	0	0	0	0	0	0	0		D	
Current Maturities of [Debt												
Current Maturities o	f New Debt 2	0	0	0	0	0	0	0	0	0	0		
Current Maturities o	f New Debt 3	0	0	0	0	0	0	0	0	0	0		
Current Maturities o	f New Debt 4	0	0	0	0	0	0	0	0	0	0		
Total Current Maturiti	es	0	0	0	0	0	0	0	0	0		D	
Interest Expense													
Interest Expense on	New Debt Detail 2	0	0	0	0	0	0	0	0	0	0		
Interest Expense on	New Debt Detail 3	0	0	0	0	0	0	0	0	0	0		
Interest Expense on	New Debt Detail 4	0	0	0	0	0	0	0	0	0	0		
Total Interest Expense		0	0	0	0	0	0	0	0	0		D	
Capitalized Interest Ex	pense to Balance Sheet	0	0	0	0	0	0	0	0	0	0		
Capitalized Interest Ex	pense to be Depreciated	0	0	0	0	0	0	0	0	0	0		
Interest Expense to P8	iL.	0	0	0	0	0	0	0	0	0		D	

Financial Statements

Displays the projected impact of the project for each upcoming fiscal year. At the bottom of the page, you can input data for the following:

- NPV and Financial Metrics:
 - Perpetuity Cash Flow Change
 - Total Project Life for NPV
 - Capital Investment Detail
- Performance Tracking Measures

		ies Department: 26480 (EMC W Cancer Cente		us: Pending At	tachments: 3						A	ttachments	Save 🔗 Submit
	PROJECT	FINANCIAL	SUMMARY							C [#] Exec	cutive Summar	y 芉 Routing	(*) Indicates a required field
Financial Inputs	Balance Sheet	Financial Statements	Discount Ra	te									C
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
Statement of Revenue	& Expense												
Patient Revenue													
Inpatient Services			0	0	5,660,875	6,330,273	7,112,062	7,990,402	9,019,166	10,180,384	11,491,108	12,970,588	
Outpatient Services			0	0	3,847,500	4,241,869	4,676,660	5,205,123	5,793,302	6,508,775	7,312,608	8,215,715	
Gross Patient Revenue			0	0	9,508,375	10,572,142	11,788,723	13,195,525	14,812,468	16,689,158	18,803,716	21,186,304	
Deductions from Patier	nt Revenue												
Contractual Discount	ts		0	0	8,431,075	8,592,603	9,701,299	10,973,319	12,446,720	14,146,774	16,071,440	18,249,881	
Bad Debt			0	0	95,084	105,721	117,887	131,955	148,125	166,892	188,037	211,863	
Provision for Charity			0	0	0	0	0	0	0	0	0	0	
Total Deductions from	Revenue		0	0	8,526,159	8,698,325	9,819,186	11,105,274	12,594,844	14,313,665	16,259,477	18,461,744	
Net Patient Revenue			0	0	982,216	1,873,817	1,969,536	2,090,251	2,217,624	2,375,493	2,544,239	2,724,559	
Premium Revenue			0	0	0	0	0	0	0	0	0	0	
Other Operating Rev	enue		0	0	0	0	0	0	0	0	0	0	
Total Operating Reve	enue		0	0	982,216	1,873,817	1,969,536	2,090,251	2,217,624	2,375,493	2,544,239	2,724,559	
Operating Expenses													
Salaries and Wages			0	5	-779,965	-811,243	-844,970	-881,688	-921,557	-965,250	-1,012,100	-1,062,392	
Employee Benefits			0	12,500	14,606	15,064	15,539	16,031	16,541	17,070	17,617	18,185	
Contract Labor			0	0	780,000	811,279	845,006	881,725	921,594	965,288	1,012,138	1,062,431	
Professional Fees			0	100,000	102,000	104,040	106,121	108,243	110,408	112,616	114,869	117,166	

Discount Rate

Displays questions used to determine the risk factors of a project. For each question, click the toggle to **Yes** or **No** if the question applies to your project.

NOTE: Depending on how your organization has configured the project template, questions with asterisks may be required before you can save the project request.

	ing_124 CAPREQ 124 Pro chase,For New		I Department: 190	100 (EHS Adr	ministration) (Status: (Attachments: 0 Attachments	Save	Ø Submit
	PROJECT	FINANCIAL	SUMM		C Executive Summary 茾 Routing	(*) Indica	tes a required fie
inancial Inputs	Balance Sheet	Financial Stateme	nts Discou	int Rate			6
	te: remium (from below): (Discount Rate plus Risk Pr	10.0% 0.0% remium) 10.0%	Low Risk Medium Risk High Risk	3 to 6 Ris	sk factors (0.0% add-on) isk factors (2.0% add-on) isk factors (4.0% add-on)		
Risk Fac	ctor Categories		Yes/No	Descri	iption		
Market Share	1		No		project require the generation of market share from a new demographic or ical market?		
New Project			No	Does this	project represent a new project or service?		
Physician Re	cruitment		No		project require the recruitment of additional physicians or support of physicians not utilizing the local organization?		
Management	Expertise		No	Does the	project require management expertise which must be learned or recruited?		
Specialized P	ersonnel Recruitment		No		project require recruitment of highly skilled clinical or other specialized personnel (e.g., s, neonatal nurses)?		

3. In the **Summary** tab, review the inputs you entered in the Setup, Project, and Financial tabs.

Return to the appropriate tab to make edits, if necessary.

4. To attach files to your request, at the top of the page, click Attachments.

		ies Department: 26480 (EM w Cancer Cente		Save 🔗 Submit
	PROJECT	FINANCIAL	I Executive Summary ≠ Routing	(*) Indicates a required field

- a. For each file to upload, in the File Attachments dialog, click +Upload Attachment.
- b. In the Open File dialog, select the file, and click Open.
- c. Click Close.
- 5. At the top of the page, do one of the following:
 - To save your changes before submitting your project request for approval, click Save.
 - To save and submit your project request for approval, click Submit.

CAPREQ 2 Project	Type : Engineering / Facilit	es Department: 26480 (EM	0/P Oncology) Status: Per			
Master Fa	cility Plan Nev	v Cancer Cente		Attachments	Save	Submit
indotor r d			"			
SETUP	PROJECT	FINANCIAL	SUMMARY	C Executive Summary 茾 Routing	(*) Indica	es a required field

6. When you submit the request, the system displays a dialog that shows you the next step in the approval process. Enter comments to add to the request, if necessary, and click **Submit**.

Submit CAPREQ 3 Bed, Bariatric Beds	ж
1 Owner	\longrightarrow 2 VP
Current Step	Next Step Step Owner: Sally Klein No due date
Comments	
	Submit Cancel

Viewing the Executive Summary report

Click the Executive Summary link in the upper right corner of the page to open the Executive Summary report.

NOTE: By default, the system is set up to link to this report, however, your administrator may customize it to open another report - including a custom report created by your organization. This may include renaming the link.

CAPREO 2 Projec	t Type : Engineering / Facilit	ies Department: 26480 (EM	C O/P Oncology) Status: Per	ndina Attachments: 3			
		w Cancer Cente			achments	Save	 Submit
					1-		
SETUP	PROJECT	FINANCIAL	SUMMARY	C [*] Executive Summary	y 🕈 Routing	(*) Indica	ates a required field

~								~10	
Cap	pital Planning						-9	1 U	AXIOM
≡	₹ ۶							☆	2 ?
	Master Facility Pla 2021 Capital Planning Process		enter West: Overview					wnload PDF f the report	1
	OVERVIEW	BUSINESS PLAN	STMT OF REVENUE AND EXPENSES	BALANCE SHEET	CASH FLOW STMT	KEY STATISTICS		NPV AND METRICS	
	Total Requested: \$11,125,000 2020 Requested: \$0	Creator: Evan Klein VP: Admin	Department of Hospital: EMC C)/P Oncology (26480)					
	Key Numbers								^
	Net Present Value at 12%	-\$8,758,178.76							
	Return Efficiency	-78.7%							
	1st Year of Positive Cashflow	NA							
	Internal Rate of Return (IRR)	-22.72%							
	Payback	0.0							
	Project Details								
	Long Description (X):	New Cancer Center that will be	on the east side of the city						
	Justification X:	St. Mary's has expanded their ca	ancer services over the last 3 years, and we need a new	w facility to remain competitive while	jumping on the opportunity to increase	e market share.			
	Class:	Regulatory Mandate							
	Reason:	Strategic Plan							
	Category:	Construction							
	Priority:	Create/Maintain Marketability							
	Decision Matrix								
	Impact on Patient and/or Physician Satisfaction this is a long txt and is nearly 100 characters long:	NA	NA						
	Quality, Safety & Compliance Effectiveness:	NA	NA						~

From his page, you can view the details of the report as well as print a PDF.

Viewing process status and details for the project

Click the Routing link in the upper right corner of the page to open the Process Routing page, which allows you to view the current process status and details for a particular capital project or purchase request. If you are the current step owner, you can also complete the task from this page. If you are an administrator, you can complete the task for the current step owner and/or move the step to another step in the process. For more information, see Viewing process routing details.

CAPREQ 2 Project	Type : Engineering / Facilit	ies Department: 26480 (EM	C O/P Oncology) Status: Pe	nding Attachments: 3			·
Master Fa	cility Plan.Nev	w Cancer Cente		Attachm	ents	Save	⊘ Submit
		FINANCIAL		C [*] Executive Summary	Poutin		required field
		FINANCIAL	SUMMARY	B Executive Summary T	Nouting	9	

Capital Additions tab

This tab is accessed in the project plan file, in the Financial Inputs tab.

Project ID Pending CAP	PREQ 2 Project Type	Cardiology	Department: 1788	0 (EPG Phys Clinic	-North) Status: F	Pending Attachme	nts: O								
		FI	NANCIAL		Y										
Financial Inputs*	Balance Sheet	Fina	ncial Statements	Discount	Rate										
Capital Additions Fu	unding Sources	Volume	Gross Charges	Contractual /	Allowances (Other Operating I	Revenue Salai	ies & FTEs P	rofessional Fees	Supplies	Purchased Services	Other Expens	se Stateme	ent of Revenue and Expenses	Capital Summary
Capital Ad	ditions														
				2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Comments	
+ Insert Capital Spending	3														
Capitalization Detail			Show												
1/2 Year D	Depreciation	¥													
Equipment				Useful Life											
Description				10											
Additions				0	0	0	0	0	0	0	0	0	0		
Capitalization				0	0	0	0	0	0	0	0	0	0		
Work in Progress				0	0		C		0 0		0 0	0		0	
Depreciation - New				0	0		C		0 0		0 0	0		0	
Depreciation - Drop Off				0	0		C		0 0		0 0	0		0	
Total Depreciation				0	0	u 0	C		0 0		0 0	0		0	
Depreciation Expe	ense Analysis														
New Depreciation (1/2 Ye	ear Depreciation Conv	vention)		0	0	0 0	C		0 0		0 0	0		0	
Drop off Due to Asset Disp	posal			0	0	0	C		0 0		0 0	0		0	
Total Depreciation				0	0	. 0	0		0 0		0 0	0		0	
Work in Progress	;														
Beginning					0	0	C		0 0		0 0	0		0	
Additions				0	0	0 0	C		0 0		0 0	0		0	
Capitalizations				0	0		C		0 0		0 0	0		0	
Ending				0	0	0	C		0 0		0 0	0		0	

NOTE: The system allows you to make a copy of the Financial Inputs tab and rename it. This allows you to model different scenarios in your project. As a result, you may see several versions of the Financial Inputs tab with different names in the project plan.

Use this tab to enter details regarding the capital spending items for your project.

To add or edit capital spending items:

- 1. From the drop-down, select the depreciation type to use for your items: Full Year Depreciation, 1/2 Year Depreciation, Monthly Input.
- 2. To insert an item, click + Insert Capital Spending.
- 3. From the Calc Method Variables dialog, select the project item type from the list, and click Apply.
- In the Capitalization Detail row, click the Show/Hide toggle to show or hide the capitalization detail, including the Work in Progress, New and Drop Off Depreciation, and Total Depreciation rows.

NOTE: Click the toggle to **Show** to adjust capitalization. By default, capitalization will occur in the same year as additions.

5. In the **Description** field under the item name, type a description of the item, if needed.

6. In the Useful Life field, type the number of years the item will remain in service.

NOTE: Depending on how your organization has configured your project template and your role profile, this field may not display.

- 7. In each column, enter the capitalization amount for the applicable years.
- 8. After making any changes, click **Save** in the upper right corner of the page.

At the bottom of the tab, the page displays the following:

Depreciation Expense Analysis

Shows the calculated depreciation amount based on the useful life, the methodology you selected, and when items are capitalized. This information will show up on your income statement.

Work in Progress

Shows the dollars that you have spent but not yet capitalized.

Funding Sources tab

This tab is accessed in the project plan file, in the Financial Inputs tab.

	(Test Dept) Status: Pendi	ng Attachments	C1									
SETUP PROJECT FINANCIAL	SUMMARY											
Financial Inputs* Test Balance Sheet Financial	Statements Dis	count Rate										
apital Additions Funding Sources Volume Gross Charges	Contractual Allow	ances Other	Operating Reve	nue Salaries	& FTEs Pro	ofessional Fees	Supplies	Purchased Services	Other Expense	Statemen	nt of Revenue and Expenses	Capital Summary
Funding Sources												
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Comments	
Insert Funding Source												
Insert Funding Source loutine Capital	85,000	-12,000	0	0	0	0		0 0	0	0		
	85,000	-12,000	0	0	0	0	0		0	0		

NOTE: The system allows you to make a copy of the Financial Inputs tab and rename it. This allows you to model different scenarios in your project. As a result, you may see several versions of the Financial Inputs tab with different names in the project plan.

Use this tab to maintain the funding sources for the project.

The page displays a default funding source. If you add more funding sources, any amounts you add will be removed from the default funding source.

To add or edit a funding source:

- 1. To add a funding source, click + Insert Funding Source.
- 2. From the Calc Method Variables dialog, select the funding source, and click Apply.
- 3. In each column year, type the funding source amount.
- 4. In the **Comments** column, enter further details, if necessary.

5. After making any changes, click **Save** in the upper right corner of the page.

Volume tab

This tab is accessed in the project plan file, in the Financial Inputs tab.

Project ID Pending IC		pe : Cardiolo	gy Department: 4 (1	Test Dept) Status	: Pending Atta	chments: 1									
					_										
		FI	NANCIAL		IY.										
Financial Inputs*	Test Ba	lance Sheet	Financial	Statements	Discount R	tate									
Capital Additions	Funding Sources	Volume	Gross Charges	Contractual	Allowances	Other Operating	Revenue Sa	laries & FTEs	Professional Fees	Supplies	Purchased Services	Other Expense	Stateme	nt of Revenue and Expenses	Capital Summa
Volume															
				2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Comments	
				2020	2021	2022	2025	2024	2025	2026	2027	2020	2029	Comments	
Insert Payor															
Inpatient Ancillary Drive	er			Procedures											
Outpatient Driver				Visits											
Payor Default Name			c	Customized Name											
Medicare				Medicare											
Commercial				Commercial											
Self Pay				Self Pay											

NOTE: The system allows you to make a copy of the Financial Inputs tab and rename it. This allows you to model different scenarios in your project. As a result, you may see several versions of the Financial Inputs tab with different names in the project plan.

Use this tab to view and adjust patient volume by payor.

To adjust volume:

- 1. To insert a payor, click + Insert Payor.
- 2. From the Calc Method Variables dialog, select the payor from the list, and click Apply.
- 3. In the Inpatient Ancillary Driver and Outpatient Driver field, type the drivers to use for each.

NOTE: By default, the system has been set up with drivers entered in these fields.

- 4. For each payor default name, enter a name in the **Customized Name** field that best fits your organization, if needed.
- 5. For each section, enter rate and/or volume adjustments in the blue cells.

You can use the **Volume Adjustment** row to add or subtract values from the Total Inpatient Charges, Total Inpatient Procedures, Total Outpatient Visits, and Total % Discharges by Payor cells.

For example, the Total Inpatient Procedures for 2025 is expected to be 1,000. For 2026, the organization expects 1,500. Instead of entering 1,500, the user can just enter 500 in the Volume Adjustment row. This allows users to easily adjust volume amounts without having to enter totals for each year.

6. In the **Comments** row, enter details, as needed.

7. After making any changes, click **Save** in the upper right corner of the page.

At the bottom of the page, an income statement displays, summarizing the impacts of the project.

Gross Charges tab

This tab is accessed in the project plan file, in the Financial Inputs tab.

Project ID Pending CAPREQ 67 Project Type : Cardiology Department:	4 (Test Dept) Statu:	Pending Attachn	nents: 1									
SETUP PROJECT FINANCIAL	SUMMA	RY										
Financial Inputs* Test Balance Sheet Financi	al Statements	Discount Rate										
Capital Additions Funding Sources Volume Gross Charg	es Contractual	Allowances C	ther Operating R	evenue Salari	ies & FTEs Pr	ofessional Fees	Supplies Pr	rchased Services	Other Expens	se Stateme	nt of Revenue and Expenses	Capital Summary
Gross Charges												
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Comments	
Inpatient Revenue Inflation												
Global Assumption		5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	6	
Adjustment to Global Inflation		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Inpatient Revenue Inflation Rate		5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.09	6	

NOTE: The system allows you to make a copy of the Financial Inputs tab and rename it. This allows you to model different scenarios in your project. As a result, you may see several versions of the Financial Inputs tab with different names in the project plan.

Use this tab to input growth-rate adjustments to inpatient and outpatient revenue at the global level as well as by day, procedure, and/or visit. This determines the rate to associate with the volume in the Volume tab to determine your organization's revenue.

To adjust gross charges:

- 1. In each blue cell, enter the adjustment percentage or dollar amounts for each revenue type, as needed.
- 2. In the **Comments** column, enter further details, if needed.
- 3. After making any changes, click **Save** in the upper right corner of the page.

At the bottom of the page, you can view Total Inpatient Revenue, Total Inpatient Procedure Revenue, and Total Outpatient Revenue.

Contractual Allowances tab

This tab is accessed in the project plan file, in the Financial Inputs tab.

Project ID Pending CAPREQ 67 Project Type : Cardiology	Pepartment: 4 (Test Dept) Statu	s: Pending Attachn	ents: 1									
SETUP PROJECT FINAL	NCIAL SUMMA	RY										
Financial Inputs* Test Balance Sheet	Financial Statements	Discount Rate										
Capital Additions Funding Sources Volume G	ross Charges Contractua	Allowances 0	ther Operating R	evenue Salari	es & FTEs Pro	ofessional Fees	Supplies Pu	rchased Services	Other Expense	statemen	t of Revenue and Expenses	Capital Summary
Contractual Allowances												
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Comments	
Medicare												
Medicare Inpatient Po	t Charges 🔻											
Global Inflation Assumption	t Charges 🛛 👻	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%		
	t Charges 👻	0.0%	0.0%	1.0%	1.0%	0.0%	1.0%	0.0%	1.0%	1.0%		

NOTE: The system allows you to make a copy of the Financial Inputs tab and rename it. This allows you to model different scenarios in your project. As a result, you may see several versions of the Financial Inputs tab with different names in the project plan.

Use this tab to manage reimbursement adjustments from your default payors to model out your reimbursements from year to year.

To make adjustments to payor reimbursements:

- 1. From the drop-down next to the Inpatient, Inpatient Ancillary, and Outpatient sections for each payor, select how you want to model out the reimbursements by selecting one of the following:
 - Payor Name Inpatient: Pct Charges, Per Case, Per Diem, Lump Sum
 - Payor Name Inpatient Auxiliary: Pct Charges, Lump Sum, Per Procedure
 - Payor Name Outpatient: Pct Changes, Lump Sum, Per Visit
- 2. In each blue cell, enter a percentage or amount adjustment, as needed.
- 3. At the bottom of the page, in the **Bad Debt** and **Charity** section, make adjustments for bad debt and charity, which are calculated as a percentage of gross charges.
- 4. In the **Comments** column, enter further details, if necessary.
- 5. After making any changes, click **Save** in the upper right corner of the page.

Salaries & FTEs tab

This tab is accessed in the project plan file, in the Financial Inputs tab.

Project ID Pending CAPRE	EQ 67 Project Type : Cardio	ology Department: 4	(Test Dept) Status	Pending Attachn	nents: 1									
Angioplasty S														
SETUP	PROJECT	FINANCIAL	SUMMAR	Y										
Financial Inputs*	Test Balance Sh	eet Financial	Statements	Discount Rate	9									
Capital Additions Fun	ding Sources Volume	e Gross Charge:	Contractual	Allowances C	ther Operating I	Revenue Salar	ies & FTEs Pr	rofessional Fees	Supplies P	urchased Service	s Other Exper	se Stateme	nt of Revenue and Expenses	Capital Summary
o I ·														
Salaries & F	-IES													
			2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Comments	
+ Insert Salary														
Other FTEs		Var Driver												
Productivity Adjustment		Discharges	•	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Variable FTE Adjustment				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Variable FTEs (Discharges	в)	100.00%	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0)	

NOTE: The system allows you to make a copy of the Financial Inputs tab and rename it. This allows you to model different scenarios in your project. As a result, you may see several versions of the Financial Inputs tab with different names in the project plan.

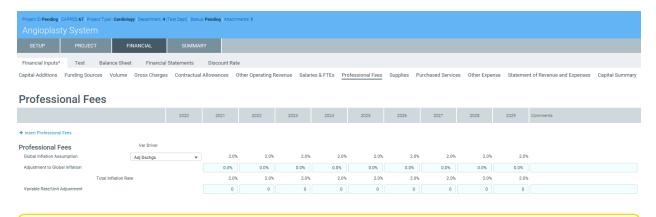
Use this tab manage the salary adjustments for variable and fixed FTEs.

To forecast salaries:

- 1. To add a salary, click + Insert Salary.
- 2. From the Calc Method Variables, select a salary type from the list, and click Apply.
- 3. In the first column of the Variable FTEs, enter the number of variable FTEs.
- 4. In the **Fixed FTEs** row, enter the number of fixed FTEs.
- 5. In the Annual Salary/FTE row, enter the salary associated with the FTE.
- 6. In the **Productivity Adjustment** row, from the **Var Driver** drop-down, select the driver to use to driver your variable FTEs.
- 7. In each blue cell for each year, enter the variable and fixed adjustments for each column, as needed.
- 8. In the Comments column, enter further details, if necessary.
- 9. After making any changes, click **Save** in the upper right corner of the page.

Professional Fees tab

This tab is accessed in the project plan file, in the Financial Inputs tab.



NOTE: The system allows you to make a copy of the Financial Inputs tab and rename it. This allows you to model different scenarios in your project. As a result, you may see several versions of the Financial Inputs tab with different names in the project plan.

Use this tab manage the adjustments for variable and fixed professional fees.

To forecast professional fees:

- 1. To add a professional fee, click + Insert Professional Fees.
- 2. From the Calc Method Variables, select a fee type from the list, and click Apply.
- 3. In the Variable Rate per Unit row, in the first column, enter a rate.
- 4. In the Fixed Expense row, in the first column, enter a fixed dollar amount.
- 5. In the **Global Inflation Assumption** row, from the **Var Driver** drop-down, select the driver to use to calculate the variable or fixed fee expense.
- 6. In each blue cell for each year, enter the variable and fixed adjustments for each column, as needed.
- 7. In the Comments column, enter further details, if necessary.
- 8. After making any changes, click **Save** in the upper right corner of the page.

Supplies tab

This tab is accessed in the project plan file, in the Financial Inputs tab.

ary

NOTE: The system allows you to make a copy of the Financial Inputs tab and rename it. This allows you to model different scenarios in your project. As a result, you may see several versions of the Financial Inputs tab with different names in the project plan.

Use this tab manage the adjustments for variable and fixed supplies.

To forecast supplies:

- 1. To add a supply, click + Insert Supply.
- 2. From the Calc Method Variables, select a supply type from the list, and click Apply.
- 3. In the Variable Rate per Unit row, in the first column, enter a rate.
- 4. In the **Fixed Expense** row, in the first column, enter a fixed dollar amount.
- 5. In the Global Inflation Assumption row, from the Var Driver drop-down, select the driver to use

to calculate the variable or fixed supply expense.

- 6. In each blue cell for each year, enter the variable and fixed adjustments for each column, as needed.
- 7. In the **Comments** column, enter further details, if necessary.
- 8. After making any changes, click **Save** in the upper right corner of the page.

Purchased Services tab

This tab is accessed in the project plan file, in the Financial Inputs tab.

	e : Cardiology Department: 4 (Test Dept) Statu:	Pending Attachm	ients: 1									
SETUP PROJECT	FINANCIAL	SUMMAR	RΥ.										
Financial Inputs* Test Bala	nce Sheet Financial	Statements	Discount Rate										
Capital Additions Funding Sources	Volume Gross Charges	Contractual	Allowances O	ther Operating R	evenue Salarie	es & FTEs Pro	ofessional Fees	Supplies Pu	rchased Services	Other Expense	e Statemer	t of Revenue and Expenses	Capital Summary
Purchased Service	s												
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Comments	
Insert Purchased Services													
Insert Purchased Services Purchased Services	Var Driver												
	Var Driver Equiv Pt Days	¥	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%		
Purchased Services		¥	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%		

NOTE: The system allows you to make a copy of the Financial Inputs tab and rename it. This allows you to model different scenarios in your project. As a result, you may see several versions of the Financial Inputs tab with different names in the project plan.

Use this tab manage the adjustments for variable and fixed purchased services.

To forecast purchased services:

- 1. To add a supply, click + Insert Purchased Services.
- 2. From the Calc Method Variables, select a purchased supply type from the list, and click Apply.
- 3. In the Variable Rate per Unit row, in the first column, enter a rate.
- 4. In the Fixed Expense row, in the first column, enter a fixed dollar amount.
- 5. In the **Global Inflation Assumption** row, from the **Var Driver** drop-down, select the driver to use to calculate the variable or fixed purchased services expense.
- 6. In each blue cell for each year, enter the variable and fixed adjustments for each column, as needed.
- 7. In the **Comments** column, enter further details, if necessary.
- 8. After making any changes, click **Save** in the upper right corner of the page.

Other Expense tab

This tab is accessed in the project plan file, in the Financial Inputs tab.

Project ID Pending CAP	PREQ 67 Project Type : I	Cardiology Department: 4 (Test Dept) Status	: Pending Attachm	ents: 1									
	PROJECT	FINANCIAL		tY										
Financial Inputs*	Test Balanc	e Sheet Financial	Statements	Discount Rate										
apital Additions Fi	unding Sources Vo	olume Gross Charges	Contractual	Allowances Of	ther Operating R	evenue Salari	ies & FTEs Pro	ofessional Fees	Supplies Pr	urchased Services	Other Expens	e Statemer	nt of Revenue and Expenses	Capital Summary
Other Expe	ense													
			2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Comments	
Insert Other Expense														
ther Expense		Var Driver												
Global Inflation Assum	ption	Equiv Pt Days	•	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%		
Adjustment to Global In	nflation			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Total Infl	ation Rate		2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%		

NOTE: The system allows you to make a copy of the Financial Inputs tab and rename it. This allows you to model different scenarios in your project. As a result, you may see several versions of the Financial Inputs tab with different names in the project plan.

Use this tab manage the adjustments for other variable and fixed expenses.

To forecast purchased services:

- 1. To add a supply, click + Insert Other Expense.
- 2. From the Calc Method Variables, select an expense type from the list, and click Apply.
- 3. In the Variable Rate per Unit row, in the first column, enter a rate.
- 4. In the **Fixed Expense** row, in the first column, enter a fixed dollar amount.
- 5. In the **Global Inflation Assumption** row, from the **Var Driver** drop-down, select the driver to use to calculate the variable or fixed expense.
- 6. In each blue cell for each year, enter the variable and fixed adjustments for each column, as needed.
- 7. In the **Comments** column, enter further details, if necessary.
- 8. After making any changes, click Save in the upper right corner of the page.

Statement of Revenue and Expenses tab

This tab is accessed in the project plan file, in the Financial Inputs tab.

Project ID Pending I C/ Angioplasty		: Cardiology Department: 4	(Test Dept) Status: Pending	g Attachments: 1				
		FINANCIAL						
Financial Inputs*	Test Balar	ice Sheet Financial	Statements Disco	ount Rate				

Statement of Revenue and Expenses

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Comments
Patient Revenue											
Inpatient Services	\$400,000	\$220,000	\$231,000	\$242,550	\$254,678	\$267,411	\$280,782	\$294,821	\$309,562	\$325,040	
Outpatient Services	0	0	0	0	0	C	0	0	0	0	
Gross Patient Revenue	400,000	220,000	231,000	242,550	254,678	267,411	280,782	294,821	309,562	325,040	

NOTE: The system allows you to make a copy of the Financial Inputs tab and rename it. This allows you to model different scenarios in your project. As a result, you may see several versions of the Financial Inputs tab with different names in the project plan.

Use this tab to review patient revenue, deductions from revenue, and operating expenses for the Financial Inputs tab.

Capital Summary tab

This tab is accessed in the project plan file, in the Financial Inputs tab.

Project ID Pending I Angioplast		: Cardiology Department: 4 (Test Dept) Status: Pe	nding Attac	chments: 1									
SETUP		FINANCIAL	SUMMARY											
Financial Inputs*	Test Balar	nce Sheet Financial	Statements E	iscount Ra	ate									
Capital Additions	Funding Sources	/olume Gross Charges	Contractual Allo	wances	Other Operating R	evenue S	alaries & FTEs	Professional Fees	Supplies	Purchased Services	Other Expense	Statemer	nt of Revenue and Expenses	Capital Summary
Capital S	Summary													
			2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Comments	
Total Requested by Ca	apital Category													

NOTE: The system allows you to make a copy of the Financial Inputs tab and rename it. This allows you to model different scenarios in your project. As a result, you may see several versions of the Financial Inputs tab with different names in the project plan.

Use this tab to view a summary of your capital spending (from the Capital Additions tab) by category in the following areas:

- Total requested
- Total capitalization
- Total depreciation

Adding or renaming additional Financial Input sheets

When creating a Threshold capital project, you can add multiple Financial Input sheets to help you input different financial information for a project. You can also rename the Financial Input and any additional sheets to best suit the needs of your organization.

By default, the financials from each Financial Input sheet that you add flow into the Balance Sheet and Financial Statements worksheets, but you can integrate this functionality in the Settings options for each sheet. If you disable this option, the system will not include the financial information in the Balance Sheet or Financial Statement. By enabling and disabling the Financial Input sheets, you can see what impact each analysis will have on your consolidated analysis by calculating the individual contribution margin and income statement for each sheet.

To add additional Financial Input sheets to a Threshold project:

1. Create a Threshold capital project or open an existing project.

- 2. Click the Financials tab.
- 3. On the right side of the page, click the notepad icon.

CAPREQ 3 Project Ty Sterilizer	/pe : Central Sterile Depa	artment: 17840 (EHS Sports	Medicine) Status: I	Pending Attach	ments: 0							Attachments	Save	
SETUP	PROJECT	FINANCIAL	SUMMAF	۲Y						ď	Executive Sum	mary 茾 Rou	ting ^{(*) Indicates}	s a required field
Financial Inputs*	Balance Sheet	Financial Statemer	ts Discoun	t Rate									-	→ 🕜
Capital Additions	Funding Sources	Volume Gross (harges Cont	ractual Allowa	ances Other O	perating Revenu	e Salaries &	FTEs Profe	ssional Fees	Supplies F	Purchased Services	s Other Expe	ense 🔻	= 0
Volume														
			2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Comments	
+ Insert Payor														
npatient Ancillary Drive	er		Procedures											
Outpatient Driver			Visits											
Payor Default Name			Customized Name											

- 4. In the Manage Financial Sheets dialog, do any of the following, as needed, and click Save:
 - In the New Sheet Name field, type a name for the sheet.
 - In the **Renaming Existing Financial Sheets** section, type a new name for one or more Financial Input sheets.

The new sheet displays as a sub-tab next to the Financial Inputs sub-tab.

CAPREQ 3 Project Type Sterilizer	pe : Central Sterile Dep	artment: 17840 (EHS Sp	ports Medicine) Status: Pending a	Attachments: 0						Attachments	Save	
SETUP	PROJECT	FINANCIAL	SUMMARY					(Z Executive Summary	Routing	(*) Indicate	es a required field
Financial Inputs*	Addl Inputs	Balance Sheet	Financial Statements	Discount Rate								6
Capital Additions	Funding Sources	Volume Gros	ss Charges Contractual A	llowances	Other Operating Revenue	Salaries & FTEs	Professional Fees	Supplies	Purchased Services	Other Expense	🔻	≡ 0

- 5. Configure the settings for additional sheets by doing the following:
 - a. On the left side of the page, click the gear icon.

CAPREQ 3 Project Ty Sterilizer	pe : Central Sterile Dep	artment: 17840 (EHS Sports I	Medicine) Status: Pending	Attachmenta: 0						Attachments	Save	
	PROJECT	FINANCIAL	SUMMARY						C Executive Summa	ary 茾 Routing	(*) Indicates a	required field
Financial Inputs*	Addl Inputs	Balance Sheet Fir	nancial Statements	Discount Rate								6
Capital Additions	Funding Sources	Volume Gross Ch	narges Contractual A	llowances Other Op	erating Revenue	Salaries & FTEs	Professional Fees	Supplies	Purchased Services	Other Expense	🔻	= 0

b. In the Settings dialog, do the following, as needed:

Option	Description
Integrated Financials	 To include the results in the Balance Sheet and Financial Statements sheet, from the drop-down, select Yes. NOTE: This is set to Yes by default. To exclude the results from the Balance Sheet and Financial Statements sheet, from the drop-down, select No. TIP: To analyze different Financial Input scenarios, you can integers to this functional in for each sheet the two or odd.
Pro Forma Start Year	integrate this functionality for each sheet that you add.
PTO FOITIld Start fear	The start year for the project.
	NOTE: You cannot edit this field. It is assumed that any additional Financial Input tabs that you add apply to the same start year.
Input Years	The default input years for the project based on the template configurations set up by your organization.
Input Years	To change the input years, from the drop-down, select a number.

- c. Click OK.
- 6. Complete the fields in the tab using the instructions in the following topic .
- 7. Complete steps 3-6 for each new sheet to add to your project.
- 8. After making your changes, in the upper right corner of the page, click Save.

IMPORTANT: When you add additional Financial Input sheets, you will need to refresh each sheet when the Pro Forma Start Year is changed in the original Financial Inputs sheet. For more information, see Refreshing additional Financial Input sheets.

Transferring capital projects with additional Financial Input sheets to Axiom Capital Tracking

When transferring capital project plan files that include additional or renamed Financial Input sheets to Capital Tracking, the tab names will display CP_source file group year_sheet name, as shown in the following example:

	ng_167 CAPREQ 203 So Process Indica	urce CAPREQ: 167 Project T NTOT	ype : Central Sterile Departr	ment: 8 (Test Dept) Status:	Pending Attachments: 0	
SETUP	PROJECT	FINANCIAL	SUMMARY	TRACKING		
CP2021_167_Fina	ancial Inputs CP2	2021_167_Phase 2	Balance Sheet Fin	ancial Statements	Discount Rate	
Capital Additions	Funding Sources	Volume Gross Charge	s Contractual Allowa	nces Other Operating	g Revenue Salaries & FTEs	Pro

Also, when transferring multiple Capital Project plan files to an existing Capital Tracking plan file, the **Source CAPREQ** area at the top of the plan file page displays "Multi" as shown in the following example:



Refreshing additional Financial Input sheets

If your Threshold capital plan includes additional Financial Input sheets, you need to refresh them if you change the Pro Forma Start year in the original Financial Inputs page.

TIP: When you change the start year, the system will display a warning in the Settings dialog to refresh each additional Financial Input sheet.

To refresh additional Financial Input sheets:

- 1. In the Financial Inputs tab, change the Pro Forma start year.
- 2. Navigate to the additional Financial Input sheet.
- 3. For each additional sheet, click the refresh icon on the right side of the page.

Project ID Pending	CAPREQ 7 Project Type :	Central Sterile Department:	7 (4) Status: Pending A	ttachments: 0									-	_
												Submit Atta	chments	Save
SETUP	PROJECT	FINANCIAL	SUMMARY								C.	Executive Summary 🖛 Routing	(*) Indicates	s a required field
Financial Inputs	Addi Inputs Bal	ance Sheet Financia	al Statements D	iscount Rate										a
Capital Additions	Funding Sources	Volume Gross Charge	s Contractual Allo	vances Other Opera	ing Revenue S	alaries & FTEs	Professional Fees	Supplies	Purchased Services	s Other Exp	ense Staten	nent of Revenue and Expenses		£∎ ¢
Capital A	dditions													
			2023	2024 2025	2026	2027	2028	2029	2030	2031	2032	Comments		
+ Insert Capital Spen	idina													

Setting forecast years in a Threshold project

Use this option to configure a driver to include a forecast between three and ten years of projections.

To set forecast years in a Threshold project:

- 1. Create a Threshold capital project or open an existing project.
- 2. Click the Financial tab.
- 3. In the **Financial Inputs** sub-tab, click the gear icon on the right side of the page.

actur Providui Providui Summert E Electric Summert	CAPREQ 3 Project Type : Central Sterile Depa Sterilizer	rtment: 17840 (EHS Sports M	edicine) Status: Pending A	ttachments: 0									Attachments Save
Capital Additions Funding Sources Volume Gooss Charges Contractual Allowances Other Operating Revenue Salaries & FTEs Professional Fees Supplies Purchased Services Other Expense Statement of Revenue and Expenses Capital Summary	SETUP PROJECT	FINANCIAL	SUMMARY										E* Executive Summary = Routing
	Financial Inputs* Addl Inputs	Balance Sheet Fin	ancial Statements	Discount Rate									C
Gross Charges	Capital Additions Funding Sources V	olume Gross Charges	Contractual Allowance	es Other Operating Rev	nue Salaries & FTE	s Professional Fees	Supplies	Purchased Services	Other Expense	Statement	of Revenue and Expenses	Capital Summary	1
	Gross Charges												

4. In the **Settings** dialog, do the following, as needed:

Option	Description
Integrated Financials	 To include the results in the Balance Sheet and Financial Statements sheet, from the drop-down, select Yes. NOTE: This is set to Yes by default
	 NOTE: This is set to Yes by default. To exclude the results from the Balance Sheet and Financial Statements sheet, from the drop-down, select No.
Pro Forma	Select the year the project will start.
Start Year	IMPORTANT: If the plan file includes additional Financial Input sheets, the system displays a warning message that you need to refresh each additional Financial Inputs tab that was added to the plan file. For more information, see Refreshing additional Financial Input sheets.
Input Years	The default input years for the project based on the template configurations set up by your organization.
Input Years	To change the input years, from the drop-down, select a number.

- 5. Click **OK**.
- 6. After making your changes, in the upper right corner of the page, click Save.

Entering performance tracking measures in a Threshold project

In Threshold projects, you can enter planned items that you want to track over the life of the project. For example, let's say your organization wants to track the number of hospital beds that will be added as a result of a specific project.

To enter performance tracking measures in a Threshold project:

- 1. Open or create a Threshold project.
- 2. In the Financial tab, click the Financial Statements tab.

Project ID Pending I C Contingence		EQ: NA Project Type : Contine	gency Departme	nt: 99 (Test Dept) Status: Pending	Attachments: 0							Ø Submit A	Attachments Save
		FINANCIAL	SUMM	/	TRACKING							C" E	xecutive Summary 荓 Routin	g (*) Indicates a required field
Financial Inputs	Balance Sheet	Financial Statements	Discount	Rate										8
			2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
Additional Capital In	restment	0												
Investment Year		2030 💌												
+ Insert Capital Inve	stment Detail													
NPV		0												

- 3. In the **Performance Tracking Measures** section at the bottom of the page, complete the following for each measurement you want to track:
 - a. In the Input Format field, type the measure name. For example, Number of Beds.
 - b. From the drop-down, select the measure value type to track.
 - c. In the current year column (the first year column) and for each subsequent year, type the value to track.

Performance Tracking Measures										
	202	0 2021	2022	2023	2024	2025	2026	2027	2028	2029
Performance Tracking Measure 1		Select measuren	nent type							
Input Format	Numeric 🔻	~								
measure hospital beds	0	100 200	300	0	0	0	0	0	0	0
Per Type a name for the measurement	Numeric 🔻	Type a value for needed, starting	or each year colo with this cell (cur	umn, as rrent year)						
	0	0 0	U	U	0	0	0	0	0	0

4. Click Save.

The measure you enter here are included in the Retrospective Comprehensive Update report.

Managing attachments for capital project requests

Your capital project request may require that you include supporting files and other documentation. In the Capital Project

To manage attachments for capital project requests:

- 1. Create or modify a capital project plan.
- 2. Click the Attachments button in the upper left corner of the page.

Project ID CP_Pending_4 (CAPREQ 4) Project Type: Engineering / Facilities (Department 26480 (EMC 0/P Choology)) (Status Approved (Attachments 0 Master Facility Plan, New Cancer Center West					→[Attachments	Save
	PROJECT	FINANCIAL	SUMMARY		C Executive Summary 📫 Routir	ng (*) Indicates	a required field

- 3. Do any of the following:
 - Upload an attachment Click + Upload Attachment. Select the file to upload, and click Open.
 - Download an attachment Hover your mouse cursor near the file name, click the down arrow icon. Open or save the document to your workstation.
 - Edit an attachment Hover your mouse cursor near the file name, and click the notepad icon. Edit the file name and/or description, and click OK.
 - **Delete an attachment** Hover your mouse cursor near the file name, and click the trashcan icon. At the confirmation prompt, click **OK**.
 - Refresh attachment list Click the circular arrows 😂 icon.



4. After making your changes, click Close.

Opening a current year non-budgeted project

To open a current year non-budgeted project:

1. From the Axiom Capital Tracking home page, click Create or Open Capital Projects.

NOTE: To access this location from the Cap Tracking Admin task pane, in the Capital Tracking Commands section, double-click Create or Open Capital Project.

acking							III 🕫 🗘 💷
is Summary - Capital	Tracking		Process Sun	nmary - Purcha	se Requests		
O New	0 Due Soon 0 Ov	erdue	O Total	0 New		0 Due Soon	0 Overdue
Plan File Directory	Capital Plan File Management: View Plan File Direc (CapitalTracking) View Capital Tracking Projects.	story	Plan File	Directory	(Purchase	an File Management: View P Requests) hase Requests.	an File Directory
or Open Capital Projecta	Capital Plan File Management: Create or Open Cap Capital Projects will open in a new window.	ital Tracking Project	Create (Purchase			an File Management: Create Requests will open in a new	
oy or Transfer Capital Projects	Capital Plan File Management: Copy or Transfer C Copy Capital Projects from one File Group to anoth You can also use this utility to transfer Capital Proj Planning File Groups to Capital Tracking.	er.	Launch Capital	Transfer Utility		-	the Capital Transfer Utility r funds between capital projects.
unch Capital Dashboard	Capital Reports: In this Dashboard, you will see a summary and ana Tracking process.	lysis of your Capital	Launch Cap Summar	tal Tracking y Report	In this repo	ports: Launch the Capital Tr ort, you will be able to view a ssociated Purchase Reques	summary of all Capital Tracking
Edit Drivers	Capital System Administration: Adjust the Capital Adjust the Drivers for your Capital Tracking File Gr Capital Planning installed, this will open the CP Nex	up. NOTE: if you have	Edit D	rivera		stem Administration: Adjust Drivers for your Purchase R	
ransfer Capital Tracking ojects to Rolling Forecast	Capital Integration: Transfer to Axiom Rolling Fore Transfer actual capital spent by quarter to Axiom R						

2. In the **Open Existing Capital Project** section, select the project from the drop-down field.

NOTE: You can also type in the field, and the system will automatically display project requests that include those words in the project name.

Oapital Tracking		×
CAPITAL REQUEST Create or Open Capital Project		
Open Existing Capital Project Capital Project (Begin Typing to Search)	Select V Open 2 - Master Facility Plan, New Cancer Center (Engineering / Facilities) Image: Concerter (Engineering / Facilities)	
Create a New Capital Request Project Type Project Type Detail	 3 - Bed, Bariatric Beds (Nursing) 4 - EMG (Spine Neuro), Cyber Knife (Surgery) 5 - General Construction, Dental Surgery Expansion (Engineering / Facilities) 6 - Mammography Unit, Digital Mammo Unit (Radiology) 7 - General Software, ICU Software (IT) 8 - Acquisition, SW MOB Acquisition (Miscellaneous) 	•
Department	Select Department	
Template	Select Template Create	

3. Click Open.

Entering data into capital project plan files

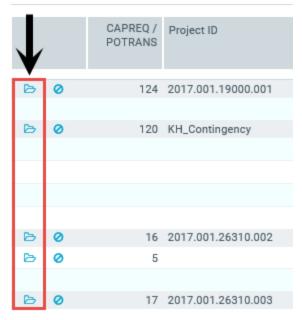
To enter data into capital project plan files:

1. From the Capital Tracking Summary or Capital Tracking Directory, click the Folder icon next to the project to update the plan files for.

Capital Tracking Summary

KHA Health | Capital Tracking

TOTAL



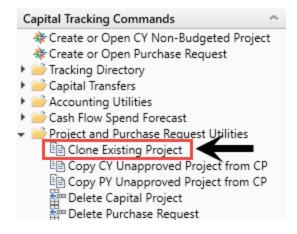
- 2. Complete the steps for one of the following capital project types:
 - Non-Threshold (Summary)
 - Threshold (Pro Forma)

Cloning an existing project

Instead of creating a new capital project from scratch, you can use this option to clone an existing plan file, and edit it to meet your needs.

To clone an existing project:

1. In the Cap Track Admin or Cap Track task pane, in the Capital Tracking Commands section, double-click Clone Existing Project.



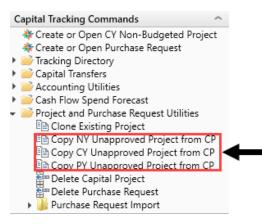
- 2. In the **Copy On Demand Plan Files** dialog, select the check box next to the projects to clone, and click **OK**.
- 3. At the confirmation prompt, click **OK**.
- 4. At the success confirmation prompt, click OK.

Copying an unapproved project

Use this option to copy unapproved projects from the next year, current year, or prior year from Axiom Capital Planning to Axiom Capital Tracking.

To copy an unapproved project:

1. In the Cap Track Admin task pane, in the Capital Tracking Commands section, click Project and Purchase Request Utilities, and double-click Copy CY Unapproved Project from CP.



- 2. In the **Copy On Demand Plan Files** dialog, select the check box next to the plan files to copy, and click **OK**.
- 3. At the confirmation prompt, click **OK**.
- 4. At the success confirmation prompt, click **OK**.

Copying or transferring capital projects

The Copy or Transfer Capital Projects utility allows you to easily copy projects and data from one file group to another in Axiom Capital Planning as well as copy unapproved or transfer approved capital project plan files and data to Axiom Capital Tracking.

Capital Planning				43	Ц		Ā	хіом		
≡ 🗭 ۶∕							☆	?		
Capital Project Copy/	Capital Project Copy/Transfer Utility									
🜒 Use this utility to copy or transfer plan files between Capital Planning and/or Capital Tracking File Groups.										
Select Source File Group:	Select 🔻									
Select Destination File Group:	Select 🔻									
	Next									

Copying projects from one Capital Planning file group to another

Use this utility to do the following in Axiom Capital Planning:

- Roll forward capital projects from one year to the next.
- If your organization upgrades from the Excel Legacy version of Axiom Capital Planning to the Web version, use this utility to move your Excel projects to the Web version.

To copy projects from one Capital Planning file group to another:

1. From the Axiom Capital Planning home page, click Copy or Transfer Capital Projects.

NOTE: If using the Windows or Excel Client, see Navigating to capital project requests.

Capital Planning		
≡ ⊁		☆ ?
Process Summary - Capital Planning		
2 Total O New O Due Soon	0 Overdue	
Capital Plan File Management: View Plan File Directory (CP2022) View Capital Projects that are for the Next Year File Group.		
Capital Plan File Management: Create or Open Next Year Capital Project Create or Open Capital Projects Capital Projects will open in a new window.	(CP2022)	
Capital Plan File Management: Copy or Transfer Capital Projects Copy or Transfer Capital Projects Copy capital Projects from cone File Group to another You can also use this utility to transfer Capital Projects from Capital Plan	vning File Groups to Capital Tracking.	
Capital Reports: Launch the Capital Planning Dashboard Launch the Capital Distributed In this Dashboard, you will see a summary and analysis of your Capital P		
Capital System Administration: Adjust Capital Planning Next Year Drive Edit Drivers Adjust the Capital Planning Drivers for your Next Year File Group.	s (CP2022)	

- 2. From the Select Source File Group drop-down, select the file group to copy from.
- 3. From the Select Destination File Group drop-down, select the file group to copy to.
- 4. From the Shift Data Years? drop-down, select one of the following:
 - To shift the destination start year, select **Yes shift data to match destination start year**. For example, if you want to copy data from 2019 to 2020, and start planning in 2020. By selecting Yes, your new plan files will keep all of the data from your source files, but it will start in 2020.
 - To continue using the start year in the current year plan file, select No maintain source year data. For example, if you want to copy data from 2019 to 2020, but continue using the 2019 start year and data.
- 5. From the Delete Prior Year Data? drop-down, select one of the following:

NOTE: This option only displays if you select No in Step 3 above.

• To delete all of the data from the previous year's plan file, select Yes - delete data prior to destination start year. For example, if you want to copy data from 2019 to 2020, and delete the 2019 data.

TIP: You may want to use this option to roll forward a multi-year plan file, but not include the source data prior to your destination start year.

 To keep all data prior to the destination file group you are copying data to, select No maintain all source data. For example, if you want to copy data from 2019 to 2020, and keep the 2019 data.

- 6. Click Next.
- 7. Select the projects to copy by clicking the check box in the far left column.

TIP: To copy all of the projects, click the check box left of the **CAPREQ** column header.

- 8. Click Submit.
- Copying Capital Planning projects to Capital Tracking

Use this option to copy unapproved Capital Planning projects to a Capital Tracking project.

To copy Capital Planning projects to Capital Tracking:

1. From the Axiom Capital Planning home page, click Copy or Transfer Capital Projects.

	NOTE: If using th	e Excel Client, see Navigating to capital project requests		
Can	ital Planning		III & A 🕠	AXIOM
=				☆ ?
	Process Summary - Capital Planning			
	2 Total	0 Due Soon 0 Overdue		
	Plan File Directory	Capital Plan File Management: View Plan File Directory (CP2022) View Capital Projects that are for the Next Vear File Broup.		
	Create or Open Capital Projects			
	Copy or Transfer Capital Projects	Capital Plan File Management: Copy or Transfer Capital Projects Copy Capital Projects from one File Group to another. You can also use this utility to transfer Capital Projects from Capital Planning File Groups to Capital Tracking.		
	Launch Capital Dashboard			
	Edit Drivers	Capital System Administration: Adjust Capital Flanning Next Year Drivers (CP2022) Adjust the Capital Flanning Drivers for your Next Year File Group.		

- 2. From the Select Source File Group drop-down, select the file group to copy.
- 3. From the Select Destination File Group drop-down, select Capital Tracking.
- 4. From the Select Action drop-down, select Copy Unapproved Plan File from CP.
- 5. Select the projects in which to copy the data by clicking the check box in the far left column, and click **Next**.

NOTE: The system only displays unapproved projects available for copy. For approved projects, you can transfer them. See the section **Transferring Capital Planning projects to Capital Tracking** below for instructions.

TIP: To copy the data for all of the projects, click the check box left of the **CAPREQ** column header.

Transferring Capital Planning projects to Capital Tracking

Use this option to transfer one or more approved Capital Planning projects to a Capital Tracking project.

NOTE: Only Threshold (Pro Forma) projects can be transferred to an existing Capital Tracking project.

If the Capital Planning project includes additional or renamed Financial Input sheets and the project is opened in Capital Tracking, then the tab names will display CP_source file group year_sheet name, as shown in the following example:

Project ID CP_Pending_167 CAPREQ 203 Source CAPREQ: 167 Project Type : Central Sterile Department: 8 (Test Dept) Status: Pending Attachments: 0 Sterilizer Process Indicator							
SETUP	PROJECT	FINANCIAL	SUMMARY	TRACKING			
CP2021_167_Fin	CP2021_167_Financial Inputs CP2021_167_Phase 2 Balance Sheet Financial Statements Discount Rate						
Capital Additions	Funding Sources	Volume Gross Charge	es Contractual Allowa	nces Other Operating	g Revenue Salaries & FTEs	Pro	

For more information on additional Financial Input sheets, see Adding or renaming additional Financial Input sheets.

Also, when transferring multiple Capital Project files to an existing Capital Tracking plan file, the **Source CAPREQ** area at the top of the plan file page displays "Multi" as shown in the following example:

Project ID CP_Pending_62 CAPREQ 204 Source CAPREQ: Multi | I roject Type : Central Sterile | Department: 5 (Fake Dept no 5) | Status: Pending | Attachments: 0 Sanitizer Unit, 2019 pian file test

To transfer Capital Planning projects to Capital Tracking:

1. From the Axiom Capital Planning home page, click Copy or Transfer Capital Projects.

NOTE: If using the Windows or Excel Client, see Navigating to capital project requests.

Capital Planning			III 🛷 🗘	
≡ ≯				û ?
Process Summary - Capital Planning				
2 Total	0 Due Soon	0 Overdue		
Plan File Directory	Capital Plan File Management: View Plan File Directory (CP2022) View Capital Projects that are for the Next Year File Group.			
Create or Open Capital Projects	Capital Plan File Management: Oreale or Open Next Year Capital Project (CP2022) Greate or open Capital Projects for the Next Year File Group. Capital Projects will open in a new window.			
Copy or Transfer Capital Projects	Capital Plan File Management: Copy or Transfer Capital Projects Copy Capital Projects from one File Group to another. You can also use this utility to transfer Capital Projects from Capital Planning File Groups to Capital Tracking.	←		
Launch Capital Dashboard	anning year.			
Edit Drivers	Capital System Administration: Adjust Capital Planning Next Year Drivers (CP2022) Adjust the Capital Planning Drivers for your Next Year File Group.			

- 2. From the Select Source File Group drop-down, select the file group to transfer.
- 3. From the Select Destination File Group drop-down, select Capital Tracking.
- 4. From the Select Action drop-down, select Transfer Approved Plan File from CP:
- 5. Complete the following steps:

То	Then
Transfer project data to an existing Capital Tracking project	 a. From the Transfer to Existing CT Project drop- down, select Yes - transfer to existing CT project.
	b. From the Add to Original Budget? drop-down, select one of the following:
	 Yes - add to existing CT project's original budget
	TIP: If the project is unbudgeted or if you will transfer funds from another project, select No.
	• No - keep CT project's original budget as is
	c. From the Select Years to Transfer drop-down, click the check box next to the years to transfer, and click OK.
	d. Click Next.

То	Then	
Create a new Capital Tracking project	a. From the Transfer to Existing CT Project drop- down, select No - create new CT project.	
	b. From the Set Original Budget = 0? drop-down, select one of the following:	
	 Yes - set Original Budget values = 0 	
	TIP: For example, you may want to set the original budget to zero for unbudgeted projects that you want to transfer to Axiom Capital Tracking.	
	• No - keep Original Budget values from CP	
	c. From the Select Years to Transfer drop-down, click the check box next to the years you DO NOT want to transfer, and click OK.	
	NOTE: By default, all of the available years are selected.	
	d. Click Next.	

6. Select the projects in which to copy the data by clicking the check box in the far-left column, and click **Next**.

NOTE: The system only displays approved plan files.

TIP: To copy or transfer the data for all of the projects, click the check box left of the **CAPREQ** column header.

7. If transferring the data to an existing Capital Tracking project, select the project to transfer the data to, and click **Submit**.

Transferring capital project data to Axiom Rolling Forecast

If your organization uses Axiom Capital Tracking and Axiom Rolling Forecast, you can transfer your capital spending data to your Axiom Rolling Forecast plan files.

IMPORTANT: We recommend that you DO NOT change department numbers in Axiom Capital Tracking after you transfer projects to Axiom Rolling Forecast and process the plan files. This may cause duplication of data in different plan files.

Selecting and transferring project spending data

NOTE: By default, any previously transferred projects will transfer again unless you select them not to. For instructions on, see Managing transferred projects.

To select and transfer project spending data:

1. From the Axiom Capital Tracking home page, click Transfer Capital Tracking Projects to Rolling Forecast.

NOTE: To access this location from the Cap Tracking Admin task pane, in the Integration section, double-click Transfer Capital Tracking to Rolling Forecast.

al Tracking							III 🕫 🗘 (
۶							
Process Summary - Capi	tal Tracking	Tracking			se Requests		
O Total	0		O Total	0 New		0 Due Soon	0 Overdue
Plan File Directory	Capital Plan File Management: View Pl (Capital Tracking) View Capital Tracking Projects.	an File Directory	Plan File (irectory	(Purchase	lan File Management: View Pl eRequests) chase Requests.	an File Directory
Create or Open Capital Projects	Capital Plan File Management: Create Capital Projects will open in a new winc		Create or Open Purchase Reques		Capital Plan File Management: Create or Open Purchase Request Purchase Requests will open in a new window.		
Copy or Transfer Capital Projects	Capital Plan File Management: Copy or Copy Capital Projects from one File Gr You can also use this utility to transfer Planning File Groups to Capital Trackin	oup to another. Capital Projects from Capital	Launch Capital	ransfer Utility		l an File Management: Launch lity, you will be able to transfer	the Capital Transfer Utility funds between capital projects.
Launch Capital Dashboard	Capital Reports: In this Dashboard, you will see a summ Tracking process.	ary and analysis of your Capital	Launch Capit Summary		In this rep	eports: Launch the Capital Tra bort, you will be able to view a associated Purchase Request	summary of all Capital Tracking
Edit Drivers	Capital System Administration: Adjust Adjust the Drivers for your Capital Trac Capital Planning installed, this will oper	king File Group. NOTE: if you have	Edit Dr	vers		ystem Administration: Adjust a Drivers for your Purchase Re	
Transfer Capital Tracking Projects to Rolling Forecast	Capital Integration: Transfer to Axiom I Transfer actual capital spent by quarter	-					

2. From the Select Capital Tracking Year(s) to Transfer drop-down, select the year in which to transfer projects to Axiom Rolling Forecast.

Transfer Capital Tracking Data to Axiom Rolling Forecast				
O Use this utility to transfer or retransfer capital request dollars spent to Axiom Rolling Forecas	d.			
Select Capital Tracking Year(s) to Transfer: Select				
Manage previously transferred projects IMPURIAN I: By default, projects previously transferred will automatically ti	ransrer again when you run this utility, overwriting the project s data in Axiom Holling Forecast. To control which projects transrer, click the following link:			

- 3. In the dialog, select one or more years of data to transfer, and click OK.
- 4. Click Next.
- 5. Next to the **CAPREQ** column, click the check box to select the project spending data to transfer, and click **Next**.

TIP: To filter the list, hover your cursor over a column heading, and click the funnel icon. To view the contents of the plan file, click the folder icon in the CAPREQ column.

- 6. To transfer the data, click **Submit**.
- 7. At the confirmation prompt, click **OK**.

A summary screen displays to confirm that the data from the specified files has been transferred.

Managing transferred projects

By default, project spending data that was previously transferred will automatically transfer again when you run the utility. However, you can control this action by enabling or disabling these projects from transferring .

To manage transferred projects:

1. In the Cap Plan Admin task pane, in the Integration section, double-click Transfer Capital Tracking to Rolling Forecast.

Integration	^	
Transfer Capital Tracking to Rolling Forecast		

2. Click Manage previously transferred projects.

Transfer Capital Tracking Data to Axiom Rolling Forecast					
Use this utility to transfer or retransfer capital request dollars agent to Autom Rolling Forecast.					
Select Capital Tracking Year(s) to Transfer: Select.					
> Manage previously transferred projects					

- 3. Do any of the following:
 - a. To transfer all projects in the list, click Yes. To disable the transfer of all projects, click No.
 - b. To search for a specific project, type project information in the Search box such as the CAPREQ number, the project ID, or description.

- c. To view the plan file for a project, click the folder icon next to the CAPREQ number. The plan file opens in a separate tab. From here, you can make any necessary changes to the project. However, to propagate the changes in the Transfer Capital Tracking to Rolling Forecast utility, you will need to close it and open it again.
- d. For individual projects, click the toggle to **Yes** to transfer the project. Click the toggle to **No** to disable the transfer.

ise this utility to transfer or re	ansfer capital request dollars spent to Axiom Rolling Forecast.							
Select Capital Tracking	ear(s) to Transfer: Select 👻							
✓ Manage previously t	ansferred projects							
ransfer all previously	b							
Yes No	Search × C	lear	Actual					
Transfer? CAPP	Q Project ID Description	Total Requested	Total	Entity	Department T., Project Type	Start Year Creator	Status	Status Comments
Yes 🖻 🗄	CT_Pending3333. Discretionary	S-	S-	2	99 Discretionary	2020 Eklein	Pending	
Yes 🖻 🖻	CP_Pending_483 Ultrasonic Cleaning System,test	S-	S-	2	99 Central Sterile	2020 Eklein	Pending	
	CP_Pending_14 Occluder,test 34394 tax	\$6,099	S-	2	99 ENT	2020 KWilliams	Pending	
Yes 🕞 🤅	CP.Pending_14 Occluder.test 34394 tax	\$6,369	S-	2	99 ENT	2020 KWilliams	Pending	
Yes Do 1						2022 KWilliams	Pending	
	0 CT_Pending_5 Sterilizer Process Indicator,Threshold All CM's inserted and	additional S-	S-	1	19050 Central Sterile	2022 Kwilliams	Penang	

4. Click **Next** to continue the transfer process as described in step 4 in the "Selecting and transferring projects" section above.

NOTE: The projects you disable from transferring will not display in the list.

Submitting or rejecting capital projects

If you are an approver and a capital project is at your step in the process, a Submit button displays in upper right corner of the screen to send the project to the next step in the process. If you have rejection rights, a Reject button also displays so you can send the project back to the previous step in the process.

To submit or reject a capital project:

- 1. Open the capital project, and do one of the following:
 - To approve the project to send it to the next step in the process, in the upper right corner of the screen, click **Submit**.

Capital Planning		III 🛷 🕰 co Kjulmanskal
≡ % ø ⊁		☆ 🔒 ?
CAPREQ 70 Project Type : Cardiology: Department: 99 (Test Dept) Status Angioplasty System	Perding Janushmens 0	@ Submit Attachments Save
SETUP PROJECT FINANCIAL	SUMMARY	(*) Indicates a required field
Description Details Picklists Capital Questions	Business Plan	+ ?
Short Description Long Description Project Justification	Up to 50 Characters Up to 500 Characters Up to 500 Characters	
Status	Pending *	

After you click Submit, a dialog displays the next step in the process. You can add notes for the next reviewer. Click **Submit**.

• To reject the project to send it back to the previous step, click Reject .

	et Type : Cardiology Departm sty System	nent: 99 (Test Dept) Status: F	ending Attachments: 0	Reject @ Submit Attachments	Save
	PROJECT	FINANCIAL	SUMMARY	(*) Indie	ates a required fiel
Description	Details Picklists	Capital Questions	Business Plan		+

Transferring funds between capital projects

NOTE: To view the project plan file, click the folder icon to the left of the CAPREQ column.

To run the Capital Transfer utility:

1. From the Axiom Capital Tracking home page, click Launch Capital Transfer Utility.

NOTE: To access this location from the Cap Tracking Admin task pane, in the Capital Tracking Commands section, click Capital Transfers, and double-click Capital Transfer Utility.

- 2. To refresh the data, do one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.
 - Press F9.
- 3. In the **Refresh Variables** dialog, do the following:
 - a. In the Transfer FROM Project field, click Choose Value.

NOTE: The list only displays approved projects.

- b. In the Choose Value dialog, select the project to transfer funds from, and click OK.
- c. In the Transfer TO Project field, click Choose Value.

NOTE: You can transfer money to an approved or pending project.

- d. In the Refresh Variables dialog, click OK.
- 4. In the Transfer Amount column, enter the amount to transfer from the project.

Cap KHA He Capital T	ealth	ansfer								
	CAPREQ	Project ID	Entity	Department	Project Description	Transfer Amount	Transfer Month	Transfer Year	Comments	Status
Transfer	FROM Proje	ct:								
	2	2017.002.26480.001	2	26480	Master Facility Plan, New Cancer Center		1	2017		Approved
Transfer '	TO Project:									
67 🔴	3	2017.002.26140.001	2	26140	Bed, Bariatric Beds	0	1	2017		Approved

The amount you enter will automatically display in the same column in the Transfer To projects.

- 5. In the Transfer Month column, select the month to transfer the amount from.
- 6. In the Transfer Year column, select the year to transfer the amount from.
- 7. In the **Comments** column, type any comments to include related to the transfer.
- 8. After you are done making changes, in the Main ribbon tab, click Save.
- 9. At the confirmation prompt, click **OK**.

Transferring capital project data to Axiom Rolling Forecast

If your organization uses Axiom Capital Tracking and Axiom Rolling Forecast, you can transfer your capital spending data to your Axiom Rolling Forecast plan files.

IMPORTANT: We recommend that you DO NOT change department numbers in Axiom Capital Tracking after you transfer projects to Axiom Rolling Forecast and process the plan files. This may cause duplication of data in different plan files.

Selecting and transferring project spending data

NOTE: By default, any previously transferred projects will transfer again unless you select them not to. For instructions on, see Managing transferred projects.

To select and transfer project spending data:

1. From the Axiom Capital Tracking home page, click Transfer Capital Tracking Projects to Rolling Forecast.

NOTE: To access this location from the Cap Tracking Admin task pane, in the Integration section, double-click Transfer Capital Tracking to Rolling Forecast.

racking				I 🗘 🔍	
Process Summary - Capital	Tracking	Process Summary - Purchas	se Requests		
O New	0 Due Soon 0 Overdue	O New Total	0 Due Soon 0 Overdue	0 Overdue	
Plan File Directory	Capital Plan File Management: View Plan File Directory (CapitalTracking) View Capital Tracking Projects.	Plan File Directory	Capital Plan File Management: View Plan File Directory (PurchaseRequests) View Purchase Requests.		
Create or Open Capital Projects	Capital Plan File Management: Create or Open Capital Tracking Projec Capital Projects will open in a new window.	Create or Open Purchase Requests	Capital Plan File Management: Create or Open Purchase Request Purchase Requests will open in a new window.		
Copy or Transfer Capital Projecta	Capital Plan File Management: Copy or Transfer Capital Projects Copy Capital Projects from one File Group to another. You can also use this utility to transfer Capital Projects from Capital Planning File Groups to Capital Tracking.	Launch Capital Transfer Utility	Capital Plan File Management: Launch the Capital Transfer In this utility, you will be able to transfer funds between cap		
Launch Capital Dashboard	Capital Reports: In this Dashboard, you will see a summary and analysis of your Capital Tracking process.	Capital Reports: Launch the Capital Tracking Summary Report Capital Summary Report In this report, you will be able to view a summary of all Capital Tr and their associated Purchase Requests.			
Edit Drivers	Capital System Administration: Adjust the Capital Tracking Drivers Adjust the Drivers for your Capital Tracking File Group. NOTE: if you ha Capital Planning Installed, this will open the CP Next Year Drivers.	Edit Drivers	Capital System Administration: Adjust Purchase Request D Adjust the Drivers for your Purchase Request File Group.	hivers	
Transfer Capital Tracking Projects to Rolling Forecast	Capital Integration: Transfer to Axiom Rolling Forecast Transfer actual capital spent by quarter to Axiom Rolling Forecast.				

2. From the **Select Capital Tracking Year(s) to Transfer** drop-down, select the year in which to transfer projects to Axiom Rolling Forecast.

Transfer Capital Tracking Data to Axiom Rolling Forecast
O Use this utility to transfer or retransfer capital request dollars apent to Axiom Rolling Forecast.
Select Capital Tracking Year(s) to Transfer: Select
> Manage previously transferred projects

- 3. In the dialog, select one or more years of data to transfer, and click OK.
- 4. Click Next.
- 5. Next to the **CAPREQ** column, click the check box to select the project spending data to transfer, and click **Next**.

TIP: To filter the list, hover your cursor over a column heading, and click the funnel icon. To view the contents of the plan file, click the folder icon in the CAPREQ column.

- 6. To transfer the data, click **Submit**.
- 7. At the confirmation prompt, click **OK**.

A summary screen displays to confirm that the data from the specified files has been transferred.

Managing transferred projects

By default, project spending data that was previously transferred will automatically transfer again when you run the utility. However, you can control this action by enabling or disabling these projects from transferring .

To manage transferred projects:

1. In the Cap Plan Admin task pane, in the Integration section, double-click Transfer Capital Tracking to Rolling Forecast.

Integration	^
Transfer Capital Tracking to Rolling Forecast	

2. Click Manage previously transferred projects.

Transfer Capital Tracking Data to Axiom Rolling Forecast
0 Use this utility to transfer or retransfer capital request dollars spent to Axiom Rolling Forecast.
Select Capital Tracking Year(s) to Transfer: Select
> Manage previously transferred projects

- 3. Do any of the following:
 - a. To transfer all projects in the list, click Yes. To disable the transfer of all projects, click No.
 - b. To search for a specific project, type project information in the Search box such as the CAPREQ number, the project ID, or description.
 - c. To view the plan file for a project, click the folder icon next to the CAPREQ number. The plan file opens in a separate tab. From here, you can make any necessary changes to the project. However, to propagate the changes in the Transfer Capital Tracking to Rolling Forecast utility, you will need to close it and open it again.
 - d. For individual projects, click the toggle to **Yes** to transfer the project. Click the toggle to **No** to disable the transfer.

Ise this utility to transfer or retra	insfer capital request dollars spent to Aniom Rolling Forecast.								
Select Capital Tracking Y	ear(s) to Transfer: Select	Ŧ							
✓ Manage previously tra	insferred projects								
ansfer all previously ansferred projects?	Ь								
Yes No	Search: Search	× Clear		Actual					
Transfer? CAPRE	Q Project ID Description		Total Requested	Total	Entity	Department T Project Type	Start Year Creator	Status	Status Comments
Yes 🕒 3	CT_Pending3333. Discretionary		S-	S-	2	99 Discretionary	2020 Eklein	Pending	
Yes 🕒 3 Yes 🖻 16		n,test	s- s-	S- S-	2	99 Discretionary 99 Central Sterile	2020 Eklein 2020 Eklein	Pending Pending	
	CP_Pending_483 Ultrasonic Cleaning System	n,test			-			-	
Yes 🕒 16	CP_Pending_483 Ultrasonic Cleaning Syster CP_Pending_14 Occluder,test 34394 tax	ntest	S-	S-	2	99 Central Sterile	2020 Eklein	Pending	
Yes 🕒 16 Yes 🗁 60	CP_Pending_483 Ultrasonic Cleaning Syster CP_Pending_14 Occluder,test 34394 tax CP_Pending_14 Occluder,test 34394 tax	rytest cThreshold All CM's inserted and additional	S- \$6,099	S- S-	2	99 Central Sterile 99 ENT	2020 Eklein 2020 KWilliams	Pending	

4. Click **Next** to continue the transfer process as described in step 4 in the "Selecting and transferring projects" section above.

NOTE: The projects you disable from transferring will not display in the list.

Working with accounting utilities

There are three types of accounting utilities in Axiom Capital Tracking:

- Manual Invoice Entry Manually enter invoice transactions for capital projects.
- Manual Journal Entries Manually enter journal entry transactions for capital projects.
- **Original Budget Input** Update the original budget.

Updating invoice transactions

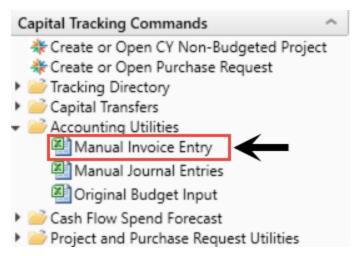
Use the Manual Invoice Entry utility to manually enter invoice transactions for capital projects.

Man KHA He Capital Tr	alth	nvoic	e Entry							
	CAPREQ	Entity	Department	Project ID	Project Description	Account	PO	Invoice	Invoice Date (mm/dd/yyyy)	Invoice Desci
6	3	2	26140	2017.002.26140.001	Bed, Bariatric Beds	Double Click to Select			10/20/2017	
		Double C	Click to Insert New Invo	pice(s)						
Total										
Make upo	dates to exi	ting Invoid	ces:							

NOTE: To view the project details for a capital project, double-click the folder icon next to the CAPREQ column.

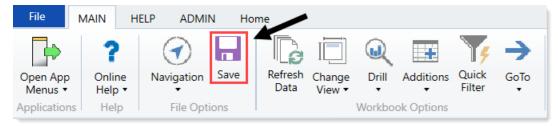
To update invoice transactions:

1. In the Cap Track Admin or Cap Track task pane, in the Capital Tracking Commands section, click Accounting Utilities, and double-click Manual Invoice Entry.



- 2. In the Refresh Variables dialog, click Choose Value.
- 3. In the Choose Value dialog, select the project, and click OK.
- 4. In the Refresh Variables dialog, click OK.

- 5. To add a new invoice, do the following:
 - a. Double-click Double Click to Insert New Invoice.
 - b. In the Insert dialog, type the number of invoice transactions to add, and click OK.
 - c. In the Account column, double-click Double Click to Select.
 - d. In the Choose Value dialog, select the account, and click OK.
- 6. For new or existing invoices, complete the following columns:
 - PO
 - Invoice
 - Invoice Date (for new invoices only)
 - Invoice Description
 - Invoice Amount
- 7. In the Vendor column, do the following:
 - a. To add or edit the vendor name, double-click the column.
 - b. In the Choose Value dialog, select the vendor, and click OK.
 - a. In the
- 8. After making your changes, in the Main ribbon tab, click Save.



Updating journal entry transactions

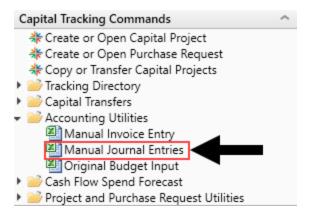
Use the Manual Journal Entries utility to manually enter journal entry transactions for capital projects.

Manual Journal Entry KHA Health Capital Tracking	Add JE to Committed Yes						
CAPREQ Entity Department	Project ID	Project Description	Account	Post Date (mm/dd/yyyy)	Journal Entry Description	Journal Entry Amount	Committed
		NA	Double Click to Select	07/25/2019		0.00	0.00
Select <refresh data=""> to enter a Project ID</refresh>							
otal						0.00	0.00
Offset entry:							
© 0 0 0		NA	Double Click to Select	07/25/2019		0.00	0.00
Make updates to existing Journal Entries:							

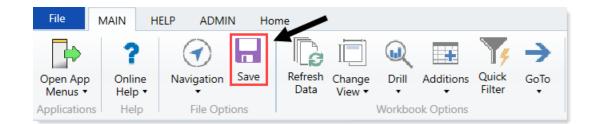
NOTE: To view the project details for a capital project, double-click the folder icon next to the CAPREQ column.

To update journal entry transactions:

1. In the Cap Track Admin or Cap Track task pane, in the Capital Tracking Commands section, click Accounting Utilities, and double-click Manual Journal Entries.



- 2. In the **Refresh Variables** dialog, do the following:
 - a. In the Project field, click Choose Value.
 - b. In the Choose Value dialog, select the project, and click OK.
 - c. From the Journal Entry Type drop-down, select the entry type.
 - d. Click OK.
- 3. To add a new journal entry, do the following:
 - a. Double-click Double Click to Insert New JE(s).
 - b. In the Insert dialog, type the number of journal entries to add, and click OK.
- 4. In the Account column, do the following:
 - a. Double-click Double Click to Select.
 - b. In the Choose Value dialog, select the account, and click OK.
- 5. Complete the following columns:
 - Post Date
 - Journal Entry Description
 - Journal Entry Amount
- 6. In the Add JE to Committed cell, select Yes to commit the journal entry amount upon save; otherwise, select No.
- 7. After you are done making changes, in the Main ribbon tab, click Save.



Updating the original project budget

Use the Original Budget Input utility to update the original budget for the project.

						ut	Budget Inp	alth	Orig HA He
					gBudgetTOT>=5000)	TReq.Orig	l filter criteria here (ex. 0	additional	ilter: NO Input ort: (asc
018 Original 2 Budget	2017 Original 2018 Origin. Budget Budget	2016 Original Budget	2015 Original Budget	Project Description	Department	Entity	Project ID	CAPREQ	
0		0							~ 0
32000	0 32	0	0	Land Purchase, For New MOB Bed, Pediatric Cribs	19000 26310		2017.001.19000.001 2017.001.26310.002		
4000		0	0		26310		2017.001.26310.002		
120000		0	0	Ice Machine, Replacement for Dietary Incubator, Transport Incubator/ Isolette	26310		2017.001.26310.005		
15800		0	0	Monitor, Telemetry Transmitters	26350		2017.001.26350.001		
79695		0	0	Bed, CCU Beds	26350		2017.001.26350.001		
7500		0	0	Oximeter. Portable Pulse Oximeters	26350		2017.001.26350.005		
8000		0	0	Phototherapy Unit, Bili Soft Photo Therapy	26350		2017.001.26350.003		
26000		0	0	Incubator. Radiant Warmers	26430		2017.001.26430.007		
15000		0	0	Fetal Heart Detector, 12 Lead EKG Machine, MAC 5500	26470		2017.001.26470.002		
18000		0	0	Other General Medical. Bladder Scanner BVI 9400	26470		2017.001.26470.001		
		-							
35400		0	0	Other General Medical, Blanket Warmer	26470		2017.001.26470.002		

NOTE: To view the project details for a capital project, double-click the folder icon next to the CAPREQ column.

To update the original project budget:

1. In the Cap Track Admin or Cap Track task pane, in the Capital Tracking Commands section, click Accounting Utilities, and double-click Original Budget Input.

C	Capital Tracking Commands	^
	Create or Open CY Non-Budgeted Project	t
	🔆 Create or Open Purchase Request	
۲	Tracking Directory	
۲	Capital Transfers	
Ŧ	Accounting Utilities	
	🖄 Manual Invoice Entry	
	Manual Journal Entries	
	🖾 Original Budget Input	
۲	Cash Flow Spend Forecast	

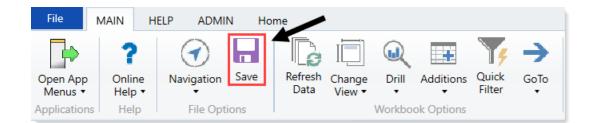
- Project and Purchase Request Utilities
- 2. Refresh the data in the report by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.

File	MAIN	HELP ADMIN Ho	ome			
Open App Menus •	? Online Help	Navigation Save	Refresh Change View •	Drill Addition	s Quick Filter	
Application	s Help	File Options		Workbook Option	s	

- Press F9.
- 3. Do one of the following:

Option	Description
Select one or more projects to include in the utility	 a. In the Refresh Variables dialog, for each option to filter by, click Choose Value.
	b. In the Choose Value dialog, select the values to include, and click OK .
	c. In the Refresh Dialog, click OK.
Include all projects in the utility	In the Refresh Variables dialog, leave the field blank, and click OK .

- 4. Type the updated budget amounts in the appropriate year column.
- 5. After you are done making any applicable changes, in the Main ribbon tab, click Save.



Working with cash flow utilities

There are two types of cash flow utilities in Axiom Capital Tracking:

- Monthly Cash Flow Spend Forecast Enter projected cash spending by month for capital projects.
- Quarterly Cash Flow Spend Forecast Enter projected cash spending by quarter for capital projects.

Updating projected cash spending by month

The Monthly Cash Flow Spend Forecast utility allows you to enter projected cash spending by month for capital projects.

KHA He Capital T Filter: NC	ealth racking DNE additional filter cr	end Fore			▼ << <select current="" month<br=""><<<second display<="" th="" year=""><th></th><th></th><th></th><th></th><th></th><th></th></second></select>						
	CAPREQ	Project ID I	Entity	Department	Project Description	2019 Forecast Total	2019 Budget	2019 Budget vs. Forecast Variance	2020 Q1 Forecast	2020 Q2 Forecast	2020 Q3 Forecast
	2 2017.0	2.26480.001 20	017.002	2	Master Facility Plan, New Cancer Center	0	4,425,000	4,425,000	2,550,000	0	0
			017.002		Bed, Bariatric Beds	0	4,425,500	4,425,000	0		0
			017.002		EMG (Spine Neuro), Cyber Knife	0	4,100,000	4,100,000	0	0	0
00			017.010		General Construction, Dental Surgery Expansion	0	0	0	0		0
00	6 2017.0	2.26750.001 20	017.002		Mammography Unit, Digital Mammo Unit	0	0	0	0		0
00	7 2017.0	1.19150.001 20	017.001		General Software. ICU Software	0	400.000	400.000	400.000	0	0
P O	8 2017.0	2.21010.001 20	017.002	2	Acquisition, SW MOB Acquisition	0	0	0	0	0	0

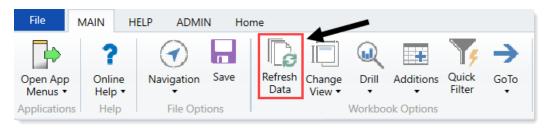
NOTE: To view the project details for a capital project, double-click the folder icon next to the CAPREQ column.

To update projected cash spending by month:

1. In the Cap Track Admin or Cap Track task pane, in the Capital Tracking Commands section, click Cash Flow Spend Forecast, and double-click Monthly Cash Flow Spend Forecast.

Capital Tracking Commands
Create or Open CY Non-Budgeted Project
🍀 Create or Open Purchase Request
Tracking Directory
Capital Transfers
Accounting Utilities
 Cash Flow Spend Forecast
Monthly Cash Flow Spend Forecast
🖾 Quarterly Cash Flow Spend Forecast
🕨 🧀 Project and Purchase Request Utilities

- 2. Refresh the data in the utility by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



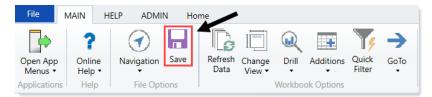
- Press F9.
- 3. Do one of the following:

Option	Description
Select one or more projects to include in the utility	 a. In the Refresh Variables dialog, for each option to filter by, click Choose Value. b. In the Choose Value dialog, select the values to include, and click OK. c. In the Refresh Dialog, click OK.
Include all projects in the utility	In the Refresh Variables dialog, leave the field blank, and click OK.

- 4. At the top of the page, do the following, as needed:
 - a. From the **Select Current Month** drop-down, select the beginning month you wish to forecast from.
 - b. From the Second Year Display drop-down, select either monthly or quarterly from the dropdown.

Monthly Spend Forecast KHA Health Capital Tracking 4 Filter: NONE Input additional filter criteria here (ex. CTREQ.OrigBudgetTOT>=5000) Sort: (asc)

- 5. For each project, complete the following columns to project cash flow by month for each year:
 - Comments
 - 20XX M1 Forecast 20XX M12 Forecast
- 6. After you are done making your changes, in the Main ribbon tab, click Save.



Updating projected cash spending by quarter

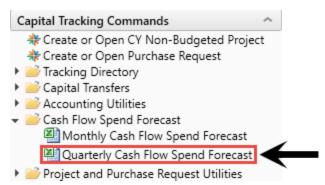
The Quarterly Cash Flow Spend Forecast utility allows you to enter projected cash spending by quarter for capital projects.

Qua KHA Hea Capital Tra	alth	/ Spend Fo	recas	t Q1	▼ << <select current="" quarter<="" th=""><th></th><th></th><th></th><th></th></select>				
Filter: CTR	EQ.Templa	ate = 'Template_04'							
		CTREQ.Template = '1	emplate_04	4'					
Sort: (asc))								
	CAPREQ	Project ID	Entity	Department	Project Description	Comments	Prior Spending	2018 Q1 Forecast	2018 Q2 Forecast
P 0	124	2017.001.19000.001	1	19000	Land Purchase, For New MOB		0	0	0
P O	7	2017.001.19150.001	1	19150	General Software. ICU Software		0	0	0
0 0	8	2017.002.21010.001	2	21010	Acquisition, SW MOB Acquisition		0	1,000,000	0
D O	9	2017.002.26440.001	2	26440	General Construction, Third Floor NICU		0	0	0
67 🔴	2	2017.002.26480.001	2	26480	Master Facility Plan, New Cancer Center	Will not spend all funds in 2017 - carryover into 2018	2,041,780	0	500,000
00	6	2017.002.26750.001	2	26750	Mammography Unit, Digital Mammo Unit		0	540,000	200,000
0 0	12	2017.002.27400.001	2	27400	General Construction, New Cardiac Center		0	500,000	2,500,000
00	11	2017.002.27540.001	2	27540	General Construction, Sleep Lab Expansion		0	0	500,000
\square 0	4	2017.002.27550.001	2	27550	EMG (Spine Neuro), Cyber Knife		0	0	0
0 13	10	2017.002.27640.001	2	27640	General Renovation, OR Remodel		0	0	500,000
\square 0	5	2017.010.102002.001	10	102002	General Construction, Dental Surgery Expansion		0	736,000	0
0 1	120	KH_Contingency	1	19000	Contingency, Main Campus Contingency Pool		0	0	0
Total							2,041,780	2,776,000	4,200,000

NOTE: To view the project details for a capital project, double-click the folder icon next to the CAPREQ column.

To enter projected cash spending by quarter:

1. In the Cap Track Admin or Cap Track task pane, in the Capital Tracking Commands section, click Cash Flow Spend Forecast, and double-click Quarterly Cash Flow Spend Forecast.



- 2. Refresh the data in the utility by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.
 - Press F9.
- 3. Do one of the following:

Option	Description
Select one or more projects to include in the utility	 a. In the Refresh Variables dialog, for each option to filter by, click Choose Value.
	b. In the Choose Value dialog, select the values to include, and click OK .
	c. In the Refresh Dialog, click OK.
Include all projects in the utility	In the Refresh Variables dialog, leave the field blank, and click OK .

- 4. At the top of the page, from the Select Current Quarter drop-down, select which quarter you want to forecast.
- 5. For each project, complete the following columns to project cash flow by quarter for each year:
 - Comments
 - 20XX Q1 Forecast 20XX Q4 Forecast
- 6. After you are done making your changes, in the Main ribbon tab, click Save.

File	MAIN H	ELP ADMIN	N Hor	me					
Open App Menus •	? Online Help ▼	() Navigation	Save	Refresh Data	Change View •	Drill	Additions	Quick Filter	
Applications	Help	File Opti	ons			Workboo	ok Options		

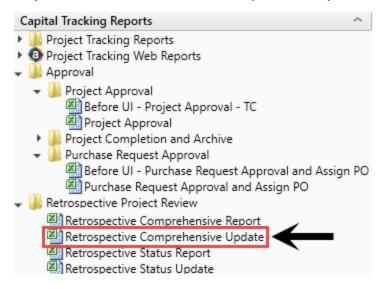
Entering a Retrospective Comprehensive Update for capital projects

Use this report to enter a Retrospective Comprehensive Update for individual capital projects.

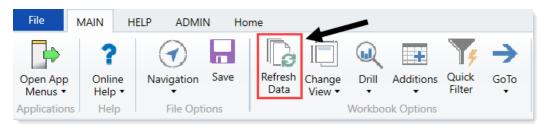
Master Facility	Plan, New Cance	r Center		
Creator: System Administrator		VP: Sally Klein		
ProjectID: 2017.002.26480.001		Approved Project Cost: \$11,125,0	00	Total Project Spend: \$2,041,780
Project Approval Date:	12/01/2012	Project Completion / Forecasted	Completion Date:	11/01/2013
Under Budget/Over Budget:	18.4%	Department: EMC O/P Oncology	(26480)	
Scope Change:		No		
Volume:		Unfavorable		
Financial Return compared to F	Plan:	Track to Plan	-	
Net Present Value	Return Efficiency	1st Year of Positive Cash Flow	Internal Rate of Return (IRR)	Payback
\$0	0.00%	-	0.00%	NA
Project Details				
Long Description	New Cancer Center that will be on	the east side of the city.		
Project Justification		er services over the last 3 years, and w opportunity to increase market share.	e need a new facility to remain	
	competitive while jumping on the c	opportunity to increase market share.		
Class	Master Facility Plan	Reason	Strategic Plan	
Category	Construction	Priority	Create/Maintain Marketability	
	construction		create/maintain marketability	

To enter a Retrospective Comprehensive Update for capital projects:

1. In the Cap Track Admin task pane, in the Capital Tracking Reports section, click Retrospective Project Review, and double-click Retrospective Comprehensive Update.



- 2. Refresh data by doing one of the following:
 - On the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 3. Do the following:
 - a. In the Refresh Variables dialog, in the Project field, click Choose Value.
 - b. In the Choose Value dialog, select the project, and click OK.
 - c. In the Refresh Variables dialog, click OK.
- 4. In the **Project Summary** tab, complete the following fields, as applicable:

Option	Description
Project Approval Date	Displays the date the project was approved.
Project Completion/Forecasted Completion Date	Displays the date the project was completed.
Under Budget/Over Budget	Displays the percentage the project was under or over budget compared to plan.
Scope Change	Select Yes or No if there was a project scope change.
Volume	Select one of the following: Favorable Unfavorable Mixed NA
Financial Return compared to Plan	Select one of the following: Track to Plan Mixed Not on Plan

5. In the Narrative tab, complete the questions, if applicable.

(Current length: 258 of 2,500 characters)	
Cancer Center construction was completed in August of 2013 and doors opened for business in November of the same year. New cancer cente city where multiple new housing developments have been completed in the past 5 years.	er is located on the east side of the
Were there any scope changes? If yes, please explain. (Current length: 34 of 2.500 characters)	
No scope changes for this project.	
Describe in detail WHY and WHAT is causing any volume (favorable/unfavorable) variances.	
(Current length: 361 of 2,500 characters)	
Favorable oputatient volume variance and unfavorable inpatient volume variance vs. performance tracking measures. Rapid population growth developments has been the largest factor driving these variances. However, even though inpatient volumes are lower than originally anticipate.	

6. In the **PerformanceMeasures** tab, do the following:

			2014	2015	2016	2017	2018	2019	Total
Performance Tracking Measures			ProjectID: 201	7.002.26480.00	1				
Select First Year of Comprehensive Report:	2014								
Performance Tracking Measure #1:									
Inpatient Discharges		Number							
Planned:			575	612	655	701	754	810	4,108
Actual / Projected:			508	556	603	656	704	777	3,804
Variance.: Increase / (Decrease)			(67)	(56)	(52)	(45)	(50)	(33)	(304)
Performance Rating:			Unfavorable	Explain variances ar	nd action plans to	bring project back	to plan, if necess	ary:	
Performance Tracking Measure #2:		Input Format							
Outpatient Visits		Number							
Planned:			5,130	5,387	5,656	5,995	6,355	6,800	35,322
Actual / Projected:			5,188	5,444	5,777	6,235	6,565	6,998	36,207
Variance.: Increase / (Decrease)			58	58	121	240	210	198	885
Performance Rating:			Favorable	Explain variances ar	nd action plans to	bring project back	to plan, if necess	ary:	

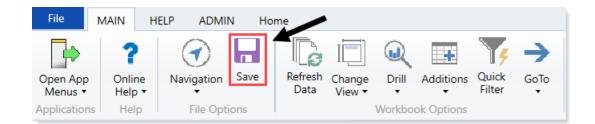
- Update the name cell under Performance Tracking Measure.
- In the Input Format cell, select the format to use.
- In the Planned, Actual/Projected, and Variance rows, enter data in the blue cells.

The **Performance Rating** cell automatically displays a rating based on the data entered in the rows.

7. In the **CashFlow** tab, do the following:

		2013	2014	2015	2016	2017	2018	2019	2020
Approved Plan		ProjectID: 201	7.002.26480.0	01					
Select First Year of Capital Spend:	2013]							
Complete this section with Approved Plan "Increm APPROVED PLAN:	ental" Financial Information								
Capital Expenditures		0	0	0	0	0	3,150,000	4,425,000	2,550,000
Revenue		0	4,511,716	4,850,330	5,229,473	5,659,734	6,143,056	6,692,416	7,291,110
Expenses		718,125	4,054,894	4,407,318	4,914,851	5,320,075	5,598,746	5,846,437	6,086,021
Income from Operations		(718,125)	456,822	443,012	314,623	339,659	544,310	845,979	1,205,090
Plus: Depreciation and Amortization		30,625	66,250	245,417	565,083	764,583	818,583	818,583	791,083
Plus: Interest Expense		0	0	0	0	0	0	0	0
Plus: Oper Lease (Only If PV in Capital)		0	0	0	0	0	0	0	0
Planned Operating Cash Flow		(687,500)	523,072	688,429	879,706	1,104,243	1,362,894	1,664,562	1,996,173
Operating Cash Flow Margin Planned		0.0%	11.6%	14.2%	16.8%	19.5%	22.2%	24.9%	27.4%
Cash Flow Planned		(687,500)	523,072	688,429	879,706	1,104,243	(1,787,106)	(2,760,438)	(553,827)
Philanthropy Planned (enter as negative)		0	0	0	0	0	0	0	0
Cash Flow Planned Net of Philanthropy		(687,500)	523,072	688,429	879,706	1,104,243	(1,787,106)	(2,760,438)	(553,827)

- In the Select First Year of Capital Spend cell, select the first year of capital spending.
- For each row, enter the appropriate data in the blue cells.
- 8. After you finish making changes, in the Main ribbon tab, click Save.



9. At the confirmation prompt, click **OK**.

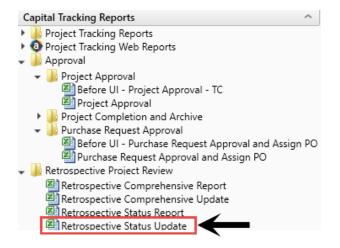
Entering Retrospective Status Updates for capital projects

Use this report to enter a Retrospective Status Update for individual capital projects.

Master Facility	Plan, New Cancer	r Center								
Creator: System Administrator		VP: Sally Klein								
ProjectID: 2017.002.26480.001		Department: EMC O/P Oncology (26480)								
Forecasted Spend Under Budge	t / Over Budget: 100.0%	Approved Project Cost: \$11,125,00	00	Forecasted Project Spend: \$11,125,000						
Project Approval Date:	12/01/2012	Project Completion / Forecasted C	Project Completion / Forecasted Completion Date:							
Net Present Value	Return Efficiency	1st Year of Positive Cash Flow	Internal Rate of Return (IRR)	Payback						
\$0	0.00%	-	0.00%	NA						
Project Details										
Long Description	New Cancer Center that will be on the	he east side of the city.								
Project Justification	St. Mary's has expanded their cancer services over the last 3 years, and we need a new facility to remain competitive while jumping on the opportunity to increase market share.									
Class	Master Facility Plan	Reason	Strategic Plan							
Category	Construction	Priority	Create/Maintain Marketability							

To enter a Retrospective Status Update for capital projects:

1. In the Cap Track Admin task pane, in the Capital Tracking Reports section, click Retrospective Project Review, and double-click Retrospective Status Update.



- 2. Refresh data by doing one of the following:
 - On the Main ribbon tab, in the Workbook Options group, click Refresh Data.

File	MAIN H	ELP ADMII	N Ho	me					
Open App Menus •	? Online Help ▼	Navigation	Save	Refresh Data	Change View •	Drill	Additions	Quick Filter	GoTo
Application	s Help	File Opti	ions		-	Workbo	ok Options		

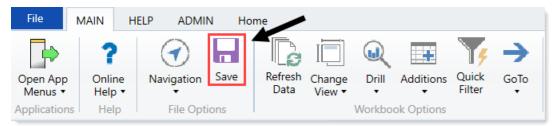
- Press F9.
- 3. Do the following:
 - a. In the Refresh Variables dialog, in the Project field, click Choose Value.
 - b. In the Choose Value dialog, select the project, and click OK.
 - c. In the Refresh Variables dialog, click OK.
- 4. In the **Project Summary** tab, complete the following fields, as applicable:

Option	Description
Project Approval Date	Displays the date the project was approved.
Project Completion/Forecasted Completion Date	Displays the date the project was completed.
Long Description	Displays the long description used for the project.
Project Justification	Displays the justification given to the project.

5. In the Narrative tab, complete the questions, if applicable.

Retrospective Status Update								
Explain project highlights.								
(Current length: 0 of 2,500 characters)								
Were there any scope changes? If yes, please explain.								
(Current length: 0 of 2,500 characters)								
Describe in detail WHY and WHAT is causing any volume (favorable/unfavorable) variances.								
(Current length: 0 of 2,500 characters)								

6. After you finish making changes, in the Main ribbon tab, click Save.



7. At the confirmation prompt, click **OK**.

Marking a capital project as complete

The Project Completion Status report allows you to mark a capital project as complete or incomplete. The projects remain available in all reports, but users cannot create purchase requests for them.

NOTE: By default, all projects display as incomplete (**Complete** column = No). You only need to use this utility to make a project complete or to change it from complete to incomplete.

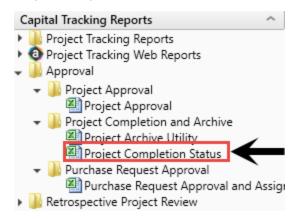
							1					
lter: NONE												
put addition	nal filter crit	teria here (ex. CTRE	Q.OrigBudg	etTOT>=5000)								
ort: (asc)												
CAP	PREQ	Project ID	Entity	Department	Project Description	Complete	Status	Original Budget	Budget Exceptions	Transfers	Adjusted Budget	Purchas Request
50 12	24 201	17.001.19000.001	1	19000	Land Purchase, For New MOB	No	Approved	_!	0	1.000.000	1,000,000	
20 2		17.001.19150.001	1	19150	General Software, ICU Software	No	Approved	1,600,000	(1,600,000)	0	1,600,000	
	15 201	17.001.26310.001	1	26310	Monitor, Transport Monitor for Patient Sedations	No	Pending	20,000	(20,000)	0	20,000	
	16 201	17.001.26310.002	1	26310	Bed, Pediatric Cribs	No	Approved	32,000	(32,000)	0	32,000	
501	17 201	17.001.26310.003	1	26310	Ice Machine, Replacement for Dietary	No	Approved	4,000	(4,000)	0	4,000	
D 0 1	18 201	17.001.26310.004	1	26310	Incubator, Isolette/ Incubator	No	Pending	38,920	(38,920)	0	38,920	
30 1	19 201	17.001.26310.005	1	26310	Incubator, Transport Incubator/ Isolette	No	Approved	120,000	(120,000)	0	120,000	
D 0 2	20 201	17.001.26310.006	1	26310	Other General Medical, Whole Body Cooling Device	No	Pending	4,800	(4,800)	0	4,800	
⇒ O 2	21 201	17.001.26350.001	1	26350	Monitor, Telemetry Transmitters	No	Approved	15,800	(15,800)	0	15,800	
⇒ O 2	22 201	17.001.26350.002	1	26350	Monitor, End Tidal CO2 monitoring	No	Pending	17,500	(17,500)	0	17,500	
D 0 2	23 201	17.001.26350.003	1	26350	Bed, CCU Beds	No	Approved	79,695	(79,695)	0	79,695	
⇒ O 2	24 201	17.001.26350.004	1	26350	Monitor, Dash 3000 Portable Monitor	No	Pending	15,000	(15,000)	0	15,000	
2 0 2	25 201	17.001.26350.005	1	26350	Oximeter, Portable Pulse Oximeters	No	Approved	7,500	(7,500)	0	7,500	
⇒ O 2	26 201	17.001.26350.006	1	26350	Other Engineering / Facilities, Flooring	No	Pending	20,000	(20,000)	0	20,000	
D 0 2	27 201	17.001.26350.007	1	26350	Phototherapy Unit, Bili Soft Photo Therapy	No	Approved	8,000	(8,000)	0	8,000	
D 0 2	28 201	17.001.26430.001	1	26430	General Furniture, Glider/ Rocker Chairs	No	Pending	10,200	(10,200)	0	10,200	
⇒ O 2	29 201	17.001.26430.002	1	26430	Incubator, Radiant Warmers	No	Approved	26,000	(26,000)	0	26,000	
⇒ O 3	30 201	17.001.26440.001	1	26440	Bassinet, Replacement for Peds	No	Pending	62,700	(62,700)	0	62,700	
⇒ O 3	31 201	17.001.26470.001	1	26470	Fetal Heart Detector, 12 Lead EKG Machine, MAC 5500	No	Approved	15,000	(15,000)	0	15,000	
⇒ O 3	32 201	17.001.26470.002	1	26470	Other General Medical, Bladder Scanner BVI 9400	No	Approved	18,000	(18,000)	0	18,000	1
⇒ O 3	33 201	17.001.26470.003	1	26470	Other General Medical, Blanket Warmer	No	Approved	35,400	(35,400)	0	35,400	
		17.001.26470.004	1	26470	Monitor, Tele Transmitters	No	Pending	45,000	(45,000)	0	45,000	
		17.001.26470.005	1	26470	Bed, Patient Beds	No	Approved	74,400	(74,400)	0	74,400	
⇒ O 3	37 201	17.001.26470.007	1	26470	General Furniture, Conference Room Furniture	No	Pending	11,000	(11,000)	0	11,000	
⇒ O 3	38 201	17.001.26770.001	1	26770	Monitor, Telemedicine	No	Pending	173,000	(173,000)	0	173,000	
⇒ O 3	39 201	17.001.26770.002	1	26770	Monitor, Patient Monitor	No	Pending	16,680	(16,680)	0	16.680	

NOTE: To remove capital projects from all report, process management, and so on, see Archiving capital projects.

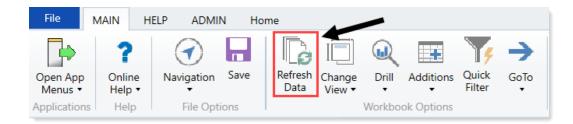
From this utility, you can also view plan files by double-clicking the folder icon in the column on the left side of the CAPREQ/POTRANS column.

To mark a capital project as complete:

 In the Cap Track Admin task pane, in the Capital Tracking Reports section, click Approval > Project Completion and Archive, and double-click Project Completion Status.



- 2. Refresh data by doing one of the following:
 - On the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 3. Do one of the following:

Option	Description
Filter the report by specific project variables	 a. In the Refresh Variables dialog, for each option to filter by, click Choose Value.
	 In the Choose Value dialog, select the values to include, and click OK.
	c. In the Refresh Dialog, click OK.
Include all projects in the report	In the Refresh Variables dialog, leave the field blank, and click OK .

- 4. In the **Complete** column, do one of the following:
 - To mark a capital project as complete, select Yes.
 - To mark a capital project as incomplete, select No.

KHA He		ompletion	Statu	JS								
Filter: NO	NE											
Input add	ditional filte	er criteria here (ex. CTRE	Q.OrigBud	getTOT>=5000)								
Sort: (as	c)											
_			_				_					
	CAPREQ	Project ID	Entity	Department	Project Description		Complete	Status	Original Budget	Budget Exceptions	Transfers	Adjusted Budget
0	124	2017.001.19000.001	1	19000	Land Purchase, For New MOB			 proved 	0	0	1,000,000	1,000,000
0	7	2017.001.19150.001	1	19150	General Software, ICU Software	~	Yes	proved	1,600,000	(1,600,000)	0	1,600,000
0	15	2017.001.26310.001	1	26310	Monitor, Transport Monitor for Patient Sedations		No	Pending	20,000	(20,000)	0	20,000
0	16	2017.001.26310.002	1	26310	Bed, Pediatric Cribs		No	Approved	32,000	(32,000)	0	32,000

5. After you finish making changes, in the Main ribbon tab, click Save.

File	MAIN H	ELP ADMIN	N Ho	ome					
Open App Menus •	? Online Help ▼	(The second seco	Save	Refresh Data	Change View •	Drill	Additions	Quick Filter	→ GoTo
Applications	Help	File Opti	ons			Workboo	ok Options		

6. At the confirmation prompt, click **OK**.

Archiving capital projects

The Project Archive Utility allows you to archive capital projects so that they no longer display in reporting, process management, or opened by users.

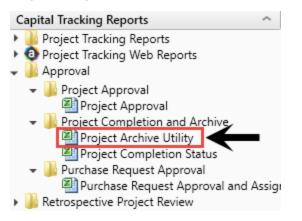
KHA H Capital	ealth Tracking											
Filter: N	ONE											
Input ad	lditional filter crite	eria here (ex. CTREQ.OrigBud	lgetTOT>=5000)									
Sort: (a:	ic)											
	CAPREQ / POTRANS	Project ID	Purchase Request ID	Entity	Department	Description	Archive	Complete	Status	Original Budget	Budget Exceptions	Transfers
~ •	2	2017.002.26480.001		2	26480	Master Facility Plan, New Cancer Center	No	No	Approved	11,125,000	(11,125,000)	
00	-	201110021204001001	PR.2017.002.26480.001.001	2	26480	Construction PO 5916	No	110	Approved	11,123,000	(11,123,000)	
00			PR.2017.002.26480.001.002	2	26480	Construction PO 5920	No		Approved			
20			PR.2017.002.26480.001.003	2	26480	Linear Accelerator Down Payment	No		Approved			
00			PR.2017.002.26480.001.004	2	26480	Architect Fees	No		Approved			
20	59		PR.2017.002.26480.001.005	2	26480	Construction PO 5930	No		Approved			
20	60		PR.2017.002.26480.001.006	2	26480	Construction PO 5940	No		Approved			
00	61		PR.2017.002.26480.001.007	2	26480	Linear Accelerator Second Payment	No		Approved			
0	62		PR.2017.002.26480.001.008	2	26480	Architect Fees - Second Payment	No		Approved			
20	63		PR.2017.002.26480.001.009	2	26480	Construction PO 5969	No		Pending			
0	64		PR.2017.002.26480.001.010	2	26480	Construction PO 5998	No		Pending			
0 0	65		PR.2017.002.26480.001.011	2	26480	Oncology Equipment	No		Pending			
0 13	66		PR.2017.002.26480.001.012	2	26480	Architect Fees - Third Payment	No		Pending			
-	3	2017.002.26140.001		2	26140	Bed, Bariatric Beds	No	No	Approved	48,050	(48,050)	
2	2		PR.2017.002.26140.001.001	2	26140	Purchase of 2 of the 3 beds currently budgeted.	No		Approved			
2	3		PR.2017.002.26140.001.002	2	26140	Last of 3 beds to order.	No		Pending			
60	4	2017.002.27550.001		2	27550	EMG (Spine Neuro), Cyber Knife	No	•	Pending	5,855,000	(5,855,000)	
20	5	2017.010.102002.001		10	102002	General Construction, Dental Surgery Expansion	No	No	Pending	968,000	(968,000)	
20		2017.002.26750.001		2	26750	Mammography Unit, Digital Mammo Unit	No	No	Pending	540,000	(540,000)	
0		2017.001.19150.001		1	19150	General Software, ICU Software	No	No	Approved	1,600,000	(1,600,000)	
0			PR.2017.001.19150.001.001	1	19150		No		Pending			
0		2017.002.21010.001		2	21010	Acquisition, SW MOB Acquisition	No	No	Pending	1,951,000	(1,951,000)	
20		2017.002.26440.001		2	26440	General Construction, Third Floor NICU	No	No	Approved	1,876,000	(1,876,000)	
20		2017.002.27640.001		2	27640	General Renovation, OR Remodel	No	No	Pending	1,000,000	(1,000,000)	
20	11	2017.002.27540.001		2	27540	General Construction, Sleep Lab Expansion	No	No	Approved	1,125,000	(1,125,000)	
		2017.002.27400.001		2	27400	General Construction, New Cardiac Center	No	No	Pending	14,250,000	(14,250,000)	
0		2017.002.26140.002		2	26140	Defibrillator / Pacemaker, Defibrillators for ED	No	No	Pending	64,500	(64,500)	
0	14	2017.002.26140.003		2	26140	Monitor, Vital Signs Monitors	No	No	Approved	22,000	(22,000)	

NOTE: The Archive status does not remove data from the system. You can reset the Archive status to reverse the process so that a project will again show in reports, process management, and to users. To mark a capital project as complete, see Marking a capital project as complete.

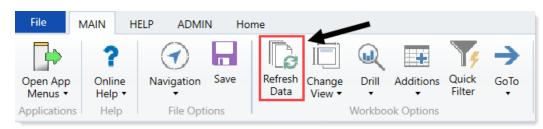
From this utility, you can also view plan files by double-clicking the folder icon in the column on the left side of the CAPREQ/POTRANS column.

To archive capital projects:

 In the Cap Track Admin task pane, in the Capital Tracking Reports section, click Approval > Project Completion and Archive, and double-click Project Archive Utility.



- 2. Refresh data by doing one of the following:
 - On the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 3. Do one of the following:

Option	Description
Filter the utility by specific project variables	 a. In the Refresh Variables dialog, for each option to filter by, click Choose Value.
	 In the Choose Value dialog, select the values to include, and click OK.
	c. In the Refresh Dialog, click OK.
Include all projects in the utility	In the Refresh Variables dialog, leave the field blank, and click OK .

- 4. In the Archive column, do one of the following:
 - To archive a capital project, select Yes.
 - To keep a project active, select No.

Proje	ect Arcl	nive Utility										
HA Hea	lth											
apital Ti	racking											
ter: NON	1E											
put addit	tional filter crit	eria here (ex. CTREQ.OrigBud	lgetTOT>=5000)									
ort: (asc)												
	CAPREQ / POTRANS	Project ID	Purchase Request ID	Entity	Department	Description	Archive	Complete	Status	Original Budget	Budget Exceptions	Transfe
•	2	2017.002.26480.001		2	26480	Master Facility Plan, New Cancer Center	No	-	Approved	11,125,000	(11,125,000)	
0	55		PR.2017.002.26480.001.001	2	26480	Construction PO 5916	Yes		Approved			
0	56		PR.2017.002.26480.001.002	2	26480	Construction PO 5920	No		Approved			

5. After you finish making changes, in the Main ribbon tab, click Save.



6. At the confirmation prompt, click **OK**.

Updating the project or purchase request creator

The CT Update Project Initiator and PR Update Purchase Request Initiator reports provide a list of all the projects/purchase requests, their descriptions, and their creators. You can change the creator by selecting a username from the Creator column. For example, if a user leaves the organization or moves to a new role.

The report also lists the process initiator, which refers to the user who started the plan file in the process. In most cases, the plan file creator and the process initiator are the same user. To change the process initiator to be different from the project creator, see Changing the process initiator for active plan files.

CT Update Project Initiator

ealth I Tracking					
CAPREQ	Project Description	Creator	ProcessInstanceID	ProcessInitiatorName	ProcessInitiatorID
2	Master Facility Plan	Admin	1236	Jess Block	
3	Bed	Admin	1237	Jess Block	
4	EMG (Spine Neuro)	GChambers	1238	Jess Block	
5	General Construction	SFalkner	1239	Jess Block	
6	Mammography Unit	JYounger	1240	Jess Block	
7	General Software	CCastleberry	1241	Jess Block	
8	Acquisition	SFalkner	1242	Jess Block	

PR Update Purchase Request Initiator

KHA Health

POTRANS	Purchase Request Description	Creator	ProcessInstanceID	ProcessInitiatorName	ProcessInitiatorID
2	Purchase of 2 of the 3 beds currently budgeted.	Admin	650	Jess Block	2
3	Last of 3 beds to order.	Admin	651	Jess Block	2
4		Admin	652	Jess Block	2
5		Admin	653	Jess Block	2
6		Admin	654	Jess Block	2
7		Admin	655	Jess Block	2

To update the project or purchase request creator:

1. In the Cap Track Admin task pane, in the Administration section, click Administrative Utilities > Security Setup, and then double-click CT Update Project Initiator or PR Update Project Initiator.

Administration ^							
Purchase Request Drivers Dimension Maintenance							
 Administrative Utilities Dimensions Update Reports CT Ref Table Update Reports GLPeriod Table Updates Other Utilities Auto Approval Security Setup Cap Tracking Security Update 							
CT Update Project Initiator							
🕨 🍌 Capital Tracking Data Diagrams							
Process Flow Configuration							
Build Imported Projects							
Create File Group							

2. From the Main ribbon tab, click Refresh Data.

TIP: You can also refresh data by pressing **F9**. At the bottom of the Refresh Variables dialog, you can also set the sort order.

3. In the **Refresh Variables** dialog, enter or select the variables to determine the records to include in the report, and press **OK**.

TIP: To include all records in the report, leave the fields blank.

4. To filter the list even further, in the Filter section above the table, type a filter statement using the appropriate filter syntax. For instructions, see Filter criteria syntax.

CT Update	Project Initiator				
Capital Tracking	₩				
Filter: NONE	· · · ·				
Input additional filter crit	eria here (ex. CTREQ20xx.OrigBudgetTOT>=5000)				
Sort: Project Description	(asc)				
CAPREQ	Project Description	Creator	ProcessInstanceID	ProcessInitiatorName	ProcessInitiatorID

Click image to view full size

PR Update Purchase Request Initiator

Capital Tracking	₩				
Filter: NONE Input additional filter crite	eria here (ex. CTREQ20xx.OrigBudgetTOT>=5000)				
Sort: Project Description (asc)				
POTRANS	Purchase Request Description	Creator	ProcessInstanceID	ProcessInitiatorName	ProcessInitiatorID

Click image to view full size

- 5. To change the person who created the project/purchase request, select the user from the dropdown in the **Creator** column.
- 6. In the Main ribbon tab, click Save.

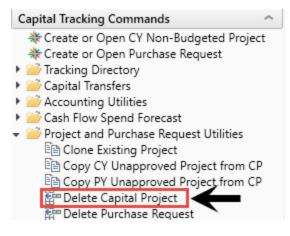
Deleting a capital project

After you delete a selected plan file, it is excluded from all queries, processes, and reports.

IMPORTANT: After you delete a project, it is permanently deleted, and there is no way to recover the data. Please use caution when using this utility.

To delete a capital project:

1. In the Cap Track Admin task pane, in the Capital Tracking Commands section, click Project and Purchase Request Utilities, and double-click Delete Capital Project.



- 2. Select one or more projects to delete, and click OK.
- 3. At the confirmation prompt, click **OK**.

Configuring project and PO auto approval and advancement

Use the CT Capital Project Auto Approval and the Purchase Request Auto Approval utilities to automatically advance and/or approve project plan files and/or purchase orders if reviewers have not reviewed them by a specified time frame. For example, if a pending capital project has been in a step for seven days, you can set the system to automatically move the project to the next step without first getting approval.

To configure project and PO auto approval and/or advancement:

- 1. In the Cap Track Admin task pane, in the Administration section, double-click CT Capital Project Auto Approval or Purchase Order Auto Approval.
- 2. From the **Approval Step** drop-down, select the step in which to configure the auto advancement and/or approval.

C	Г Capital Pro	oject A	Auto Ap	oproval				
КНА	A Health			Approval Step		Action	Days in Step to Advance	
Capital Tracking				Owner	-	Approve	0	
				Owner VP	^			
Input additional filter criteria here (ex. CTREQ.OrigBudge				IT Clinical Facilities				
_				Legal HR CFO				
	Project ID	Entity	Dept	Project Description		Current Step	Status	Orig Bud

- 3. From the Action drop-down at the top of the sheet, select one of the following actions:
 - Advance Advance the project/PO while keeping its current status.
 - Approve Approve the project/PO without moving it to the next step.
 - Advance and Approve Approve the project/PO and move it to the next step.

CT	Capital Pro	oject A	uto Ap	oproval			
KHA	Health			Approval Step	Action	Days in Step to Advance	
Capital Tracking			Owner	Approve	• 0		
					Advance		
Input	additional filter criteria	here (ex. CTRE	Q.OrigBudget	TOT>=5000)	Advance and Approve		
	Project ID	Entity	Dept	Project Description	Current Step	Status	Original Budget

4. In the **Days to Step in Advance** cell, type the number of days in which the project/PO remains in a step before it moves to the next step.

KHA	Capital Pr	oject A	Auto Ap	Oproval Approval Step	Action	Days in Step to Advance	
Capit	tal Tracking			Owner	Approve	5	
Input	additional filter criteria Project ID	here (ex. CTRI Entity	EQ.OrigBudget Dept	TOT>=5000) Project Description	Current Step	Status	Original
							Budget
				plays zero. If you leave the fi	-	•	
	nd/or approv he step.	ves the o	capital p	roject or PO immediately—r	egardless of th	ne number of day	s in

5. After making your changes, in the Main ribbon tab, click Save.

Monitoring capital project and purchase requests

Project owners can monitor their capital project and purchase requests using the following reports:

- CT Process Flow by Step or PR Process Flow by Step Shows the status of requests and where they are in the project flow. This report also shows the completed steps up to the current step and the steps to be completed. For more information, see Running the CT Process Flow by Step report or Running the PR Process Flow by Step report.
- CT Process Flow Days in Step or PR Process Flow Days in Step Similar to the CT Process Flow by Step or PR Process Flow by Step report, but adds the days in each step. For more information, see Running the CT Process Flow Days in Step report or Running the PR Process Flow Days in Step report.
- **CP Process Flow Routing Slip** or **PR Process Flow Routing Slip** Shows the request's current stage and its history, including comments. For more information, see Running the CT Process Flow Routing Slip report or Running the PR Process Flow Routing Slip report.

Running the CT Process Flow by Step report

Use this report to view the process flow details for each capital project, such as:

- Current step
- Days in current step
- Future steps with owner assignments

On the right side of the report, gray columns are approval columns and white-shaded columns are functional review areas. White-shaded cells on the rows are completed steps all the way to the last white-shaded cell on the row, which shows the current owner of that step. Grey-shaded cells are steps that have not been started.

KHA I	lealth Il Trackir		w by Step		Resolve owners of future steps?	TRUE	▼)ote: first subsequer	t refresh will	take longer	
Input	dditional	filter criteri	a here (ex. CTREQ.Ori	igBudgetTOT> = 5000)						
	CAPRE	Q Entity	Department	ProjectID	Description	Current Step Owner	Current Step Name	Days in Step	Owner	VP
e (122	1	19000	KH Contingency	Contingency, Main Campus Contingency Pool	Tom Gilbert	Owner	831	Tom Gilbert	Assignment value 'T
e (126	1	19000	2018.001.19000.001	Land Purchase, For New MOB	Completed	Completed	Completed	Assignment value 'TC	Assignment value '1
6	7	1	19150	2018.001.19150.001	General Software, ICU Software	Completed	Completed	Completed	Assignment value 'Co	C Assignment value 'H
0	0 16	1	26310	2018.001.26310.002	Bed, Pediatric Cribs	System Administrator	Funding Approval	831	Assignment value 'F\	A Assignment value 'S
e (9 17	1	26310	2018.001.26310.003	Ice Machine, Replacement for Dietary	System Administrator	Funding Approval	831	Assignment value 'F\	A Assignment value '
e (18	1	26310	2018.001.26310.004	Incubator, Isolette/ Incubator	Frederick Williams	Owner	831	Frederick Williams	Assignment value 'S
6	9 19	1	26310	2018.001.26310.005	Incubator, Transport Incubator/ Isolette	Completed	Completed	Completed	Assignment value 'F\	A Assignment value 'S
0	0 15	1	26310	2018.001.26310.001	Monitor, Transport Monitor for Patient Sedations	Sally Klein	VP	831	Assignment value 'F\	A Sally Klein
0	20	1	26310	2018.001.26310.006	Other General Medical, Whole Body Cooling Device	N/A	Functional Review	831	Assignment value 'F\	A Assignment value 'S
6	23	1	26350	2018.001.26350.003	Bed, CCU Beds	Completed	Completed	Completed	Assignment value 'M	Assignment value 'S
6 (24	1	26350	2018.001.26350.004	Monitor, Dash 3000 Portable Monitor	Maxine Watson	Owner	831	Maxine Watson	Assignment value 'S
6	21	1	26350	2018.001.26350.001	Monitor, Telemetry Transmitters	Completed	Completed	Completed	Assignment value 'M	Assignment value 'S
6	26	1	26350	2018.001.26350.006	Other Engineering / Facilities, Flooring	Sally Klein	VP	831	Assignment value 'M	\ Sally Klein
2	25	1	26350	2018.001.26350.005	Oximeter, Portable Pulse Oximeters	Completed	Completed	Completed	Assignment value 'M	Assignment value 'S

After all functional review areas have signed off on their projects, the completed cells will change to the user who updated the project for that functional area.

To run the CT Process Flow by Step report:

1. In the Cap Track Admin or Cap Track task pane, in the Process Flow section, click Process Flow, and double-click CT Process Flow by Step.

Ρ	Process Flow							
Ŧ		Process Flow						
		CT Process Flow by Step						
		CT Process Flow Days in Step						
		🔄 CT Process Flow Routing Slip						
		🔄 PR Process Flow by Step						
		🔄 PR Process Flow Days in Step						
		PR Process Flow Routing Slip						

- 2. Refresh the report data by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.

File	MAIN	HELP	ADMI	N He	ome					
Open App				Save	Refresh	Change	لعکر Drill	Additions	Quick	→ GoTo
Menus 🔻	Help	•	•		Data	View 🕶	•	•	Filter	•
Application	ns He	lp	File Opti	ions			Workboo	ok Options		

- Press F9.
- 3. Do one of the following:

Option	Description
Select the projects to include in the report	 a. In the Refresh Variables dialog, for each item to include, click Choose Value.
	b. In the Choose Value dialog, select the values to include, and click OK.
	c. In the Refresh Dialog, click OK.
Include all projects in the report	In the Refresh Variables dialog, leave the fields blank, and click OK .

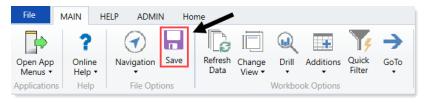
4. To display the VP (User Name) in the Approver (Step Name)column, in the Resolve owners of future steps?, select TRUE.

КНА	Hea tal T	llth racking	ss Flo	ow by Step		Resolve owners of future steps?	FALSE	•			
Input	addi	tional filter	criteria h	ere (ex. CTREQ.OrigBud	getTOT > = 5000)		FALSE				
		CAPREQ	Entity	Department	ProjectID	Description	Current Step Owner	Current Step Name	Days in Step	Owner	VP
ø	0	120	1	19000	KH_Contingency	Contingency, Main Campus Contingency Pool	Tom Gilbert	Owner	90	Tom Gilbert	CTREQ.Dept.VP
ø	0	124	1	19000	2017.001.19000.001	Land Purchase, For New MOB	System Administrator	Funding Approval	90	CTREQ.Creator	CTREQ.Dept.VP
ø	0	7	1	19150	2017.001.19150.001	General Software, ICU Software	System Administrator	Funding Approval	90	CTREQ.Creator	CTREQ.Dept.VP
e	0	16	1	26310	2017.001.26310.002	Bed, Pediatric Cribs	System Administrator	Funding Approval	90	CTREQ.Creator	CTREQ.Dept.VP
ø	0	17	1	26310	2017.001.26310.003	Ice Machine, Replacement for Dietary	System Administrator	Funding Approval	90	CTREQ.Creator	CTREQ.Dept.VP

- 5. Do any of the following:
 - To view the project, double-click the folder icon to the left of the **CAPREQ** column.
 - To view attachments, double-click the filled-in circle next to the folder icon. If the circle is not filled in, there are no attachments associated with the project.

	,	CAPREQ	Entity	Department	Description
Ð	0	248	1	15000	Dialysate Conductivity Meter
ø	\otimes	244	1	15000	Hemodialysis Unit
ß		249	1	18987	Fluid Dispensing System
ß	\otimes	236	1	19000	Contingency, Main Campus Contingency Pool
ø	\otimes	11	1	19150	General Software, ICU Software
ß	\otimes	31	1	26310	Bed, Neonatal Crib
ß	\otimes	23	1	26310	Bed, Pediatric Cribs

6. When you are ready to save the report, in the Main ribbon tab, click Save.



Running the CT Process Flow Days in Step report

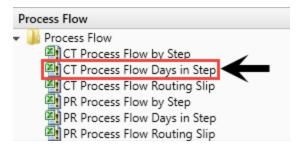
Use this report to view the average days in each step of the process flow.

PKG	Proces	ss Flow	Days in Ste	p												
filter: NC																
nput ad	ditional filter	r criteria here (e	c CTREQ.OrigBudgetTOT	>=5000)												
	CAPREQ	Entity	Department	ProjectID	Description	Current Step Owner	Current Step Name	Days in Current Step	Owner	Days in Step	VP	Days in Step	п	Days in Step	Clinical	Days in Ste
B 0	167	1	10001	CT Danding 167	Angioplasty System, Angioplasty System	Completed	Completed	Completed		Open		Open		Open		Open
80		1	10001	CT_Pending_168		Completed	Completed	Completed		Open		Open		Open		Open
8 0		1	15300	CT_Pending_128		Completed	Completed	Completed		Open		Open		Open		Open
8 0		1	15300		Contingency, Test	Completed	Completed	Completed		Open		Open		Open		Open
20		1	15300		Dialysate Conductivity Meter	Completed	Completed	Completed		Open		Open		Open		Open
20		1	19000		Contingency, Main Campus Contingency Pool	Completed	Completed	Completed		Open		Open		Open		Open
2 0		1	19000		Land Purchase. For New MOB	Completed	Completed	Completed		Open		Open		Open		Open
20		1	19150		General Software, ICU Software	Completed	Completed	Completed		Open		Open		Open		Open
20		1	26310	2017.001.26310.002		Completed	Completed	Completed		Open		Open		Open		Open
20		1	26310		Ice Machine, Replacement for Dietary	Completed	Completed	Completed		Open		Open		Open		Open
0 10		1	26310		Incubator Isolette/ Incubator	Completed	Completed	Completed		Open		Open		Open		Open
0 3		1	26310		Incubator, Transport Incubator/ Isolette	Completed	Completed	Completed		Open		Open		Open		Open
8 0		1	26310		Monitor, Transport Monitor for Patient Sedations	Completed	Completed	Completed		Open		Open		Open		Open
8 0		1	26310		Other General Medical. Whole Body Cooling Device	Completed	Completed	Completed		Open		Open		Open		Open
8 0		1	26350	2017.001.26350.003		Completed	Completed	Completed		Open		Open		Open		Open
80		1	26350		Monitor. Dash 3000 Portable Monitor	Completed	Completed	Completed		Open		Open		Open		Open
2 0		1	26350		Monitor, End Tidal CO2 monitoring	Completed	Completed	Completed		Open		Open		Open		Open
0 0		1	26350		Monitor, Telemetry Transmitters	Completed	Completed	Completed		Open		Open		Open		Open
0 0		1	26350		Other Engineering / Facilities, Flooring	Completed	Completed	Completed		Open		Open		Open		Open
0 0		1	26350		Oximeter, Portable Pulse Oximeters	Completed	Completed	Completed		Open		Open		Open		Open
0 0		1	26350		Phototherapy Unit, Bili Soft Photo Therapy	Completed	Completed	Completed		Open		Open		Open		Open
0 0		1	26430		General Furniture, Glider/ Rocker Chairs	Completed	Completed	Completed		Open		Open		Open		Open
0 3		1	26430	2017.001.26430.002	Incubator, Radiant Warmers	Completed	Completed	Completed		Open		Open		Open		Open
0 3		1	26440	2017.001.26440.001	Bassinet, Replacement for Peds	Completed	Completed	Completed		Open		Open		Open		Open
0 3		1	26470	2017.001.26470.005		Completed	Completed	Completed		Open		Open		Open		Open
0 0		1	26470		Fetal Heart Detector, 12 Lead EKG Machine, MAC 5500	Completed	Completed	Completed		Open		Open		Open		Open
80		1	26470		General Furniture. Conference Room Furniture	Completed	Completed	Completed		Open		Open		Open		Open
20		1	26470		Monitor. Tele Transmitters	Completed	Completed	Completed		Open		Open		Open		Open
0 0		1	26470		Other General Medical. Bladder Scanner BVI 9400	Completed	Completed	Completed		Open		Open		Open		Open
0 0		1	26470	2017.001.26470.003	Other General Medical, Blanket Warmer	Completed	Completed	Completed		Open		Open		Open		Open
0 0		1	26770		Dosimeter, In Vivo Dosimetry	Completed	Completed	Completed		Open		Open		Open		Open

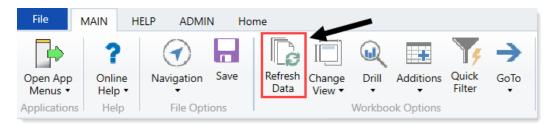
This report is very similar to the Running the CT Process Flow by Step report report. The only difference is this report adds days in each step.

To run the CT Process Flow by Step report:

1. In the Cap Track Admin or Cap Track task pane, in the Process Flow section, click Process Flow, and double-click CT Process Flow Days in Step.



- 2. Refresh the report data by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 3. Do one of the following:

Option	Description
Select the reports to include in the report	 a. In the Refresh Variables dialog, for each item to include, click Choose Value.
	 In the Choose Value dialog, select the values to include, and click OK.
	c. In the Refresh Dialog, click OK.
Include all projects in the report	In the Refresh Variables dialog, leave the fields blank, and click OK.

- 4. Do any of the following:
 - To view the project, double-click the folder icon to the left of the CAPREQ column.
 - To view attachments, double-click the filled-in circle next to the folder icon. If the circle is not filled in, there are no attachments associated with the project.

	,	CAPREQ	Entity	Department	Description
ø	\otimes	248	1	15000	Dialysate Conductivity Meter
ß	\otimes	244	1	15000	Hemodialysis Unit
ß		249	1	18987	Fluid Dispensing System
ß	\otimes	236	1	19000	Contingency, Main Campus Contingency Pool
ß	\otimes	11	1	19150	General Software, ICU Software
ß	\otimes	31	1	26310	Bed, Neonatal Crib
¢	\otimes	23	1	26310	Bed, Pediatric Cribs

5. When you are ready to save the report, in the Main ribbon tab, click Save.

File	MAIN H	ELP ADMI	N Ho	me					
Open App Menus •	? Online Help ▼	Navigation	Save	Refresh Data	Change View •	Drill	Additions	Quick Filter	
Applications	Help	File Opti	ions			Workbo	ok Options		

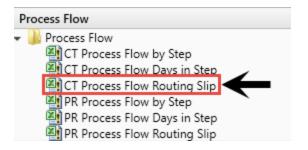
Running the CT Process Flow Routing Slip report

Use this report to view the completed process flow routing activity for a selected or all projects.

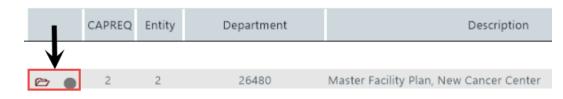
CT PI Capital Ti		s Flow	Routing	Slip									
	CAPREQ	Entity	Department	Project ID	Description	Date	Due Date	Event Owner	Step Number	Days in Step	Step Name	Event Type	
0	7	1	19150	2017.001.19150.001	General Software, ICU Software								
						7/26/2017	(no due date)	System Administrator	1		Owner	ActivateProcess	
						7/26/2017	(no due date)	System Administrator	1		Owner	ActivateStep	Assigned
						7/26/2017	(no due date)	System Administrator	1		Owner	AbortStep	Aborted I
						7/26/2017	(no due date)	System Administrator	7		Funding Approval	SetCurrentStep	Moved fn
						7/26/2017	(no due date)	System Administrator	7	99	Funding Approval	ActivateStep	Assigned
P 0	8	2	21010	2017.002.21010.001	Acquisition, SW MOB Acquisition								
						7/26/2017	(no due date)	System Administrator	1		Owner	ActivateProcess	
						7/26/2017	(no due date)	System Administrator	1	99	Owner	ActivateStep	Assigned

To run the CT Process Flow Routing Slip report:

1. In the Cap Track Admin or Cap Track task pane, in the Process Flow section, click Process Flow, and double-click CT Process Flow Routing Slip.



- 2. In the Refresh Variables dialog, click Choose Value.
- 3. In the **Choose Values** dialog, select the check mark boxes next to the capital projects to include in the report, and click **OK**.
- 4. In the Refresh Variables dialog, click OK.
- 5. Do any of the following:
 - To view the project, double-click the folder icon to the left of the CAPREQ column.
 - To view attachments, double-click the filled-in circle next to the folder icon. If the circle is not filled in, there are no attachments associated with the project request.



6. When you are ready to save the report, in the Main ribbon tab, click Save.



Running the PR Process Flow by Step report

Use this report to view the process flow details for each purchase request, such as:

- Current step
- Days in current step
- Future steps with owner assignments

On the right side of the report, gray columns are approval columns and white-shaded columns are functional review areas. White-shaded cells on the rows are completed steps all the way to the last white-shaded cell on the row, which shows the current owner of that step. Grey-shaded cells are steps that have not been started.

CHA He		s Flow	by Step										
		Resolve or	wners of future steps?	TRUE			Note: first subsequent refr	esh will take lo	nger				
ilter: NO	ONE												
nput ad	ditional filter c	riteria here (ex.	CTREQ.OrigBudgetTOT	>=5000)									
	POTRANS	Entity	Department	Purchase Request ID	Request Notes	Current Step Owner	Current Step Name	Days in Step	Owner	VP	Purchasing	Accounting	Close
00	5	1	26310	PR.2018.001.26310.002.001	Pediatric Cribs	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administr
20		1	26310	PR.2018.001.26310.003.001	Ice Machine	Charlie Credit	Accounting	833	System Administrator		Brooke Needham	Charlie Credit	System Administ
e 0	7	1	26310	PR.2018.001.26310.005.001	Transport Incubator/ Isolette	Charlie Credit	Accounting	833	System Administrator		Brooke Needham	Charlie Credit	System Administ
0	8	1	26350	PR.2018.001.26350.001.001	Telemetry Transmitters	Charlie Gredit	Accounting	833	System Administrator		Brooke Needham	Charlie Credit	System Administ
0 0	9	1	26350	PR.2018.001.26350.003.001	CCU Beds	Charlie Gredit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
80	10	1	26350	PR.2018.001.26350.005.001	Portable Pulse Oximeters	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
80	11	1	26350	PR.2018.001.26350.007.001	Billi Soft Photo Therapy	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
00	12	1	26430	PR.2018.001.26430.002.001	Radiant Warmers	Charlie Gredit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
00	13	1	26478	PR.2018.001.26470.001.001	12 Lead EKG Machine, MAC 5500	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
0	14	1	26470	PR.2018.001.26470.002.001	Bladder Scanner BVI 9400	Sally Klein	VP	833	System Administrator	Sally Klein	Brooke Needham	Charlie Gredit	System Administ
80	15	1	26470	PR.2018.001.26470.003.001	Blanket Warmer	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
00	16	1	26470	PR.2018.001.26470.005.001	Patient Beds	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
0 0	17	1	26770	PR.2018.001.26770.003.001	In Vivo Dosimetry	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
0	18	1	26770	PR.2018.001.26770.005.001	Tip Confirmation System	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Gredit	System Administ
0	19	1	26780	PR.2018.001.26780.002.001	Equipment for Pre/Post Area	System Administrator	Owner	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
0 0	20	1	26780	PR.2018.001.26780.004.001	Flex Vision Lab 2	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
00	21	1	26780	PR.2018.001.26780.006.001	Cardiolab EP Recorder	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
80	22	1	26780	PR.2018.001.26780.008.001	EP Med Stimulator	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
0	23	1	26790	PR.2018.001.26790.002.001	Electronic Whiteboard Tracking	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
00	24	1	26790	PR.2018.001.26790.004.001	Patient Monitors	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
00	25	1	26810	PR.2018.001.26810.001.001	Electro Surgical Units	Charlie Credit	Accounting	833	System Administrator	Scott Johanson	Brooke Needham	Charlie Credit	System Administ
20	26	1	26810	PR.2018.001.26810.003.001	Medical Procedural Cart	Charlie Credit	Accounting	833	System Administrator	Scott Johanson	Brooke Needham	Charlie Credit	System Administ
80	27	1	26810	PR.2018.001.26810.005.001	Ventilator	Charlie Credit	Accounting	833	System Administrator	Scott Johanson	Brooke Needham	Charlie Credit	System Administ
0	28	1	27240	PR.2018.001.27240.004.001	EMU Viewing Station	Charlie Gredit	Accounting	833	System Administrator	Scott Johanson	Brooke Needham	Charlie Credit	System Administ
00	29	1	27370	PR.2018.001.27370.002.001	BIPAP	Charlie Credit	Accounting	833	System Administrator	Steve Jackson	Brooke Needham	Charlie Credit	System Administr
80	30	1	27640	PR.2018.001.27640.001.001	Ultrafin Stirrup	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
0	31	1	27640	PR.2018.001.27640.003.001	C-arm	Charlie Credit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administr
0	32	1	27640	PR.2018.001.27640.005.001	Bookwalter System	Charlie Gredit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ
00	33	1	27640	PR.2018.001.27640.007.001	Budde Halo Retractor System	Charlie Gredit	Accounting	833	System Administrator	Sally Klein	Brooke Needham	Charlie Credit	System Administ

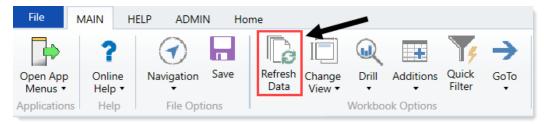
After all functional review areas have signed off on the purchase requests, the completed cells will change to the user who updated the purchase request for that functional area.

To run the PR Process Flow by Step report:

1. In the Cap Plan Admin or Cap Plan task pane, in the Process Flow section, click Process Flow, and double-click PR Process Flow by Step.

Ρ	rocess Flow
Ŧ	🍌 Process Flow
	CT Process Flow by Step
	🔄 CT Process Flow Days in Step
	CT Process Flow Routing Slip
	PR Process Flow by Step
	PR Process Flow Days in Step
	PR Process Flow Routing Slip

- 2. Refresh the report data by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 3. Do one of the following:

Option	Description
Select the purchase requests to include in the report	 a. In the Refresh Variables dialog, for each item to include, click Choose Value.
	 b. In the Choose Value dialog, select the values to include, and click OK. c. In the Refresh Dialog, click OK.
Include all purchase requests in the	In the Refresh Variables dialog, leave the fields blank, and
report	click OK.

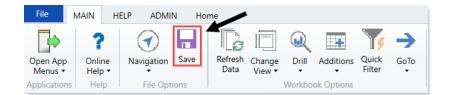
4. To display the VP (User Name) in the Approver (Step Name)column, in the Resolve owners of future steps?, select TRUE.

PKG	Proc		by Step						
		Resolv	e owners of future steps	FALSE	•				
Filter: N	ONE			—					
Input additional filter criteria here (ex. CTREQ.OrigBudgetTOT>=3000)									
	POTRA	NS Entity	Department	Purchase Request ID	Request Notes				
0) 122	1	19000	PR.2017.001.19000.001.060					
) 125	1	19000	PR.2017.001.19000.001.062					

- 5. Do any of the following:
 - To view the purchase request details, double-click the folder icon to the left of the **POTRANS** column.
 - To view attachments, double-click the filled-in circle next to the folder icon. If the circle is not filled in, there are no attachments associated with the request.

		POTRANS	Entity	Department
ĉ	0	125	1	19000
۲ ۲		\leftarrow	1	19150
B	\otimes	71	1	19150

6. When you are ready to save the report, in the Main ribbon tab, click Save.



Running the PR Process Flow Days in Step report

Use this report to view the average days in each step of the process flow.

R Process Flow Ro	uting S	ilip									
POTRANS Entity Depa	artment	Purchase Request ID	Request Notes	Date	Due Date	Event Owner	Step Number	Days in Step	Step Name	Event Type	Comments
3 2 2t	6140	PR.2018.002.26140.001.002	Last of 3 beds to order.								
				7/29/2015	(no due date)	System Administrator	1		Owner	ActivateProcess	
				7/29/2015	(no due date)		1		Owner	ActivateStep	
				7/29/2015	(no due date)	System Administrator	1		Owner	AbortStep	Aborted because current step was moved to step 'Owner (Step 1 of 5)'
				7/29/2015	(no due date)	System Administrator	2		VP	SetCurrentStep	Moved from step 'Owner (Step 1 of 5)'
				7/29/2015	(no due date)	System Administrator	2		VP	ActivateStep	
				7/29/2015	(no due date)	System Administrator	2		VP	AbortStep	Aborted because current step was moved to step 'VP (Step 2 of 5)'
				7/29/2015	(no due date)	System Administrator	3		Purchasing	SetCurrentStep	Moved from step 'VP (Step 2 of 5)'
				7/29/2015	(no due date)	System Administrator	3		Purchasing	ActivateStep	
				8/3/2015	(no due date)	System Administrator	3		Purchasing	RegenerateTasks	
				8/17/2015	(no due date)	System Administrator	3		Purchasing	RegenerateTasks	

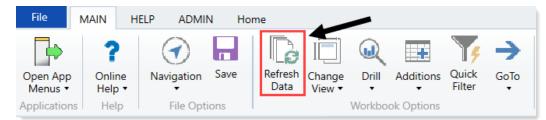
This report is very similar to the Running the PR Process Flow by Step report report. The only difference is this report adds days in each step.

To run the PR Process Flow by Step report:

1. In the Cap Track Admin or Cap Track task pane, in the Process Flow section, click Process Flow, and double-click PR Process Flow Days in Step.

Ρ	Process Flow									
,	Process Flow									
	🔄 CT Process Flow by Step									
	🎒 CT Process Flow Days in Step									
	🔄 CT Process Flow Routing Slip									
	PR Process Flow by Step									
	PR Process Flow Days in Step									
	PR Process Flow Routing Slip									

- 2. Refresh the report data by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



• Press F9.

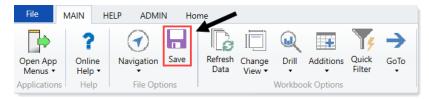
3. Do one of the following:

Option	Description
Select the purchase requets to include in the report	 a. In the Refresh Variables dialog, for each item to include, click Choose Value. b. In the Chaose Value dialog, select the values to provide the values to be a select to be a select the values to be a select the values to be a select to be a select to be a select to be a select the values to be a select to be a se
	 In the Choose Value dialog, select the values to include, and click OK.
	c. In the Refresh Dialog, click OK.
Include all purcahse requests in the report	In the Refresh Variables dialog, leave the fields blank, and click OK .

- 4. Do any of the following:
 - To view the purchase request details, double-click the folder icon to the left of the **POTRANS** column.
 - To view attachments, double-click the filled-in circle next to the folder icon. If the circle is not filled in, there are no attachments associated with the request.

		POTRANS	Entity	Department
ß	\otimes	125	1	19000
ß		←	1	19150
B	0	71	1	19150

5. When you are ready to save the report, in the Main ribbon tab, click Save.



Running the PR Process Flow Routing Slip report

Use this report to view the completed process flow routing activity for a selected or all purchase requests.

PR Process Flow Routing Slip

Capital	Tracking										
	POTRANS	Entity	Department	Purchase Request ID	Request Notes	Date	Start Date	Due Date	Event Owner	Step Number	Days in Step
60	5	1	26310	PR.2017.001.26310.002.001	Pediatric Cribs						
	6	1	26310	PR.2017.001.26310.003.001	Ice Machine						
	7	1	26310	PR.2017.001.26310.005.001	Transport Incubator/ Isolette						
6	2	2	26140	PR.2017.002.26140.001.001	PR.2017.002.26140.001.001 Purchase of 2 of the 3 beds currently budgeted.						
6	3	2	26140	PR.2017.002.26140.001.002	Last of 3 beds to order.						
60	4	2	26140	PR.2017.002.26140.003.001	Vital Signs Monitors						

To run the PR Process Flow Routing Slip report:

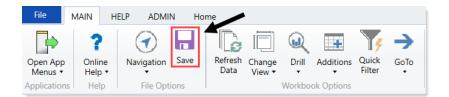
1. In the Cap Track Admin or Cap Track task pane, in the Process Flow section, click Process Flow, and double-click PR Process Flow Routing Slip.

Ρ	Process Flow									
Ŧ		Process Flow								
		🔄 CT Process Flow by Step								
		🔄 CT Process Flow Days in Step								
		🔄 CT Process Flow Routing Slip								
		PR Process Flow by Step								
		PR Process Flow Days in Step								
		PR Process Flow Routing Slip								

- 2. In the Refresh Variables dialog, click Choose Value.
- 3. In the Choose Values dialog, select the purchase requests to include in the report, and click OK.
- 4. In the Refresh Variables, click OK.
- 5. Do any of the following:
 - To view the purchase request details, double-click the folder icon to the left of the **POTRANS** column.
 - To view attachments, double-click the filled-in circle next to the folder icon. If the circle is not filled in, there are no attachments associated with the request.

		POTRANS	Entity	Department
ß	0	125	1	19000
¢		←	1	19150
B	\otimes	71	1	19150

6. When you are ready to save the report, in the Main ribbon tab, click Save.



Working with Purchase Requests

Purchase requests capture all the key purchasing information necessary to buy capital items required for an approved capital project.

Creating a purchase request

The purchase request form includes the following tabs:

- **Purchase Request Header** Includes fields for entering information about the purchase request, including the vendor, the purchase order number, the date the item or service is needed, and a description of the request.
- Line Item Detail Includes fields related to entering the specific items related to the purchase request, such as the item number and description, the general ledger account assigned to the line item as well as model and manufacturer information.

NOTE: The purchase request fields described in this section may differ depending on how your organization has configured the purchase request form. Additional line item text entry fields or picklists may be available if enabled in the system for additional data capture.

From each tab, you can view the plan file for the project by clicking **Capital Project**. You can also view the routing slip for the approval process by clicking **Routing**. Both of these links are at the top right corner of the page.

	rrans 68 Project ID : 2017.001.1900 and Purchase, For N		O (EHS)	Administration)								Save		
Pr	oject Information			PURCHASE REQ		DER	LINE ITEM	DETAIL						
^	BUDGET			(*) Indicates a required fie	ld						\rightarrow	Capital Project	t 👎 Routin	ng ?
	Default		•	Total Purchase	Reauest	t	0	.00 Details			, ,			
	Original Budget		0.00		11									
	Budget Exceptions	(0.00	+ Add Line Item	Collaps	se all		Freight Charg	es	0.00	GL Account	17611 - Softwar	e 🔻	
	Transfers	1,000,000	0.00	Item # 1 - ENTER A I	DESCRIPTIO	N								
	Adjusted Budget	1,000,000	0.00											
	Requested		0.00	CAPITAL QTY		CAPITAL UNIT \$		UNIT OF MEAS	JRE			LINE TOTAL \$		
	Committed		0.00		0		0.00	Each	•				0.00	
	Remaining Balance	1,000,000	0.00	Туре		Capital				•	GL Account*	0 - Unassigned/No		
	Actual	(0.00			Capital				_				
	Operating Expense Requested	(0.00	Item Description							Item #	Select Item	•	
	Operating Expense Committed		0.00	Model							Catalog#			
^	STATUS			Manufacturer							Plan Date (mm/dd/yyyy)	10/23/2017	🛱 🗙	
	Sent Status	Pending	•	Notes										
	Status	Pending	•											

TIP: To enter a purchase request with more than ten line items, we recommend using the CT Purchase Request Import Utility. This utility allows you to enter a large number of line items using a single screen.

After a purchase request is created, users can search for it using the values in the following fields:

- POTRANS
- Purchase request ID
- PO number
- CAPREQ
- Request notes

To search for and open an existing purchase order request, see Opening a purchase request.

To create a purchase request:

1. From the Axiom Capital Tracking home page, click Create or Open Purchase Requests.

NOTE: To access this location from the Cap Track or Cap Tracking Admin task pane, in the Capital Tracking Commands section, double-click Create Purchase Request.

Create or Open	Capital Plan File Management: Create or Open Purchase Request Create or open plan files for the Purchase Request File Group. Plan files will open in a new window.
Purchase Requests	
Launch Capital Transfer Utility	Capital Plan File Management: Launch the Capital Transfer Utility Launch the Capital Transfer Utility. In this utility, you will be able to transfer funds between capital projects.
Launch CT Summary Report	Capital Reports: Launch the Capital Tracking Summary Report Launch the CT Summary Report. In this report, you will be able to view a summary of all Capital Tracking and their associated Purchase Requests.
Edit Drivers	Capital System Administration: Adjust Purchase Request Drivers Adjust the Drivers for your Purchase Request File Group.

2. In the Capital Tracking dialog, in the Create a New Purchase Request section, from the Capital Project drop-down, select the approved capital project.

O Capital Tracking				×
PURCHASE REQUEST				
Open Existing Purchase Request				
Purchase Request (Begin typing to search)	Select	•	ОК	
Create a New Purchase Request				
Capital Project (Begin typing to search)	Select	•	ОК	
	2017.001.19150.001 - General Software, ICU Software (7)			
	2017.001.26310.002 - Bed, Pediatric Cribs (16)			
	2017.001.26310.003 - Ice Machine, Replacement for Dietary (17)			
	2017.001.26310.005 - Incubator, Transport Incubator/ Isolette (19)			
	2017.001.26350.001 - Monitor, Telemetry Transmitters (21)			
	2017.001.26350.003 - Bed, CCU Beds (23)			
	2017.001.26350.005 - Oximeter, Portable Pulse Oximeters (25)		-	

NOTE: You can also type in the field, and the system will automatically display capital projects that include those numbers or words in the project name.

- 3. Click OK.
- 4. On the left side of the screen, in the **Budget** section, select the budget to view. You can view the entire budget for the project or only for the current year.

roject Information					ER LINE ITEM	DETAIL				
BUDGET		e) Indicates a required fiel	Id					🖿 Capital Projec	at ≢Rout
Default Default	×	1	otal Purchase	Request	C	0.00 Details				
CY Tracking	0,00	1	Add Line Item	Collaps	e all	Freight Charges	0.00	GL Account	17611 - Softwar	e 🔻
Transfers	1,000,000.00	~	Item #1 - ENTER A D	ESCRIPTION						
Adjusted Budget	1,000,000.00									
Requested	0.00		CAPITAL QTY		CAPITAL UNIT \$	UNIT OF MEASURE			LINE TOTAL \$	
Committed	0.00			0	0.00	Each 🔻				0.00
Remaining Balance	1,000,000.00		Type		Capital		•	GL Account*	0 - Unassigned/N	ot A 🔻
Actual	0.00		Item Description					ltem #	Select Item	•
Operating Expense Requested Operating Expense Committed	0.00		Model						occornen	
Operating Expense Committee	0.00		Model					Catalog#		
STATUS			Manufacturer					Plan Date (mm/dd/yyyy)	10/23/2017	🗰 🗙

5. In the Purchase Request Header tab, complete the following fields, as applicable:

Option	Description
Purchase Request #	Displays a unique purchase Request ID that the system automatically assigns for tracking purposes.
Request Date	Displays the date that the purchase request was created. This date is automatically assigned by the system.
PO#	Type the Purchase Order number.
	NOTE: This field can only be edited by users assigned to the Capital Tracking Purchasing or Capital Tracking Admin roles. This field can also be sent back to Axiom after the PO is created in your organizations purchasing system.
Date Needed (mm/dd/yyyy)	Select the date the item or service is needed.
Request Notes	Type purchase request header notes and a description. This is the default field used during workflow notifications. It should be a good descriptor of what the purchase is for the end users within the workflow.
Attachment Notes	Type supporting notes related to file attachments (if applicable).
Vendor	Select the vendor to use to fulfill the request. If a vendor was selected on the Axiom Capital Planning side for this project, then the vendor automatically displays.
Deliver To	Select the department to deliver the requested item or service to.
	NOTE: Kaufman Hall can build a nightly feed from your source system to identify additional delivery areas as they become available.
Department	Select the department in which the item or service is being requested.

6. In the Line Item tab, complete the following fields, as applicable:

Option	Description
Freight Charges	Type the amount charged for shipping and other freight charges associated with an item.

Option	Description				
GL Account	Select the account to use for freight charges.				
	NOTE: The system displays a default account used by your organization for these types of charges.				
Capital Qty	Type the quantity needed.				
Capital Unit \$	Type the amount of each unit.				
Unit of Measure	Select the unit of measure for the requested item.				
	NOTE: Kaufman Hall can build a nightly import table for your organization, if needed.				
Capital Tax Rate	Enter the tax rate to use to calculate taxes (if applicable).				
Capital Tax \$	Displays the tax rate for the entire capital cost of the request. This amount is automatically calculated by the system.				
Line Total \$	Displays the Capital Qty multiplied by the Capital Unit \$ plus Capital Tax Taxes (if applicable). This amount is automatically calculated by the system.				
Туре	Select the unit of measure for the line item.				
GL Account	Displays the General Ledger account assigned to the line item, but you can change the default by selecting a value from the list.				
Item Description	Type a description for the item.				
ltem #	Select the number associated with the item. This field is often re-purposed and not necessarily used from an item master your organization may have.				
Model	Type additional Information related to the model of the item, if applicable.				
Catalog#	Type the catalog number of the item, if applicable.				
Manufacturer	Type the manufacturer of the item, if applicable.				
Plan Date (mm/dd/yyyy)	Select the date that the line item is expected to be ordered.				
	NOTE: This may only be applicable if ordering line items at different times or setting up payment terms for a contract.				

Option	Description
Department	Select the department in which the item or service is being requested.
	TIP: The department that displays in this field is the one originally selected in the Purchase Request Header tab, but you can change it here, if needed.
Notes	Type additional notes needed to describe the line item, if needed.

- 7. To add an additional line item, at the top of the page, click + Add Line Item.
- 8. In the **Status** section, do any of the following:
 - In the Sent Status field, select whether the purchase order is Pending or Sent for approval.
 - In the Status field, select the status of the request: Pending, Approved, or Declined.

NOTE: You can only set the status if you have administrator or approver privileges.

9. When you are done making changes, in the upper right corner of the page, click **Save**.

NOTE: If the requested amount exceeds the current year or total budged threshold limit configured by your Capital Tracking administrator, the system displays a message and does not allow you to save the request.

Opening a purchase request

You can search for purchase order requests using the following information:

- POTRANS
- Purchase request ID
- PO number
- CAPREQ
- Request notes description

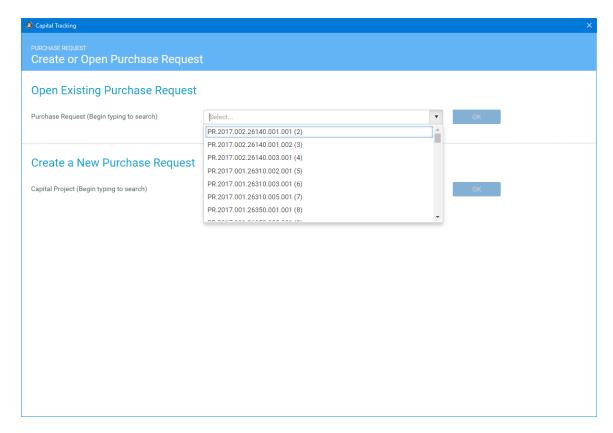
To open a purchase request:

1. From the Axiom Capital Tracking home page, click Create or Open Purchase Requests.

NOTE: To access this location from the Cap Track or Cap Tracking Admin task pane, in the Capital Tracking Commands section, double-click Open Purchase Request.

Create or Open Purchase Requests	Capital Plan File Management: Create or Open Purchase Request Create or open plan files for the Purchase Request File Group. Plan files will open in a new window.					
Furchase Requests	·					
	Capital Plan File Management: Launch the Capital Transfer Utility					
Launch Capital Transfer Utility	Launch the Capital Transfer Utility. In this utility, you will be able to transfer funds between capital projects.					
Launch CT Summary Report	Capital Reports: Launch the Capital Tracking Summary Report Launch the CT Summary Report. In this report, you will be able to view a summary of all Capital Tracking and their associated Purchase Requests.					
Edit Drivers	Capital System Administration: Adjust Purchase Request Drivers Adjust the Drivers for your Purchase Request File Group.					

2. In the **Capital Tracking** dialog, in the **Open Existing Purchase Request** section, select the purchase request from the drop-down.



3. Click Open.

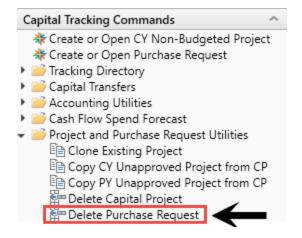
Deleting a purchase request

After you delete a purchase request, the data is deleted from the tables in the system.

IMPORTANT: After you delete a purchase request, it is permanently deleted, and there is no way to recover the data. Please use caution when performing this function.

To delete a purchase request:

1. In the Cap Track Admin or Cap Track task pane, in the Capital Tracking Commands section, click Project and Purchase Request Utilities, and double-click Delete Purchase Request.



- 2. In the Delete Plan Files dialog, select one or more plan files to delete, and click OK.
- 3. At the confirmation prompt, click **OK**.

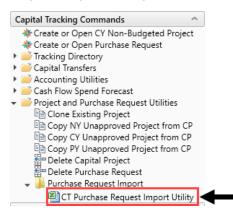
Importing purchase requests

Use this utility to enter a purchase request with a large number of line items into Axiom Capital Planning using a single screen.

NOTE: Columns and fields marked with an asterisk are required in order to save the data to the database.

To import purchase requests:

 In the Cap Plan Admin task pane, in the Capital Tracking and Commands section, click Project and Purchase Request Utilities > Purchase Request Import, and double-click CT Purchase Request Import Utility.



2. In the PurchReq tab, complete the following fields:

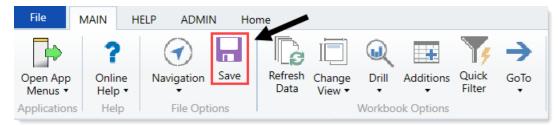
Option	Description
Project ID* CAPREQ	Double-click the field to select the unique identity number assigned to the capital project.
Request Notes*	Type purchase request notes.
Creator*	Select the name of person making the purchase request.
Vendor	Select the vendor to fulfill the purchase request.
Deliver To	Double-click the filed to select the location in which to deliver the item or service.
Date Needed	Type the date in which the item or service is needed.
РО	Type the PO to assign for the purchase request
Attachment Notes	Type any extra notes needed to explain or validate the purchase request.

3. In the LineItemDetail tab, complete the following fields for each line item for the purchase request:

Option	Description
Line Number	Displays the line item number of the purchase request.
Туре*	Select the unit of measure for the line item.
GL Account*	Select the General Ledger account to assign to the line item.
Notes*	Type additional notes needed to describe the line item, if needed.
ltem #	Select the number associated with the item. This field is often repurposed and not necessarily used from an item master your organization may have.
Item Description	Type a description for the item.
Plan Date (mm/dd/yyyy)*	Type the date that the line item is expected to be ordered.
	NOTE: This may only be applicable if ordering line items at different times or setting up payment terms for a contract.
Model	Type additional Information related to the model of the item, if applicable.
Manufacturer	Type the manufacturer of the item, if applicable.
Catalog#	Type the catalog number of the item, if applicable.

Option	Description
Unit of Measure	Select the unit of measure for the requested item.
	NOTE: Kaufman Hall can build a nightly import table for your organization, if needed.
Quantity	Type the quantity needed.
Unit \$	Type the amount of each unit.
Tax Rate	Enter the tax rate to use to calculate taxes (if applicable).
Tax \$	Displays the tax rate for the entire capital cost of the request. This amount is automatically calculated by the system.
Line Total	Displays the Capital Qty multiplied by the Capital Unit \$ plus Capital Tax Taxes (if applicable). This amount is automatically calculated by the system.
Total Tax \$	Displays the total tax amount for all the line items in the purchase request.
Total \$	Displays the total amount for all the line items in the purchase request.

4. After you are done entering the information, in the Main ribbon tab, click Save.



After you save the data to the database, use the Rebuild Purchase Request Utility to create the purchase request in the system.

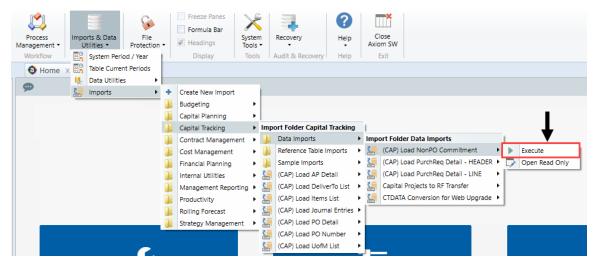
Importing non-PO commitments

Use this utility to import actuals not associated with a PO number.

NOTE: Make sure to have your data ready for import before using this utility.

To import non-PO commitments:

 In the Admin ribbon tab, click Import & Data Utilities > Imports > Capital Tracking > Data Imports > (CAP) Load NonPO Commitment > Execute.



Viewing process routing details

The Process Routing page allows you to view the current process status and details for a particular capital project or purchase request. If you are the current step owner, you can also complete the task from this page. If you are an administrator, you can complete the task for the current step owner and/or move the step to another step in the process.

Any user who can access the plan file can access this page, but only the current step owner can complete the task. If you are not the current step owner, then the action button(s) at the top are grayed out.

						C?	Ц3	J	AXIOM
									☆?
	Master Requester : Eva	Facility Plan,New Cal In Klein Capital Request : 4 - Ma		ter West n,New Cancer Center West				4 Open Ca	pital Project
1	1 Owne	r REJECT	2 VP	APPROVE 3 Functional Review					
	Previous 2 All Steps	3 All Process Activity	Current Ø Deny request	Next					
		Step	Status	Details	Days in Step				
	01	Owner	Completed	Completed by Jodie Landes on 2/7/2020	24				
	2	VP	Active	Assigned to Admin Admin	0				
	3	Functional Review	Not Started						

On this page, you can see the following information:

1. This section displays the current step of the plan file, as well as the next step in the progression. If

the current step is an approval step, then the prior step also displays because the plan file may be rejected back to it.

- 2. The **All Steps** tab shows the plan file's status in the full step progression. You can see which steps have been completed or skipped, the current step, and future steps.
- 3. The All Process Activity tab shows the complete process details for the plan filet, including activities such as step activation and completion, task regeneration, and comments made when completing tasks.
- 4. To open the plan file from this page, click the **Open Capital Project** link.

TIP: It is likely that you will not need to use this link because the system opens the Process Routing page in a new browser tab, meaning that the plan file remains open in the browser.

Opening the Process Routing page

You can access the Process Routing page by clicking the **Routing** link in the top right corner of the plan file page.

	Project ID CP_Pending_5 (CAPREQ 5) (Project Type : Nursing (Department: 26140 (EMC Emergency Room (CDM)) (Status: Pending) (Attachments: 0 Bed, Bariatric Beds							Attachments	Save
SETUP PROJECT FINANCIAL SUMMARY				SUMMARY	C [*] Executiv	e Summary 茾 Routing	(*) Indicates	a required field	
Descr	ription	Details	Picklists	Capital Questions	Decision Matrix	Business Plan			

Capital project screen

POTRANS 4 Project ID : ABV201.023 Department: 10000 (EHS Balance Sheet) Amalgamator, Threshold - Additional Sheet Test Save									
Project Information	(*) Indicates a	required field							
A BUDGET									

Purchase request screen

Completing the process task

If you are the current step owner, then you can complete the process task for the plan file request by clicking the appropriate action buttons at the top of the page:

- If the current step is an Edit Plan File step, then click **Submit** to submit the plan file request to the next step.
- If the current step is an Approval step, then click **Approve** to approve the plan file request and move it to the next step, or click **Reject** to reject the plan file and return it to the prior step.

Clicking any of these actions opens the task completion dialog. In this dialog, you can optionally enter a comment to that the system stores in the process history and sends to the next step owner.

Some approval steps may also provide the option to abort the process for the project or purchase request, meaning that the request is stopped in the process and does not progress any further. This action is called **Deny request** and displays underneath the current step, as shown in the following example:

Master Facility Plan,New Cancer Center West Capital Request : 4 - Master Facility Plan,New Cancer Center West 1 Owner 2 VP 3 Functional Reveal Previous Current Current Next

If you choose to deny the request and abort the project/purchase request in the process, the plan file is effectively removed from the process. The system gives you the opportunity to enter an optional comment to explain the denial.

IMPORTANT: The denial action cannot be reversed. Once a plan file has been aborted in the process, only a process administrator can restart it if necessary.

Viewing plan file information

The Process Routing page shows plan file information in the Information panel when you access the page. This panel shows details about the plan file, which may be useful in determining whether you are ready to complete the process task. You can also open the plan file by clicking the Open Capital Project link at the top of the panel.

Capital Planning					
≡ 🗭 🚯					☆ ?
Master Facility Plan New Cancer Center West	Master Fac	sility Plan,New Ca		ter West NNew Cancer Center West	Open Capital Project
VP: Admin Proposed Vendor: Purchase Period: NA Description: New Cancer Contert that will be on the east side of the city	1 Owner Previous	REJECT	2 VP Current Ø Deny request	APPROVE 3 Functional Review Next	ve Current Step
Justification: St. Mary's has expanded their cancer services over the last 3	All Steps All Pr	ocess Activity			
years, and we need a new facility to remain competitive while jumping on the opportunity to increase market share.	Step		Status	Details	Days in Step
	🕑 🔟 Owr	er	Completed	Completed by Jodie Landes on 2/7/2020	24
	2 VP		Active	Assigned to Admin Admin	0
	3 Fun	ctional Review	Not Started		

You can toggle this panel open and closed by clicking the Information icon .

Capital project screen

Capital Tracking							48 L	JL.	AXIOM
≡ ୭ 0 +									☆?
🗅 Open Purchase Request	Requester: Carl Cov	wgur POTRAI	NS: 4					Open Purch	nase Request
POTRANS: 4 - Creator: CCowgur Status: Pending Approval Date: NA	1 Owner		SUBMIT	2 VP					
Vendor: Deliver to: Request Date: 7/3/2019 Date Needed: 07/03/2019	Current			Next	→ Move Current Step				
Request Notes:	All Steps All I	Process Activity		Status	Details	Days in Step			
	1 Ov	wner		Active	Assigned to Carl Cowgur	219			
	2 VF	5		Not Started	Invalid assignment				

Purchase request screen

You can also view the message stream for the plan file from this page, so that you can view and add comments about the plan file. Click the **Message** icon to open the Message Stream panel. For more information on the message stream, see Commenting on form documents.

Approving purchase requests and entering POs

Use this report to approve purchase requests as well as enter purchase order numbers for tracking.

	Tracking										
lter: NO	DNE										
put ad	ditional filter crit	eria here (ex. CTREQ.OrigBud	getTOT>=500	00)							
ort: (as	c)										
	POTRANS	Project ID	Entity	Department	Project Description	Purchase Request ID	PR Approval	Approval Date	Purchase Req Amount	Current Step Number	Current Step Name
, 0	68	2017.001.19000.001	1	19000	Land Purchase. For New MOB	PR.2017.001.19000.001.001	Pending	NA	0	There is an error	There is an error in XML dc
2 0	69	2017.001.19000.001	1	19000	Land Purchase, For New MOB	PR.2017.001.19000.001.013	Pending	NA			There is an error in XML dc
0	67	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.001	Pending	NA			There is an error in XML dc
7 0	5	2017.001.26310.002	1	26310	Bed, Pediatric Cribs	PR.2017.001.26310.002.001	Approved	1/17/2017			There is an error in XML dc
7 0	6	2017.001.26310.003	1	26310	Ice Machine, Replacement for Dietary	PR.2017.001.26310.003.001	Approved	1/23/2017			There is an error in XML dc
7 0	7	2017.001.26310.005	1	26310	Incubator, Transport Incubator/ Isolette	PR.2017.001.26310.005.001	Approved	7/2/2017			There is an error in XML dc
0	8	2017.001.26350.001	1	26350	Monitor, Telemetry Transmitters	PR.2017.001.26350.001.001	Approved	1/23/2017			There is an error in XML dc
0	9	2017.001.26350.003	1	26350	Bed. CCU Beds	PR.2017.001.26350.003.001	Approved	1/23/2017			There is an error in XML dc
0	10	2017.001.26350.005	1	26350	Oximeter, Portable Pulse Oximeters	PR.2017.001.26350.005.001	Approved	2/21/2017			There is an error in XML dc
0	11	2017.001.26350.007	1	26350	Phototherapy Unit, Bili Soft Photo Therapy	PR.2017.001.26350.007.001	Approved	2/21/2017			There is an error in XML dc
0	12	2017.001.26430.002	1	26430	Incubator, Radiant Warmers	PR.2017.001.26430.002.001	Approved	3/7/2017			There is an error in XML dc
0	13	2017.001.26470.001	1	26470	Fetal Heart Detector, 12 Lead EKG Machine, M	v PR.2017.001.26470.001.001	Approved	3/20/2017			There is an error in XML dc 1
0	14	2017.001.26470.002	1	26470	Other General Medical, Bladder Scanner BVI		Pending	NA			There is an error in XML dc
0	15	2017.001.26470.003	1	26470	Other General Medical, Blanket Warmer	PR.2017.001.26470.003.001	Approved	3/21/2017			There is an error in XML dc 1
0	16	2017.001.26470.005	1	26470	Bed. Patient Beds	PR.2017.001.26470.005.001	Approved	3/21/2017			There is an error in XML dc
0	17	2017.001.26770.004	1	26770	Other General Medical, Prone Breast Board	PR.2017.001.26770.003.001	Approved	4/25/2017			There is an error in XML dc 1
0	18	2017.001.26770.006	1	26770	Other General Medical, Prone Breast Board	PR.2017.001.26770.005.001	Approved	4/26/2017	0	There is an error	There is an error in XML dc
0	19	2017.001.26780.004	1	26780	General Software. Flex Vision Lab 2	PR.2017.001.26780.002.001	Pending	NA	207.740	There is an error	There is an error in XML dc
0	20	2017.001.26780.006	1	26780	Recorder, Cardiolab EP Recorder	PR.2017.001.26780.004.001	Approved	4/28/2017	0	There is an error	There is an error in XML dc
0	21	2017.001.26780.008	1	26780	Stimulator, EP Med Stimulator	PR.2017.001.26780.006.001	Approved	4/29/2017			There is an error in XML dc
0	22	2017.001.26790.002	1	26790	General Software, Electronic Whiteboard Trac	PR.2017.001.26780.008.001	Approved	4/30/2017			There is an error in XML dc
0	23	2017.001.26790.004	1	26790	Monitor, Patient Monitors	PR.2017.001.26790.002.001	Approved	5/1/2017			There is an error in XML dc
0	24	2017.001.26810.001	1	26810	Electrosurgical Unit, Electro Surgical Units	PR.2017.001.26790.004.001	Approved	5/2/2017			There is an error in XML dc
0	25	2017.001.26810.003	1	26810	Other General Medical, Medical Procedural C	PR.2017.001.26810.001.001	Approved	5/3/2017			There is an error in XML dc
0	26	2017.001.26810.005	1	26810	Ventilator, Replacement for 5 North	PR.2017.001.26810.003.001	Approved	5/4/2017	0	There is an error	There is an error in XML dc
7 0	27	2017.001.26810.007	1	26810	Monitor, End Tidal CO2 Monitor	PR.2017.001.26810.005.001	Approved	5/5/2017	0	There is an error	There is an error in XML dc
7 0	28	2017.001.27370.002	1	27370	Ventilator, BIPAP	PR.2017.001.27240.004.001	Approved	5/6/2017			There is an error in XML dc
2 0	29	2017.001.27640.001	1	27640	Table, Ultrafin Stirrup	PR.2017.001.27370.002.001	Approved	5/7/2017			There is an error in XML dc
2 0	30	2017.001.27640.003	1	27640	C-Arm, Replacement for Radiology	PR.2017.001.27640.001.001	Approved	5/8/2017			There is an error in XML dc

NOTE: From this utility, you can also view plan files by double-clicking the folder icon in the column on the left side of the CAPREQ/POTRANS column.

To approve purchase requests and enter POs:

1. In the Cap Track Admin task pane, in the Capital Tracking Reports section, click Approval > Project Request Approval, and double-click Project Request Approval and Assign PO.

Capital Tracking Reports

Project Tracking Reports

Approval

Project Approval

Project Approval

Project Completion and Archive

Project Archive Utility

Project Completion Status

Purchase Request Approval

Retrospective Project Review

- 2. Refresh data by doing one of the following:
 - On the Main ribbon tab, in the Workbook Options group, click Refresh Data.

File	MAIN	HELP ADMI	N Ho	me					
Open App Menus •	? Online Help ▼	Navigation	Save	Refresh Data	Change View •	Drill	Additions	Quick Filter	GoTo
Applications	Help	File Opt	ions			Workboo	ok Options		

- Press F9.
- 3. Do one of the following:

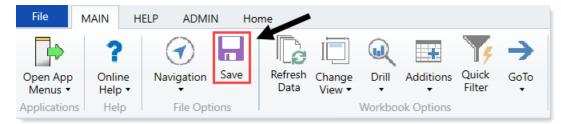
Option	Description
Filter the report to include specific purchase requests	a. In the Refresh Variables dialog, for each option to filter by, click Choose Value.
	 b. In the Choose Value dialog, select the values to include, and click OK. c. In the Refresh Dialog, click OK.
	c. In the Kerresh Dialog, click OK.
Include all purchase requests in the report	In the Refresh Variables dialog, leave the field blank, and click OK .

- 4. In the **PR Approval** column, do one of the following:
 - To approve a PO, select Approve.
 - To reject a PO, select Decline.
 - To set the project as pending, select **Pending**.

KHA H	lealth							
Capita	I Tracking							
ilter: N	IONE							
nput a	dditional filter cr	iteria here (ex. CTREQ.OrigBud	lgetTOT>=500	00)				
Sort: (a	isc)							
	POTRANS	Project ID	Entity	Department	Project Description	Purchase Request ID	PR Approval	Approval Da
20	68	2017.001.19000.001	1	19000	Land Purchase, For New MOB	PR.2017.001.19000.001.001	Pending	NA
2 6	69	2017.001.19000.001	1	19000	Land Purchase, For New MOB	PR.2017.001.19000.001.013	Pending	NA
2 6	67	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.001	Approved	10/23/201
2 6	5	2017.001.26310.002	1	26310	Bed, Pediatric Cribs	PR.2017.001.26310.002.001	Approved	1/17/2017
2 6	6	2017.001.26310.003	1	26310	Ice Machine, Replacement for Dietary	PR.2017.001.26310.003.001	Approved	1/23/2017
2 6	7	2017.001.26310.005	1	26310	Incubator, Transport Incubator/ Isolette	PR.2017.001.26310.005.001	Pending	7/2/2017
> 6	8 (2017.001.26350.001	1	26350	Monitor, Telemetry Transmitters	PR.2017.001.26350.001.001	Declined	1/23/2017
3 6	9 9	2017.001.26350.003	1	26350	Bed, CCU Beds	PR.2017.001.26350.003.001	Approved	1/23/201

NOTE: The system automatically updates the **Approval Date** column when you make a change in the **PR Approval** field.

- 5. In the Assign PO column, type a PO for tracking purposes.
- 6. In the Status Comments column, type comments to explain the status of the PO.
- 7. After you finish making changes, in the Main ribbon tab, click Save.



8. At the confirmation prompt, click **OK**.

Working with Reports

Reports are spreadsheets designed to help review and analyze your organization's financial data. Axiom Capital Tracking reports include the following report types:

- **Project Tracking** Used to view capital project details. For more information, see Tracking Capital Projects.
- Approval Used to view the approval status of capital projects and purchase requests.
- Retrospective Project Review Used to view retrospective statuses and updates.

Reports pull data from the database and in some cases allow the user to input data and save it back to the database. However, unlike plan files, reports are not associated with a particular file group or capital budget year. The same report can be used to view data for any capital budget year, or to compare data across multiple budget years. Reports can even incorporate data from other Axiom Healthcare Suite products, provided you have the necessary security permissions.

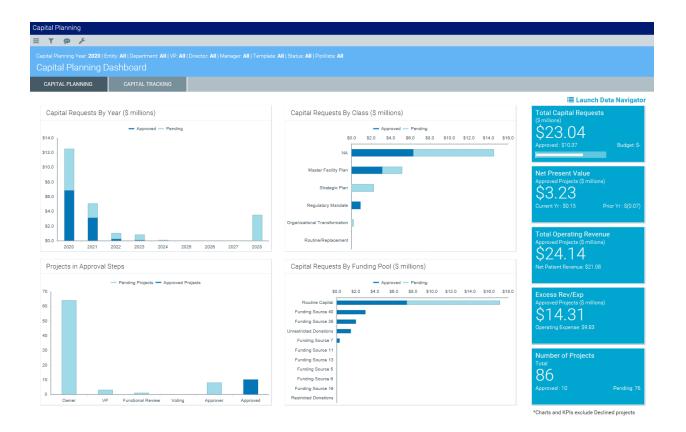
Working with the Capital Dashboard

The Capital Dashboard provides multiple views, filters, and deep dive capabilities you can use to do the following:

Capital Planning - View capital requests, workflow status, and approval summaries for your organization.

Capital Tracking - View capital budget vs. committed vs. actuals as well as workflow status.

NOTE: The tabs that display depends on the Axiom license purchased by your organization. For example, if you do not have a license for Axiom Capital Tracking, then that tab will not display.



Capital Planning

The Capital Planning tab provides a summary and analysis of you capital planning process for each file group planning year. The dashboard charts shows the capital requests by year, class, and funding pool as well as the number of pending projects and where they are in the approval process.

The dashboard also shows KPIs regarding:

- Total number of capital request dollars, including how much has been approved and budgeted
- Net present value (NPV) of approved projects, including current and prior year dollars
- Total operating revenue of approved projects, including net patient revenue
- Excess revenue and expenses of approved projects, including operating expenses
- Total number of projects, including the number of approved and pending projects

NOTE: The charts and KPIs do not include declined projects.

You can filter data in the report using the Refresh Variables in the Filters panel. You can also dive deeper into the data and configure how the data displays by using the Data Navigator.

Capital Tracking

The Capital Tracking tab provides a summary and analysis of your capital requests. The dashboard charts shows the capital requests by year, the number of pending projects and where they are in the approval process, and actual vs. committed vs. budget projects.

The dashboard also shows KPIs regarding:

- Total number of capital request dollars, including how much has been approved and budgeted
- Net present value (NPV) of approved projects
- Total operating revenue of approved projects, including operating expenses and net income
- The amount of committed dollars across projects, including actual and dollar variance
- Total number of projects, including the number of approved and pending projects

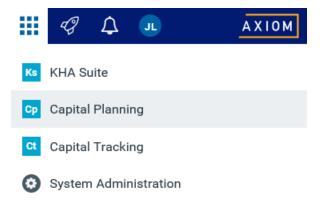
NOTE: The charts and KPIs do not include declined projects.

You can filter data in the report using the refresh variables in the Filters panel. You can also dive deeper into the data behind the charts and KPIs by using the Data Navigator.

Using the Capital Dashboard

To use the Capital Dashboard:

1. Click the Area menu in the Global Navigation Bar, and click **Capital Planning**.



- 2. From the home page, click Launch Capital Dashboard.
- 3. To filter the data in the dashboard, click the funnel icon in the upper left corner of the screen.



4. In the **Filters** panel, configure the variables by selecting the filter options to use, and then click **Apply**.

TIP: To keep the Filters panel open, click the thumb tack icon in the upper right corner of the panel.

5. To deep dive into the data included in the report, click Launch Data Navigator.

Capital Planning Year: 2020 Entity All Department: All VP: All Director: All Manager: All Template Capital Planning Dashboard		
CAPITAL PLANNING CAPITAL TRACKING		
		🗮 Launch Data Navigator
Capital Requests By Year (\$ millions)	Capital Requests By Class (\$ millions)	Total Capital Requests (\$ millions)
- Approved - Pending \$14.0 \$12.0	Approved — Pending \$0.0 \$2.0 \$4.0 \$6.0 \$8.0 \$10.0 \$12.0 \$14.0 \$16.0 NA	\$23.04 Approved : \$10.37 Budget: \$-
\$10.0 \$8.0 \$6.0	Master Facility Plan	Net Present Value Approved Projects (\$ millions) \$3.23 Current Yr : \$3.23 Prior Yr : \$0.15
	Organizational Transformation	

- 6. From the Data Navigator, do any of the following:
 - a. Click the drop-down to view data by the following: Operational Impact Summary, Project Summary by Dept, Project Summary by VP.

NOTE: Depending on the selection you make from this drop-down, the columns and hierarchical order will change.

- b. Click the header to organize the column in ascending or descending order.
- c. Click the funnel icon to filter the data in the column.

d.	Export the information	from the Data Navigator to Excel.
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												📥 Export to Exe	
Operational Imp	act Summary 🔻	а					d 🛎 Exp						
			тоти	AL.					202)			
Status 🕇 🔥	Capital Costs	FTE Impact	NPV	Revenue	Expenses	Excess Rev/Exp	Capital Costs	FTE Impact	NPV	Revenue	Expenses	Excess Rev/Exp	
Approved	C \$10,368,328	266.0	\$3,226,160	\$24,140,065	\$9,833,658	\$14,306,407	\$6,849,585	25.0	\$0	\$24,140,065	\$9,833,658	\$14,306,407	
Entity 1	T Capital Costs	FTE Impact	NPV	Revenue	Expenses	Excess Rev/Exp	Capital Costs	FTE Impact	NPV	Revenue	Expenses	Excess Rev/Exp	
 KH Health System 	n 🖑 \$4,357,455	63.0	(\$319,454)	\$1,792,719	\$684,890	\$1,107,829	\$915,500	0.0	\$0	\$1,792,719	\$684,890	\$1,107,829	
 KH Medical Cent 	er \$983,373	18.0	(\$1,038,276)	\$6,142,717	\$4,948,993	\$1,193,724	\$906,585	0.0	\$0	\$6,142,717	\$4,948,993	\$1,193,724	
 KH Physician Gro 	sup \$5,000,000	185.0	\$4,611,390	\$16,204,629	\$4,147,524	\$12,057,105	\$5,000,000	25.0	\$0	\$16,204,629	\$4,147,524	\$12,057,105	
Unassigned/Not Applicable	\$27,500	0.0	(\$27,500)	\$0	\$52,250	(\$52,250)	\$27,500	0.0	\$0	\$0	\$52,250	(\$52,250)	
Pending	\$12,669,019	50.0	(\$23,932,974)	\$26,279,974	\$81,925,498	(\$55,645,524)	\$5,676,426	5.0	\$272,091	\$26,279,974	\$81,925,498	(\$55,645,524)	
Entity 1	Capital Costs	FTE Impact	NPV	Revenue	Expenses	Excess Rev/Exp	Capital Costs	FTE Impact	NPV	Revenue	Expenses	Excess Rev/Exp	
 KH Health System 	n \$8,567,903	50.0	(\$1,639,827)	\$15,016,434	\$78,220,731	(\$63,204,297)	\$2,260,051	5.0	\$272,091	\$15,016,434	\$78,220,731	(\$63,204,297)	
 KH Medical Cent 	er \$2,614,303	0.0	(\$2,006,214)	\$44,441	\$2,668,480	(\$2,624,039)	\$2,553,743	0.0	\$0	\$44,441	\$2,668,480	(\$2,624,039)	
 KH Physician Gro 	sup \$603,616	0.0	(\$420,603)	\$0	\$3,126	(\$3,126)	\$203,616	0.0	\$0	\$0	\$3,126	(\$3,126)	
Unassigned/Not Applicable	\$883,196	0.0	(\$19,866,329)	\$11,219,098	\$1,033,161	\$10,185,937	\$659,016	0.0	\$0	\$11,219,098	\$1,033,161	\$10,185,937	
Total	\$23,037,347	316.0	(\$20,706,814)	\$50,420,039	\$91,759,155	(\$41,339,117)	\$12,526,011	30.0	\$272,091	\$50,420,039	\$91,759,155	(\$41,339,117)	

Reports included in Axiom Capital Tracking

You have access to a number of standard capital tracking reports upon system delivery. You can access these reports in the Cap Track and Cap Track Admin task panes in the Capital Tracking Reports section.

Axiom Capital Tracking includes the following reports. These reports are available in a web-based or spreadsheet version.

- To run, save, and print any of the reports listed below as a web report, see Running a web report
- To run these reports as an Excel spreadsheet, including refreshing data, printing, and so on, see Working with spreadsheet reports
- Capital Account Balances

Use this report to view a summary of actual dollars spent by capital account.

Capital Account Balances

KHA Health | Capital Tracking

Total		3,800,280				
Acct	Account Description	Ending Balance				
0	Unassigned/Not Applicable	0				
17000	Land	455,000				
17300	Buildings	2,813,500				
17600	Equipment	375,000				
17615	HIPPA Compliance	156,780				

Capital Snapshot by Class

Use this report to view a tracking summary of capital projects by capital Class.

A

Capital Snapshot KHA Health | Capital Tracking

GRAND TOTALS BY YEAR - ALL CLASSES	24,401,000	-24,401,000	0	24,401,000	24,401,000	0	659,868	4,462,531
YR2017	0	0	0	0	0	0	659,868	4,462,531
YR2018	24,401,000	-24,401,000	0	24,401,000	24,401,000	0	0	0
	Original	Budget		Adjusted	Remaining	Funding	Purchase	
Class	Budget	Exceptions	Transfers	Budget	Authorization	Authorization	Requests	Committed
CLASS TOTALS BY YEAR								
ROUTINE/REPLACEMENT	4,105,000	(4,105,000)	(1,000,000)	3,105,000	3,105,000	0	22,000	20,000
YR2017	0	0	(1,000,000)	(1,000,000)	(1,000,000)	0	22,000	20,000
YR2018	4,105,000	(4,105,000)	0	4,105,000	4,105,000	0	0	0
STRATEGIC PLAN	1,951,000	(1,951,000)	1,000,000	2,951,000	2,951,000	0	30,550	212,500
YR2017	0	0	1,000,000	1,000,000	1,000,000	0	30,550	212,500
YR2018	1,951,000	(1,951,000)	0	1,951,000	1,951,000	0	0	0
MASTER FACILITY PLAN	14,250,000	(14,250,000)	0	14,250,000	14,250,000	0	603,318	3,477,070
YR2017	0	0	0	0	0	0	603,318	3,477,070
YR2018	14,250,000	(14,250,000)	0	14,250,000	14,250,000	0	0	0
REGULATORY MANDATE	1,000,000	(1,000,000)	0	1,000,000	1,000,000	0	0	0
YR2018	1,000,000	(1,000,000)	0	1,000,000	1,000,000	0	0	0
ORGANIZATIONAL TRANSFORMATION	800,000	(800,000)	0	800,000	800,000	0	4,000	752,961
YR2017	0	0	0	0	0	0	4,000	752,961
YR2018	800,000	(800,000)	0	800,000	800,000	0	0	0
CEO PRIORITY	1,755,000	(1,755,000)	0	1,755,000	1,755,000	0	0	0
YR2018	1,755,000	(1,755,000)	0	1,755,000	1,755,000	0	0	0

Capital Tracking PO Reconcile

Use this report to view the purchase order requests for your organization.

OT/	AL.									51,545,313	(51,545,313)
		CAPREQ / POTRANS	Project ID	PO	Entity	Department	Project Description / Transaction Notes	GLPERIOD	Status	Original Budget	Budget Exceptions
B	0	124	2017.001.19000.001		1	19000	Land Purchase, For New MOB		Approved	0	0
B	0	120	KH_Contingency		1	19000	Contingency, Main Campus Contingency Pool		Pending	4,105,000	(4,105,000)
B	0	53		NA			Bin Storage System	201704	Pending		
				NonCommitted Actual							
2 2 2 2	0 0 0	15	2017.001.19150.001 2017.001.26310.001 2017.001.26310.002		1 1 1	19150 26310 26310	General Software, ICU Software Monitor, Transport Monitor for Patient Sedations Bed, Pediatric Cribs		Approved Pending Approved	1,600,000 20,000 32,000	(1,600,000) (20,000) (32,000)
в	0	5		7057			Pediatric Cribs	201701	Approved		
B	0	17	2017.001.26310.003		1	26310	Ice Machine, Replacement for Dietary		Approved	4,000	(4,000)
6	0	6		7052			Ice Machine	201701	Approved		
6 6	0		2017.001.26310.004 2017.001.26310.005		1	26310 26310	Incubator, Isolette/ Incubator Incubator, Transport Incubator/ Isolette		Pending Approved	38,920 120,000	(38,920) (120,000)
B	0	7		7265			Transport Incubator/ Isolette	201706	Approved		
2 2	0 0		2017.001.26310.006 2017.001.26350.001		1 1	26310 26350	Other General Medical, Whole Body Cooling Device Monitor, Telemetry Transmitters		Pending Approved	4,800 15,800	(4,800) (15,800)
B	0	8		7037			Telemetry Transmitters	201701	Approved		
6 6	0		2017.001.26350.002 2017.001.26350.003		1 1	26350 26350	Monitor, End Tidal CO2 monitoring Bed, CCU Beds		Pending Approved	17,500 79,695	(17,500) (79,695)
B	0	9		7038			CCU Beds	201701	Approved		
6 6	0		2017.001.26350.004 2017.001.26350.005		1	26350 26350	Monitor, Dash 3000 Portable Monitor Oximeter, Portable Pulse Oximeters		Pending Approved	15,000 7,500	(15,000) (7,500)
B	0	10		6433			Portable Pulse Oximeters	201701	Approved		
2 2	0		2017.001.26350.006 2017.001.26350.007		1 1	26350 26350	Other Engineering / Facilities, Flooring Phototherapy Unit, Bili Soft Photo Therapy		Pending Approved	20,000 8,000	(20,000) (8,000)
Э	0	11		6464			Bili Soft Photo Therapy	201701	Approved		
2 2	0		2017.001.26430.001 2017.001.26430.002		1 1	26430 26430	General Furniture, Glider/ Rocker Chairs Incubator, Radiant Warmers		Pending Approved	10,200 26,000	(10,200) (26,000)
⊵	0	12		10275			Radiant Warmers	201702	Approved		
⊜	0		2017.001.26440.001		1	26440	Bassinet, Replacement for Peds		Pending	62,700	(62,700)
0											

Carry Forward Cash Uses

Use this report to view a summary of capital carryforward dollars by year for approved capital projects.

CarryForward Cash Uses KHA Health | Capital Tracking

Total		38,670,313	3,670,313 (38,670,313)		38,670,313	4,462,531	1 3,800,280	34,207,782	34,870,033
FY	Description	Original Budget	Budget Exceptions	Transfers	Adjusted Budget	Committed	Actual	Carryforward Capital (vs. Committed)	Carryforward Capital (vs. Actual)
2018	Current Year Activity	38,670,313	(38,670,313)	0	38,670,313	0	0	38,670,313	38,670,313
2017	Last Year Activity	0		0	0	4,462,531	3,800,280	(4,462,531)	(3,800,280)
CY Carryforw	ard Capital (Adjusted Budget less Com	nmitments)		38,670,313					
CY Carryforw	ard Capital (Adjusted Budget less Actu	38,670,313							
CY Committe	d but Not Spent	0							

Executive Summary

Use this report to create an executive summary for capital projects one request at a time.

Other Respiratory Therapy, Hyperbaric Oxygen Chamber: Overview

KHA Health 2019 Capital Planning Process									
OVERVIEW BUSIN	NESS PLAN								
Total Requested: \$1,010,800 2019 Requested: \$1,010,800	Creator: Sarah Falkner VP: Sarah Falkner	Department EMA Dental (102002)							
Key Numbers									
Net present Value at 10%	894,928								
Return Efficiency	89.0%								
1st Year of Positive cashflow	2019								
Internal Rate of Return (IRR)	24.00%								
Payback	4.2								
Project Details									
Long Description:									
Project Justification:	HBO is defined as the	administration of oxygen at pressures greater than one atmosphere absolute (ATA).							
Class:	CEO Priority								

Executive Summary with Financial Statement

Use this report to create an executive summary with detailed financial statements for individual capital projects.

NOTE: This is the only report not available in a web version.

Master Facility Plan, New Cancer Center

Creator: System Administrator		VP: Sally Klein	Department: EMC O/P Oncology	(26480)
2018 Capital: \$3,150,000		ProjectID: 2018.002.26480.001	Total Capital: \$11,125,000	
Net Present Value @ 10%	Return Efficiency	1st Year of Positive Cash Flow	Internal Rate of Return (IRR)	Payback
\$1,323,327	11.9%	2027	13.2%	9.8
		Project Details		
Long Description	New Cancer Ceenter that will be on	he east side of the city		
Project Justification	St. Mary's has expanded their cance competitive while jumping on the opp	er services over the last 3 years, and w ortunity to increase market share.	re need a new facility to remain	

Project by Vendor

Use this report to view a summary of committed and actual dollar amounts by vendor.

	t by Ven								Select Vendor	•
Arreatur	n capital frac	aking								
otal Ven	idors					4,462,531	3,800,280	662,251		
	CAPREQ	Project ID	Entity	Department	Description	P0 Amount	Invoice Amount	Unpaid PO Balance		
A										
e 0	124	2017.001.19000.001	1	19000	Land Purchase, For New MOB	0	0	0		
6 10	2	2017.002.26480.001	2	26480	Master Facility Plan, New Cancer Center	2,512,569	2,041,780	470,789		
					Total NA	2,512,569	2,041,780	470,789		
BD - Vendor	r To Be Determir	ned								
80	25	2017.001.26350.005	1	26350	Oximeter, Portable Pulse Oximeters	7,500	7,500	0		
e 0	29	2017.001.26430.002	1	26430	Incubator, Radiant Warmers	26,000	26,000	0		
0 0	32	2017.001.26470.002	1	26470	Other General Medical, Bladder Scanner BVI 9400	0	0	0		
6 Ø	33	2017.001.26470.003	1	26470	Other General Medical, Blanket Warmer	35,400	35,400	0		
6 Ø	42	2017.001.26770.005	1	26770	Ultrasound Therapy Unit, Tip Confirmation System	20,000	20,000	0		
0 0	53	2017.001.26790.002	1	26790	General Software, Electronic Whiteboard Tracking	34,000	34,000	0		
e 0	61	2017.001.26810.005	1	26810	Ventilator, Replacement for 5 North	141,651	141,651	0		
0 0	78	2017.001.27640.001	1	27640	Table, Ultrafin Stirrup	9,000	9,000	0		
6 Ø	80	2017.001.27640.003	1	27640	C-Arm, Replacement for Radiology	150,000	150,000	0		
⊳ ø	82	2017.001.27640.005	1	27640	Other Surgery, Bookwalter System	19,183	19,183	0		
0 0	86	2017.001.27640.009	1	27640	Traction Unit, Steris Tensor CF Traction Unit	6,278	0	6,278		
0 1	88	2017.001.27640.011	1	27640	General Furniture, Pediatric Chair	0	0	0		
6 Ø	90	2017.001.29000.002	1	29000	Other Engineering / Facilities, Replace Roof	180,000	180,000	0		
0 1	92	2017.001.29000.004	1	29000	Washer, Washer/Dryer	2,500	2,500	0		
6 0	94	2017.001.29000.006	1	29000	Television Set, Sharp Aquos 60 Inch TV	1,800	1,800	0		
> 0	96	2017.001.29120.002	1	29120	Scanner, Patient Records	5,000	5,000	0		
0 1	98	2017.001.29120.004	1	29120	Other Engineering / Facilities, Catalyst Enhancement	50,000	50,000	0		
> 0	100	2017.001.29120.006	1	29120	Other Miscellaneous, Booklet maker and Face Trimmer	22,198	22,198	0		
6 6	102	2017.001.29210.001	1	29210	Other Engineering / Facilities, Elevator Modernization	300,000	300,000	0		
6 0	104	2017.001.29310.001	1	29310	Other Engineering / Facilities, OR/Recovery Room Doors	17,000	0	17,000		
6 Ø	106	2017.001.29310.003	1	29310	General Renovation, Endo Remodel	20,000	20,000	0		

Project Data by Year

Use this report to view capital project tracking details for single transaction types, such as budget amounts, committed amounts, actual amounts, and so on.

Adjusted Budget Amounts by Year KHA Health | Capital Tracking

	TOTAL					38,670,313	
	CAPREQ	Project ID	Entity	Department	Project Description	2018 Adjusted Budget	
⊳ ⊘	124	2017.001.19000.001	1	19000	Land Purchase, For New MOB	0	
60	120	KH_Contingency	1	19000	Contingency, Main Campus Contingency Pool	4,105,000	
60	7	2017.001.19150.001	1	19150	General Software, ICU Software	800,000	
6	15	2017.001.26310.001	1	26310	Monitor, Transport Monitor for Patient Sedations	20,000	
6	16	2017.001.26310.002	1	26310	Bed, Pediatric Cribs	32,000	
6	17	2017.001.26310.003	1	26310	Ice Machine, Replacement for Dietary	4,000	
6	18	2017.001.26310.004	1	26310	Incubator, Isolette/ Incubator	38,920	
6	19	2017.001.26310.005	1	26310	Incubator, Transport Incubator/ Isolette	120,000	
6	20	2017.001.26310.006	1	26310	Other General Medical, Whole Body Cooling Device	4,800	
6	21	2017.001.26350.001	1	26350	Monitor, Telemetry Transmitters	15,800	
6	22	2017.001.26350.002	1	26350	Monitor, End Tidal CO2 monitoring	17,500	
6	23	2017.001.26350.003	1	26350	Bed, CCU Beds	79,695	
6	24	2017.001.26350.004	1	26350	Monitor, Dash 3000 Portable Monitor	15,000	
6	25	2017.001.26350.005	1	26350	Oximeter, Portable Pulse Oximeters	7,500	
6	26	2017.001.26350.006	1	26350	Other Engineering / Facilities, Flooring	20,000	
6	27	2017.001.26350.007	1	26350	Phototherapy Unit, Bili Soft Photo Therapy	8,000	
6	28	2017.001.26430.001	1	26430	General Furniture, Glider/ Rocker Chairs	10,200	
6	29	2017.001.26430.002	1	26430	Incubator, Radiant Warmers	26,000	
60	30	2017.001.26440.001	1	26440	Bassinet, Replacement for Peds	62,700	
6	31	2017.001.26470.001	1	26470	Fetal Heart Detector, 12 Lead EKG Machine, MAC 5500	15,000	
6	32	2017.001.26470.002	1	26470	Other General Medical, Bladder Scanner BVI 9400	18,000	

Project Dollars by Year

Use this report to view a summary of capital dollars requested by year for a selection of capital projects.

Project Dollars by Year KHA Health | Capital Tracking

TOTAL						(3,211,683)	(6.1%)				52,679,56
	CAPREQ	Entity	Department	Project ID	Project Description	NPV	Return Efficiency	1st Year Positive Cash Flow	IRR	Payback	Total Requested
6 0	124	1	19000	2017.001.19000.001	Land Purchase, For New MOB	(1,000,000)	(100.0%)	NA	0.0%	0.0	1,000,00
6 0	120	1	19000	KH_Contingency	Contingency, Main Campus Contingency Pool	(4,105,000)	(100.0%)	NA	0.0%	0.0	4,105,00
60	7	1	19150	2017.001.19150.001	General Software, ICU Software	(4,540,127)	(284.0%)	NA	0.0%	0.0	1,600,00
6 0	15	1	26310	2017.001.26310.001	Monitor, Transport Monitor for Patient Sedations	(20,000)	(100.0%)	NA	0.0%	0.0	20,00
60	16	1	26310	2017.001.26310.002	Bed, Pediatric Cribs	(32,000)	(100.0%)	NA	0.0%	0.0	32,00
6 0	17	1	26310	2017.001.26310.003	Ice Machine, Replacement for Dietary	(4,000)	(100.0%)	NA	0.0%	0.0	4,00
6 0	18	1	26310	2017.001.26310.004	Incubator, Isolette/ Incubator	(38,920)	(100.0%)	NA	0.0%	0.0	38,92
6 0	19	1	26310	2017.001.26310.005	Incubator, Transport Incubator/ Isolette	(120,000)	(100.0%)	NA	0.0%	0.0	120,00
6 0	20	1	26310	2017.001.26310.006	Other General Medical, Whole Body Cooling Device	(4,800)	(100.0%)	NA	0.0%	0.0	4,80
0 0	21	1	26350	2017.001.26350.001	Monitor, Telemetry Transmitters	(15,800)	(100.0%)	NA	0.0%	0.0	15,80
6 0	22	1	26350	2017.001.26350.002	Monitor, End Tidal CO2 monitoring	(17,500)	(100.0%)	NA	0.0%	0.0	17,50
6 0	23	1	26350	2017.001.26350.003	Bed, CCU Beds	(74,400)	(100.0%)	NA	0.0%	0.0	79,69
6 0	24	1	26350	2017.001.26350.004	Monitor, Dash 3000 Portable Monitor	(15,000)	(100.0%)	NA	0.0%	0.0	15,00
6 0	25	1	26350	2017.001.26350.005	Oximeter, Portable Pulse Oximeters	(7,500)	(100.0%)	NA	0.0%	0.0	7,50
6 0	26	1	26350	2017.001.26350.006	Other Engineering / Facilities, Flooring	(20,000)	(100.0%)	NA	0.0%	0.0	20,00
6 0	27	1	26350	2017.001.26350.007	Phototherapy Unit, Bili Soft Photo Therapy	(8,000)	(100.0%)	NA	0.0%	0.0	8,00
0 1	28	1	26430	2017.001.26430.001	General Furniture, Glider/ Rocker Chairs	(10,200)	(100.0%)	NA	0.0%	0.0	10,20
6 0	29	1	26430	2017.001.26430.002	Incubator, Radiant Warmers	(26,000)	(100.0%)	NA	0.0%	0.0	26,00
0 1	30	1	26440	2017.001.26440.001	Bassinet, Replacement for Peds	(62,700)	(100.0%)	NA	0.0%	0.0	62,70
6 0	31	1	26470	2017.001.26470.001	Fetal Heart Detector, 12 Lead EKG Machine, MAC 5500	(15,000)	(100.0%)	NA	0.0%	0.0	15,00
6 0	32	1	26470	2017.001.26470.002	Other General Medical, Bladder Scanner BVI 9400	(18,000)	(100.0%)	NA	0.0%	0.0	18,00
6 0	33	1	26470	2017.001.26470.003	Other General Medical, Blanket Warmer	(35,400)	(300.0%)	NA	0.0%	0.0	35,40
⊳ ⊘	34	1	26470	2017.001.26470.004	Monitor, Tele Transmitters	(45,000)	(100.0%)	NA	0.0%	0.0	45,00
60	35	1	26470	2017.001.26470.005	Bed, Patient Beds	(74,400)	(100.0%)	NA	0.0%	0.0	74,40

Project Tracking

Use to view capital project tracking detail by month.

Project Tracking KHA Health | Capital Tracking

GRAND	TOTAL ALL	YEARS					659,868	4,462,531
Period	CAPREQ	Project ID	Entity	Department	Description	TransactionID	Purchase Requests	Committed PO
201701								
	21	2017.001.26350.001	1	26350	Monitor, Telemetry Transmitters	IN.2017.001.26350.001.001	0	0 7037
	23	2017.001.26350.003	1	26350	Bed, CCU Beds	IN.2017.001.26350.003.001	0	0 7038
60	21	2017.001.26350.001	1	26350	Monitor, Telemetry Transmitters	PR.2017.001.26350.001.001.001	0	15,800 7037
⊜ ⊘	23	2017.001.26350.003	1	26350	Bed, CCU Beds	PR.2017.001.26350.003.001.001	0	74,400 7038
	16	2017.001.26310.002	1	26310	Bed, Pediatric Cribs	IN.2017.001.26310.002.001	0	0 7057
	17	2017.001.26310.003	1	26310	Ice Machine, Replacement for Dietary	IN.2017.001.26310.003.001	0	0 7052
6 0	16	2017.001.26310.002	1	26310	Bed, Pediatric Cribs	PR.2017.001.26310.002.001.001	0	32,000 7057
6 0	17	2017.001.26310.003	1	26310	Ice Machine, Replacement for Dietary	PR.2017.001.26310.003.001.001	0	4,000 7052
6 0	14	2017.002.26140.003	2	26140	Monitor, Vital Signs Monitors	PR.2017.002.26140.003.001.001	22,000	0
						Total for period 201701	22,000	126,200
201702								
	2	2017.002.26480.001	2	26480	Master Facility Plan, New Cancer Center	IN.2017.002.26480.001.001	0	0 5916
	2	2017.002.26480.001	2	26480	Master Facility Plan, New Cancer Center	JE.2017.002.26480.001.001	0	0 NA
₽ 40	2	2017.002.26480.001	2	26480	Master Facility Plan, New Cancer Center	PR.2017.002.26480.001.001.001	0	1,000,000 5916
ප එ	2	2017.002.26480.001	2	26480	Master Facility Plan, New Cancer Center	PR.2017.002.26480.001.005.001	0	185,000 5930
64	2	2017.002.26480.001	2	26480	Master Facility Plan, New Cancer Center	PR.2017.002.26480.001.009.001	150,000	0 NA
	25	2017.001.26350.005	1	26350	Oximeter, Portable Pulse Oximeters	IN.2017.001.26350.005.001	0	0 6433
	27	2017.001.26350.007	1	26350	Phototherapy Unit, Bili Soft Photo Therapy	IN.2017.001.26350.007.001	0	0 6464
60	25	2017.001.26350.005	1	26350	Oximeter, Portable Pulse Oximeters	PR.2017.001.26350.005.001.001	0	7,500 6433
6 0	27	2017.001.26350.007	1	26350	Phototherapy Unit, Bili Soft Photo Therapy	PR.2017.001.26350.007.001.001	0	8,000 6464
						Total for period 201702	150,000	1,200,500

Purchase Request Status

Use to view a summary of purchase request details and status.

Purchase Request Status

KHA Health | Capital Tracking

TOTAL										17,484,574
	CAPREQ / Project ID POTRANS	Purchase Request ID	Entity	Department	Project Description / Transaction Notes	Status	Current Step	Current Owner	Days in Step	Original Budget
6 0	124 2017.001.19000.001		1	19000	Land Purchase, For New MOB	Approved				0 🔺
6	120 KH_Contingency		1	19000	Contingency, Main Campus Contingency Pool	Pending				4,105,000
6	53	PR.2017.001.29320.011.00			Bin Storage System	Pending	There is an error i	There is an error i	#VALUE!	
6 0	16 2017.001.26310.002		1	26310	Bed, Pediatric Cribs	Approved				32,000
🖻 🖉	5	PR.2017.001.26310.002.00			Pediatric Cribs	Approved	There is an error i	There is an error i	#VALUE!	
🗁 📀	17 2017.001.26310.003		1	26310	Ice Machine, Replacement for Dietary	Approved				4,000
6	6	PR.2017.001.26310.003.00			Ice Machine	Approved	There is an error i	There is an error i	#VALUE!	
6 0	19 2017.001.26310.005		1	26310	Incubator, Transport Incubator/ Isolette	Approved				120,000
6	7	PR.2017.001.26310.005.00			Transport Incubator/ Isolette	Approved	There is an error i	r There is an error i	#VALUE!	
6	21 2017.001.26350.001		1	26350	Monitor, Telemetry Transmitters	Approved				15,800
🗁 🥥	8	PR.2017.001.26350.001.00			Telemetry Transmitters	Approved	There is an error i	There is an error i	#VALUE!	
🗁 📀	23 2017.001.26350.003		1	26350	Bed, CCU Beds	Approved				79,695
6	9	PR.2017.001.26350.003.00			CCU Beds	Approved	There is an error i	There is an error i	#VALUE!	
6	25 2017.001.26350.005		1	26350	Oximeter, Portable Pulse Oximeters	Approved				7,500
6	10	PR.2017.001.26350.005.00			Portable Pulse Oximeters	Approved	There is an error i	There is an error i	#VALUE!	
6 0	27 2017.001.26350.007		1	26350	Phototherapy Unit, Bili Soft Photo Therapy	Approved				8,000
🖻 🖉	11	PR.2017.001.26350.007.00			Bili Soft Photo Therapy	Approved	There is an error i	There is an error i	#VALUE!	
⊳ ⊘	29 2017.001.26430.002		1	26430	Incubator, Radiant Warmers	Approved				26,000
🖻 Ø	12	PR.2017.001.26430.002.00			Radiant Warmers	Approved	There is an error i	There is an error i	#VALUE!	
6	31 2017.001.26470.001		1	26470	Fetal Heart Detector, 12 Lead EKG Machine, MAC 5500	Approved				15,000

Approval reports

There are several reports available to help you manage and track the approval process for capital project requests and purchase requests.

Axiom Capital Tracking includes the following reports. For more information on running these reports, see Working with spreadsheet reports

Project Approval

Use this report to approve capital projects based on a capital constraint. For more information, see Approve or decline projects (page 1).

NOTE: This report is typically used with Non-Threshold projects, but you can also use it with Threshold projects.

17 404 574

KHA H 2019 C	ealth Capital Pla	anning Proc		ate 02''Template 03')	Target Variance To Target:	Current Yr. 7,500,000 848,558	Total Cost				
						,					
nput ad	ditional filt	ter criteria he	re (ex. CPREQ20xx.Ori	iqBudgetTOT>=5000)	Total All Requests:	15,301,666	15,301,666				
					Total Pending:	1,925,299	1,925,299				
sort: Ent	tity;DEPT;D	escription (as	(C)		Total Approved: Total Declined:	6,651,442 6,724,924	6,651,442 6,724,924				
	CAPREQ	Entity	Department	Description	Approval Status	2019 Requested	Approval Comments	Current Step Number	Current Step Name	Matrix Score	Manager Rank
								Number		Score	-
0		1	18987	Fluid Dispensing System	Pending	0		1	Owner		
0		1	26310	Bed, Neonatal Crib	Pending	2,900		3	Functional Review	30	10
0		1	26310	Bed, Pediatric Cribs	Approved	32,000		5	Approver	25	2
0		1	26310	General Furniture, Patient Chairs	Declined	12,000		1	Owner	15	6
0		1	26310	General Furniture, Recliner Sleeper Chair	Declined	5,000		1	Owner	45	7
0		1	26310	Ice Machine, Replacement for Dietary	Approved	4,000		5	Approver	25	5
0		1	26310	Incubator, Isolette	Approved	38,920		5	Approver	50	9
0		1	26310	Incubator, Transport Incubator/ Isolette	Approved	120,000		5	Approver	20	12
0		1	26310	Monitor, Dinamap	Declined	16,600		3	Functional Review	60	8
0		1	26310	Monitor, EMU Units	Declined	40,000		2	VP	45	3
0		1	26310	Monitor, Transport Monitor for Patient Sedations	Approved	20,000		5	Approver	50	1
0		1	26310	Other General Medical, Bladder Scanner	Declined	14,557		3	Functional Review	35	4
0		1	26310	Other General Medical, GE Shuttle	Pending	20,000		3	Functional Review	25	14
0		1	26310	Other General Medical, Phototherapy Blanket	Declined	4,000		3	Functional Review	30	11
0		1	26310	Other General Medical, Whole Body Cooling Device	Approved	4,800		5	Approver	60	13
0		1	26350	Capnograph, SenTec Cutaneous Capnography	Declined	32,000		1	Owner	35	7
0		1	26350	General Furniture, Recliner/ Rocker Chairs	Declined	5,400		3	Functional Review	50	12
0		1	26350	Incubator, Giraffe Warmer	Declined	40,000		3	Functional Review	25	11
0		1	26350	Monitor, Dash 3000 Portable Monitor	Approved	15,000		5	Approver	60	6
00		1	26350	Monitor, End Tidal CO2 monitoring	Approved	17,500		5	Approver	35	4
0		1	26350	Monitor, Telemetry Transmitters	Approved	15,800		5	Approver	60	3
00		1	26350	Monitor, Transport monitor	Declined	42,000		2	VP	25	2
0		1	26350	Other Engineering / Facilities, Flooring	Approved	20,000		5	Approver	25	9
00		1	26350	Other General Medical, Hemacron machine	Declined	12,000		3	Functional Review	25	1
0		1	26350	Oximeter, Portable Pulse Oximeters	Approved	7,500		5	Approver	25	8
0		1	26350	Phototherapy Unit, Bili Soft Photo Therapy	Approved	8,000		5	Approver	25	10
0		1	26430	Bed, Delivery Beds	Declined	35,976		2	VP	50	4
00		1	26430	General Furniture, Glider/ Rocker Chairs	Approved	10,200		5	Approver	25	1
0	53	1	26430	Incubator, Radiant Warmers	Approved	26,000		5	Approver	45	6

Project Archive Utility

Use this report to update the Archive status for capital projects. For more information, see Archiving capital projects.

Pro	iect Arc	hive Utility										
		inve otinty										
KHA H	ealth Tracking											
Capital	Tracking											
Filter: N	DNE											
nput ad	ditional filter crit	eria here (ex. CTREQ.OrigBud	lgetTOT>=5000)									
Sort: (a:	c)											
	CAPREQ / POTRANS	Project ID	Purchase Request ID	Entity	Department	Description	Archive	Complete	Status	Original Budget	Budget Exceptions	Transfers
e •	2	2017.002.26480.001		2	26480	Master Facility Plan, New Cancer Center	1	No		11 125 000	(11.135.000)	
	2	2017.002.26480.001	PR.2017.002.26480.001.001	2	26480	Construction PO 5916	No	No	Approved	11,125,000	(11,125,000)	
	56		PR.2017.002.26480.001.001 PR.2017.002.26480.001.002	2	26480	Construction PO 5910	No		Approved Approved			
	57		PR.2017.002.26480.001.002	2	26480	Linear Accelerator Down Payment	No		Approved			
	58		PR.2017.002.26480.001.004	2	26480	Architect Fees	No		Approved			
00	59		PR.2017.002.26480.001.005	2	26480	Construction PO 5930	No		Approved			
0	60		PR.2017.002.26480.001.006	2	26480	Construction PO 5940	No		Approved			
0	61		PR.2017.002.26480.001.007	2	26480	Linear Accelerator Second Payment	No		Approved			
00	62		PR.2017.002.26480.001.008	2	26480	Architect Fees - Second Payment	No		Approved			
0	63		PR.2017.002.26480.001.009	2	26480	Construction PO 5969	No		Pending			
20	64		PR.2017.002.26480.001.010	2	26480	Construction PO 5998	No		Pending			
0	65		PR.2017.002.26480.001.011	2	26480	Oncology Equipment	No		Pending			
60	66		PR.2017.002.26480.001.012	2	26480	Architect Fees - Third Payment	No		Pending			
6	3	2017.002.26140.001		2	26140	Bed, Bariatric Beds	No	No	Approved	48,050	(48,050)	
6	2		PR.2017.002.26140.001.001	2	26140	Purchase of 2 of the 3 beds currently budgeted.	No		Approved			
6	3		PR.2017.002.26140.001.002	2	26140	Last of 3 beds to order.	No		Pending			
60	4	2017.002.27550.001		2	27550	EMG (Spine Neuro), Cyber Knife	No	No	Pending	5,855,000	(5,855,000)	
0	5	2017.010.102002.001		10	102002	General Construction, Dental Surgery Expansion	No	No	Pending	968,000	(968,000)	
0	6	2017.002.26750.001		2	26750	Mammography Unit, Digital Mammo Unit	No	No	Pending	540,000	(540,000)	(
80	7	2017.001.19150.001		1	19150	General Software, ICU Software	No	No	Approved	1,600,000	(1,600,000)	(

Project Completion Status

Use this report to update the completion status for capital projects. For more information, see Marking a capital project as complete.

	l Tracking											
ilter: N	ONE											
nput ac	ditional filte	er criteria here (ex. CTRE	Q.OrigBudg	etTOT>=5000)								
ort: (a	sc)											
	CAPREQ	Project ID	Entity	Department	Project Description	Complete	Status	Original Budget	Budget Exceptions	Transfers	Adjusted Budget	Purchase Requests
								-				
30		2017.001.19000.001	1	19000	Land Purchase, For New MOB	No	Approved	0	0	1,000,000	1,000,000	
30		2017.001.19150.001	1	19150	General Software, ICU Software	No	Approved	1,600,000	(1,600,000)	0	1,600,000	
		2017.001.26310.001	1	26310	Monitor, Transport Monitor for Patient Sedations	No	Pending	20,000	(20,000)	0	20,000	
		2017.001.26310.002	1	26310	Bed, Pediatric Cribs	No	Approved	32,000	(32,000)	0	32,000	
		2017.001.26310.003		26310	Ice Machine, Replacement for Dietary	No	Approved	4,000	(4,000)	0	4,000	
30		2017.001.26310.004	1	26310 26310	Incubator, Isolette/ Incubator	No	Pending	38,920 120,000	(38,920)	0	38,920 120,000	
		2017.001.26310.005 2017.001.26310.006	1	26310	Incubator, Transport Incubator/ Isolette Other General Medical, Whole Body Cooling Device	NO	Approved Pending	4.800	(120,000) (4,800)	0	4,800	
		2017.001.26350.001	1	26350	Monitor, Telemetry Transmitters	No	Approved	15.800	(15,800)	0	15,800	
30		2017.001.26350.001	1	26350	Monitor, End Tidal CO2 monitoring	No	Pending	17,500	(17,500)	0	17,500	
30		2017.001.26350.002	1	26350	Bed. CCU Beds	No	Approved	79.695	(79,695)	0	79.695	
20		2017.001.26350.003	1	26350	Monitor. Dash 3000 Portable Monitor	No	Pending	15.000	(15,000)	0	15.000	
20		2017.001.26350.005	1	26350	Oximeter. Portable Pulse Oximeters	No	Approved	7.500	(7,500)	0	7.500	
30		2017.001.26350.006	1	26350	Other Engineering / Facilities, Flooring	No	Pending	20.000	(20,000)	0	20,000	
30		2017.001.26350.007	1	26350	Phototherapy Unit, Bili Soft Photo Therapy	No	Approved	8.000	(8,000)	0	8.000	
30		2017.001.26430.001	1	26430	General Furniture, Glider/ Rocker Chairs	No	Pending	10,200	(10,200)	0	10,200	
30		2017.001.26430.002	1	26430	Incubator, Radiant Warmers	No	Approved	26,000	(26,000)	0	26,000	
30	30	2017.001.26440.001	1	26440	Bassinet, Replacement for Peds	No	Pending	62,700	(62,700)	0	62,700	
30	31	2017.001.26470.001	1	26470	Fetal Heart Detector, 12 Lead EKG Machine, MAC 5500	No	Approved	15,000	(15,000)	0	15,000	
3 0	32	2017.001.26470.002	1	26470	Other General Medical, Bladder Scanner BVI 9400	No	Approved	18,000	(18,000)	0	18,000	18
3 0	33	2017.001.26470.003	1	26470	Other General Medical, Blanket Warmer	No	Approved	35,400	(35,400)	0	35,400	
3 0	34	2017.001.26470.004	1	26470	Monitor, Tele Transmitters	No	Pending	45,000	(45,000)	0	45,000	
3 0	35	2017.001.26470.005	1	26470	Bed, Patient Beds	No	Approved	74,400	(74,400)	0	74,400	
30	37	2017.001.26470.007	1	26470	General Furniture, Conference Room Furniture	No	Pending	11,000	(11,000)	0	11,000	
30	38	2017.001.26770.001	1	26770	Monitor, Telemedicine	No	Pending	173,000	(173,000)	0	173,000	
> 0	39	2017.001.26770.002	1	26770	Monitor, Patient Monitor	No	Pending	16,680	(16,680)	0	16,680	

Purchase Request Approval and Assign CO

Use this report to approve purchase requests and enter purchase order numbers for tracking. For more information, see Approving purchase requests and entering POs.

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	<)										
	POTRANS	Project ID	Entity	Department	Project Description	Purchase Request ID	PR Approval	Approval Date	Purchase Req Amount	Current Step Number	Current Step Name
5 0	68	2017.001.19000.001	1	19000	Land Purchase, For New MOB	PR.2017.001.19000.001.001	Pending	NA	0	There is an error	There is an error in XML c
2 0	69	2017.001.19000.001	1	19000	Land Purchase, For New MOB	PR.2017.001.19000.001.013	Pending	NA	0	There is an error	There is an error in XML of
2 0	67	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.001	Pending	NA	0	There is an error	There is an error in XML of
2 0	5	2017.001.26310.002	1	26310	Bed, Pediatric Cribs	PR.2017.001.26310.002.001	Approved	1/17/2017	0	There is an error	There is an error in XML of
2 0	6	2017.001.26310.003	1	26310	Ice Machine, Replacement for Dietary	PR.2017.001.26310.003.001	Approved	1/23/2017	0	There is an error	There is an error in XML
7 0	7	2017.001.26310.005	1	26310	Incubator, Transport Incubator/ Isolette	PR.2017.001.26310.005.001	Approved	7/2/2017	0	There is an error	There is an error in XML of
7 0	8	2017.001.26350.001	1	26350	Monitor, Telemetry Transmitters	PR.2017.001.26350.001.001	Approved	1/23/2017	0	There is an error	There is an error in XML
> 0	9	2017.001.26350.003	1	26350	Bed, CCU Beds	PR.2017.001.26350.003.001	Approved	1/23/2017	0	There is an error	There is an error in XML
> 0	10	2017.001.26350.005	1	26350	Oximeter, Portable Pulse Oximeters	PR.2017.001.26350.005.001	Approved	2/21/2017	0	There is an error	There is an error in XML
> 0	11	2017.001.26350.007	1	26350	Phototherapy Unit, Bili Soft Photo Therapy	PR.2017.001.26350.007.001	Approved	2/21/2017	0	There is an error	There is an error in XML
> 0	12	2017.001.26430.002	1	26430	Incubator, Radiant Warmers	PR.2017.001.26430.002.001	Approved	3/7/2017	0	There is an error	There is an error in XML
> 0	13	2017.001.26470.001	1	26470	Fetal Heart Detector, 12 Lead EKG Machine, 1	v PR.2017.001.26470.001.001	Approved	3/20/2017	0	There is an error	There is an error in XML
2 0	14	2017.001.26470.002	1	26470	Other General Medical, Bladder Scanner BVI	9 PR.2017.001.26470.002.001	Pending	NA	18,000	There is an error	There is an error in XML
2 0	15	2017.001.26470.003	1	26470	Other General Medical, Blanket Warmer	PR.2017.001.26470.003.001	Approved	3/21/2017	0	There is an error	There is an error in XML
2 0	16	2017.001.26470.005	1	26470	Bed, Patient Beds	PR.2017.001.26470.005.001	Approved	3/21/2017			There is an error in XML
2 0	17	2017.001.26770.004	1	26770	Other General Medical, Prone Breast Board	PR.2017.001.26770.003.001	Approved	4/25/2017	0	There is an error	There is an error in XML
> 0	18	2017.001.26770.006	1	26770	Other General Medical, Prone Breast Board	PR.2017.001.26770.005.001	Approved	4/26/2017	0	There is an error	There is an error in XML
> 0	19	2017.001.26780.004	1	26780	General Software, Flex Vision Lab 2	PR.2017.001.26780.002.001	Pending	NA	207,740	There is an error	There is an error in XML of
3 O	20	2017.001.26780.006	1	26780	Recorder, Cardiolab EP Recorder	PR.2017.001.26780.004.001	Approved	4/28/2017	0	There is an error	There is an error in XML o
3 0	21	2017.001.26780.008	1	26780	Stimulator, EP Med Stimulator	PR.2017.001.26780.006.001	Approved	4/29/2017	0	There is an error	There is an error in XML of
> 0	22	2017.001.26790.002	1	26790	General Software, Electronic Whiteboard Tra	PR.2017.001.26780.008.001	Approved	4/30/2017	0	There is an error	There is an error in XML
2 0	23	2017.001.26790.004	1	26790	Monitor, Patient Monitors	PR.2017.001.26790.002.001	Approved	5/1/2017	0	There is an error	There is an error in XML of
2 0	24	2017.001.26810.001	1	26810	Electrosurgical Unit, Electro Surgical Units	PR.2017.001.26790.004.001	Approved	5/2/2017	0	There is an error	There is an error in XML o
2 0	25	2017.001.26810.003	1	26810	Other General Medical, Medical Procedural C	PR.2017.001.26810.001.001	Approved	5/3/2017	0	There is an error	There is an error in XML of
2 0	26	2017.001.26810.005	1	26810	Ventilator, Replacement for 5 North	PR.2017.001.26810.003.001	Approved	5/4/2017	0	There is an error	There is an error in XML of
> 0	27	2017.001.26810.007	1	26810	Monitor, End Tidal CO2 Monitor	PR.2017.001.26810.005.001	Approved	5/5/2017	0	There is an error	There is an error in XML
> 0	28	2017.001.27370.002	1	27370	Ventilator, BIPAP	PR.2017.001.27240.004.001	Approved	5/6/2017	0	There is an error	There is an error in XML
> 0	29	2017.001.27640.001	1	27640	Table, Ultrafin Stirrup	PR.2017.001.27370.002.001	Approved	5/7/2017	0	There is an error	There is an error in XML of
7 O	30	2017.001.27640.003	1	27640	C-Arm, Replacement for Radiology	PR.2017.001.27640.001.001	Approved	5/8/2017	0	There is an error	There is an error in XML

Retrospective review reports

The following is a list of retrospective reports and utilities to manage the retrospective process for your projects.

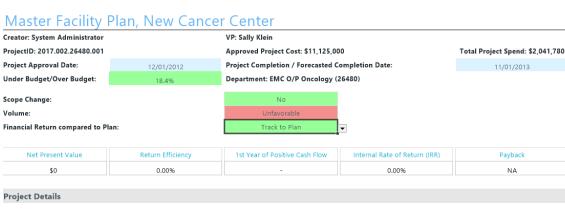
Retrospective Comprehensive Report

Use this report to view a summary listing of comprehensive updates for capital projects. For more information, see Running the Retrospective Comprehensive report

ilter: NONE								
nput additional filter criteria here	(ex. CTREQ.OrigBudgetTOT>=5000)							
Entity Description	Name	Approved Project Cost	Forecasted Spend Under Budget/ Over Budget	Life to Date Spend	Project Approval Date	Project Completion/ Forecasted Completion Date	Scope Change	Volume
(H Health System	Monitor, Transport Monitor for Pati	\$20,000	100.0%	\$0				
KH Health System	Bed, Pediatric Cribs	\$32,000	100.0%	\$32,000				
(H Health System	Ice Machine, Replacement for Dieta	\$4,000	100.0%	\$4,000				
(H Health System	Incubator, Isolette/ Incubator	\$38,920	100.0%	\$0				
KH Health System	Incubator, Transport Incubator/ Isol	\$120,000	100.0%	\$120,000				
KH Health System	Other General Medical, Whole Body	\$4,800	100.0%	\$0				
KH Health System	Monitor, Telemetry Transmitters	\$15,800	100.0%	\$15,800				
KH Health System	Monitor, End Tidal CO2 monitoring	\$17,500	100.0%	\$0				
KH Health System	Bed, CCU Beds	\$79,695	100.0%	\$74,400				
KH Health System	Monitor, Dash 3000 Portable Monit	\$15,000	100.0%	\$0				
(H Health System	Oximeter, Portable Pulse Oximeters	\$7,500	100.0%	\$7,500				
(H Health System	Other Engineering / Facilities, Floori	\$20,000	100.0%	\$0				

Retrospective Comprehensive Update

Use this report to enter a Retrospective Comprehensive Update for individual capital projects. For more information, see Running the Retrospective Comprehensive Update report.



\$0	0.00%	-	0.00%	NA
Project Details				
Long Description	New Cancer Center that will be on the	he east side of the city.		
Project Justification		r services over the last 3 years, and we portunity to increase market share.	e need a new facility to remain	
Class	Master Facility Plan	Reason	Strategic Plan	
Category	Construction	Priority	Create/Maintain Marketability	

11/01/2013

Payback

Retrospective Status Report

Use this report to view a summary listing of capital project status updates. For more information, see Running the Retrospective Status report.

Retrospective Sta KHA Health Capital Tracking	atus Report					
Filter: NONE						
Input additional filter criteria here (ex	. CTREQ.OrigBudgetTOT>=5000)					
Entity Description	Name	Approved Project Cost	Forecasted Spend Under Budget/ Over Budget	Life to Date Spend	Project Approval Date	Project Completion/ Forecasted Completion Date
KH Health System	Monitor, Transport Monitor for Patient Sedations	\$20,000	100.0%	\$0		
KH Health System	Bed, Pediatric Cribs	\$32,000	100.0%	\$32,000		
KH Health System	Ice Machine, Replacement for Dietary	\$4,000	100.0%	\$4,000		
KH Health System	Incubator, Isolette/ Incubator	\$38,920	100.0%	\$0		
KH Health System	Incubator, Transport Incubator/ Isolette	\$120,000	100.0%	\$120,000		
KH Health System	Other General Medical, Whole Body Cooling Device	\$4,800	100.0%	\$0		
KH Health System	Monitor, Telemetry Transmitters	\$15,800	100.0%	\$15,800		
KH Health System	Monitor, End Tidal CO2 monitoring	\$17,500	100.0%	\$0		
KH Health System	Bed, CCU Beds	\$79,695	100.0%	\$74,400		

Retrospective Status Update

Use this report to enter a Retrospective Status Updates for individual capital projects. For more information, see Entering Retrospective Status Updates for capital projects.

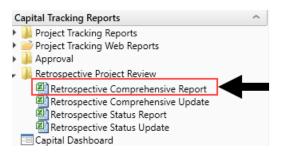
Master Facility	Plan, New Cancer	r Center				
Creator: System Administrator		VP: Sally Klein				
ProjectID: 2017.002.26480.001		Department: EMC O/P Oncology (26480)				
Forecasted Spend Under Budge	t / Over Budget: 100.0%	Approved Project Cost: \$11,125,00	0	Forecasted Project Spend: \$11,125,000		
Project Approval Date:	12/01/2012	Project Completion / Forecasted C	ompletion Date:	11/01/2013		
Net Present Value	Return Efficiency	1st Year of Positive Cash Flow	Internal Rate of Return (IRR)	Payback		
\$0	0.00%	-	0.00%	NA		
Project Details						
Long Description	New Cancer Center that will be on th	he east side of the city.				
Project Justification		r services over the last 3 years, and we pportunity to increase market share.	need a new facility to remain			
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Class	Master Facility Plan	Reason	Strategic Plan			
Category	Construction	Priority	Create/Maintain Marketability			

Running the Retrospective Comprehensive report

In Axiom Capital Tracking, use this report to view a summary listing of capital project comprehensive updates.

To run the Retrospective Comprehensive report:

1. In the Cap Track or Cap Track Admin task pane, in the Capital Tracking Reports section, click Retrospective Project Review, and double-click Retrospective Comprehensive Report.



- 2. Refresh the report variables by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.

File	MAIN	HELP ADMIN	N Hor	ne					
Open App Menus •	? Online Help ▼	Navigation	Save	Refresh Data	Change View •	Drill	Additions	Quick Filter	
Applications	Help	File Optio	ons			Workboo	ok Options		

- Press F9.
- 3. In the **Refresh Variables** dialog, click **Choose Value** to select the items to include in the report or leave the fields blank to return all the results for all items, and click **OK**.
- 4. To filter for additional criteria, enter the criteria in the Input additional filter criteria here cell.

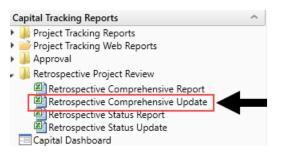
PKG Capital Tracking	omprehensive Repo								
Filter: NONE									
Input additional filter criteria here (ex. CTREQ.OrigBudgetTOT>=5000)								
Entity Description	Name	Approved Project Cost	Forecasted Spend Under Budget/ Over Budget	Life to Date Spend	Project Approval Date	Project Completion/ Forecasted Completion Date	Scope Change	Volume	Financial Reti
KH Health System	Anesthesia Unit, Anesthesia Machin	\$59,077	100.0%	\$0					
KH Health System	Monitor, Equipment for Pre/Post Ar	\$207,740	100.0%	\$0					
KH Health System	Radiographic / Tomographic System	\$180,000	100.0%	\$0					
KH Health System	General Software, Flex Vision Lab 2	\$125,000	100.0%	\$0					
KH Health System	General Construction, Construction	\$200,000	100.0%	\$0					
KH Health System	Recorder, Cardiolab EP Recorder	\$105,000	100.0%	\$105,000					
KH Health System	Other General Medical, TZ Medical	\$20,000	100.0%	\$0					
KH Health System	Stimulator, EP Med Stimulator	\$20,000	100.0%	\$20,000					
KH Health System	Monitor, Passport V Monitor	\$30,000	100.0%	\$0					
KH Health System	General Software, Electronic Whiteb	\$34,000	100.0%	\$34,000					
KH Health System	Lift, Pedigo Mayo Stand	\$4,120	100.0%	\$0					
KH Health System	Monitor, Patient Monitors	\$96,000	100.0%	\$96,000					
(H Health System	Electrosurgical Unit, Electro Surgical	\$21,300	100.0%	\$21,300					
H Logith System	Tabla Midmark Evam Tabla	\$12.675	100.0%	40	•				

Running the Retrospective Comprehensive Update report

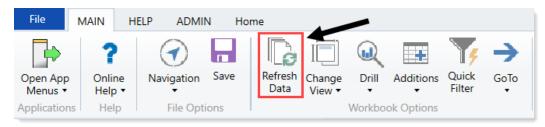
In Axiom Capital Tracking, use this report to view a summary listing of capital project comprehensive updates.

To run the Retrospective Comprehensive Update report:

1. In the Cap Track or Cap Track Admin task pane, in the Capital Tracking Reports section, click Retrospective Project Review, and double-click Retrospective Comprehensive Report.



- 2. Refresh the report variables by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



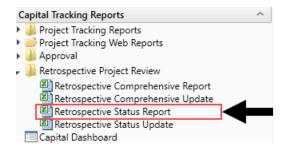
- Press F9.
- 3. In the **Refresh Variables** dialog, click **Choose Value** to select the items to include in the report or leave the fields blank to return all the results for all items, and click **OK**.
- 4. To filter for additional criteria, enter the criteria in the Input additional filter criteria here cell.

Running the Retrospective Status report

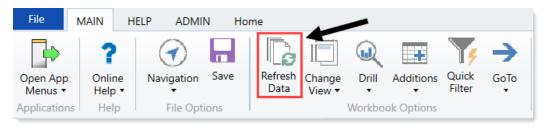
In Axiom Capital Tracking, use this report to view a summary listing of capital project status updates.

To run the Retrospective Status report:

1. In the Cap Track or Cap Track Admin task pane, in the Capital Tracking Reports section, click Retrospective Project Review, and double-click Retrospective Status Report.



- 2. Refresh the report variables by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 3. In the **Refresh Variables** dialog, click **Choose Value** to select the items to include in the report or leave the fields blank to return all the results for all items, and click **OK**.
- 4. To filter for additional criteria, at the top of the screen, enter the criteria in the **Input additional** filter criteria here cell.

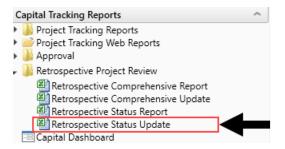
Filter: NONE						
	(ex. CTREQ.OrigBudgetTOT>=5000)					
Entity Description	Name	Approved Project Cost	Forecasted Spend Under Budget/ Over Budget	Life to Date Spend	Project Approval Date	Project Completion Forecasted Completio Date
KH Health System	Monitor, Transport Monitor for Patient Sedations	\$20,000	100.0%	\$0		
KH Health System	Bed, Pediatric Cribs	\$32,000	100.0%	\$32,000		
KH Health System	Ice Machine, Replacement for Dietary	\$4,000	100.0%	\$4,000		
KH Health System	Incubator, Isolette/ Incubator	\$38,920	100.0%	\$0		
KH Health System	Incubator, Transport Incubator/ Isolette	\$120,000	100.0%	\$120,000		
KH Health System	Other General Medical, Whole Body Cooling Device	\$4,800	100.0%	\$0		
KH Health System	Monitor, Telemetry Transmitters	\$15,800	100.0%	\$15,800		
KH Health System	Monitor, End Tidal CO2 monitoring	\$17,500	100.0%	\$0		
KH Health System	Bed, CCU Beds	\$79,695	100.0%	\$74,400		
KH Health System	Monitor, Dash 3000 Portable Monitor	\$15,000	100.0%	\$0		
KH Health System	Oximeter, Portable Pulse Oximeters	\$7,500	100.0%	\$7,500		
KH Health System	Other Engineering / Facilities, Flooring	\$20,000	100.0%	\$0		
KH Health System	Phototherapy Unit, Bili Soft Photo Therapy	\$8,000	100.0%	\$8,000		

Running the Retrospective Status Update report

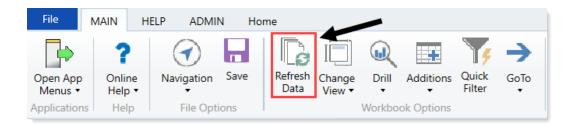
In Axiom Capital Tracking, use this report to view a summary listing of capital project status updates.

To run the Retrospective Status Update report:

1. In the Cap Track or Cap Track Admin task pane, in the Capital Tracking Reports section, click Retrospective Project Review, and double-click Retrospective Status Report.



- 2. Refresh the report variables by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 3. In the **Refresh Variables** dialog, click **Choose Value** to select the items to include in the report or leave the fields blank to return all the results for all items, and click **OK**.
- 4. To filter for additional criteria, at the top of the screen, enter the criteria in the **Input additional** filter criteria here cell.

Running a web report

For a list and description of all the reports you can access, see Reports included in Axiom Capital Planning.

To run a web report:

- 1. In the Cap Track Admin or Cap Track task pane, in the Capital Tracking Reports section, click Project Tracking Web Reports.
- 2. Double-click the report to run.
- 3. On the left side of the screen, do one of the following:

Option	Description
To filter the information to include in	a. Select the data to filter the report by.
the report	b. Click Apply.
To include all of the projects in the report	Leave the fields blank, and click Apply .
To configure the way information is ordered in the report	 In the Sort drop-down, select the column to sort by. In the Order drop-down, select ascending or descending order.
To remove all of the selections in the filter fields	Click Clear All.

4. To print or save a PDF version of the report, in the upper right corner of the report, click the PDF icon.

Capital Account Balances KHA Health | Capital Tracking



Total		3,800,280	
Acct	Account Description	Ending Balance	
0	Unassigned/Not Applicable	0	
17000	Land	455,000	
17300	Buildings	2,813,500	
17600	Equipment	375,000	
17615	HIPPA Compliance	156,780	

5. From the browser, print or save the report.

Working with spreadsheet reports

This section includes procedures related to running Axiom Capital Tracking spreadsheet reports.

Running a spreadsheet report

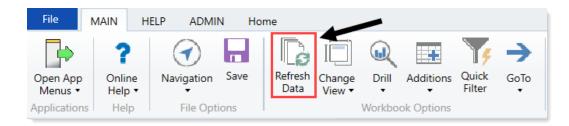
For a list and description of all the Axiom Capital Tracking spreadsheet-based reports, see Reports included in Axiom Capital Planning.

To run a spreadsheet report:

- 1. In the Cap Track or Cap Track Admin task pane, in the **Capital Tracking Reports** section, click one of the following folders:
 - Project Tracking Reports

NOTE: For more information, see Tracking Capital Projects.

- Approval
- Retrospective Project Review
- 2. Double-click the report.
- 3. Refresh the report data by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 4. Do one of the following:

Option	Description
Select one or more projects to include in the report	a. In the Refresh Variables dialog, for each option to filter by, click Choose Value .
	b. In the Choose Value dialog, select the values to include, and click OK .
	 c. In the Sort drop-down, select the column to sort by.
	d. In the Order drop-down, select ascending or descending.
	e. In the Refresh Dialog, click OK.
Include all projects in the report	In the Refresh Variables dialog, leave the field blank, and click OK .

- 5. If applicable, in the blue and/or green cells, enter or select the appropriate values.
- 6. After you are done making any applicable changes, in the Main ribbon tab, click Save.

File	MAIN H	ELP ADMIN	N Ho	me					
Open App Menus •	? Online Help ▼	(Navigation	Save	Refresh Data	Change View •	Drill	Additions	Quick Filter	
Applications	Help	File Opti	ons			Workboo	ok Options		

Refreshing a report with data

To update a report with the most current data from the database, refresh the file. A refresh does the following:

- Updates active Axiom queries with data, according to the update settings defined for the query.
- Updates Axiom functions with data.
- Performs an Excel calculation.

• Reapplies the currently active views (if applicable).

To refresh a report with data:

Do one of the following:

• On the Main ribbon tab, in the Workbook Options group, click Refresh Data.



• Press F9.

The system may prompt you to define values before the refresh occurs. If so, the system applies these values to the report to affect the data refresh.

Navigating reports

Apart from each report having an Instructions tab, Axiom Software report files do not have a standard structure. Each report can have any number of sheets, layouts, custom views, drill-downs, GoTo targets, quick filters, and associated task panes—all configured for the specific information that displays.

Although not all of these features are available for every report, here is an overview of common report features:

Instruction tab

Each report has an Instructions tab that provides an overview of its specific business purpose, features, and steps for processing the report.

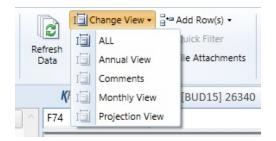
Custom views

Custom views allow for different presentations of data within a report. For instance, a report might default to showing monthly data but have custom views defined for displaying data by quarter or year.

NOTE: Not all reports have custom views defined.

If custom views have been defined within a report, you can access them by doing the following:

1. In the Main ribbon tab, in the Workbook Options group, click Change View.



2. From the menu, select the view to use.

Quick Filter

A Quick Filter is a temporary report filter. This allows you to quickly view the data at a different level of detail, without needing to alter the report configuration. For more information, see the following:

- Applying a Quick Filter to a report
- Using the Advanced Filter Wizard
- Understanding hierarchy-based Quick Filters

Drills

Some reports contain rows (or columns) where the data represents a roll-up of values for multiple database records. For instance, an income summary report might combine patient revenue for all departments into a single total for the year, or a report on payroll by department might roll up both regular and non-productive hours into a combined number of hours for each department. In such cases, you can use drills to view the individual values for each item included in the roll-up.

To drill in a report, do the following:

- 1. In the report spreadsheet, select a cell.
- 2. In the Main ribbon tab, in the Workbook Options group, click Drill.
- 3. From the drop-down, select any of the available drills to view a breakdown by that dimension or value.

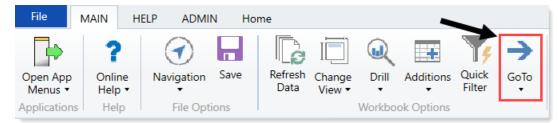
A new spreadsheet opens to display data at the specified drill-down level.

NOTE: While we have made an effort to deactivate any drill options that do not apply to a particular row/column/cell, there are simply too many possibilities for us to deactivate every invalid drilling method for every cell in every report. As a result, certain drill methods may produce strange results. For the most part, common sense should imply which dimensions or values you can drill for a given roll-up (for example, drilling by Vice President on a single department might result in a report with a single record, as a department typically has one VP assigned to it).

GoTo targets

GoTo targets are simply bookmarks that allow you to jump to different sections of a report. Not all reports include GoTo targets. To navigate to a target, do the following:

1. In the Main ribbon tab, in the Workbook Options group, click GoTo.



2. From the menu, select the GoTo target.

Applying a Quick Filter to a report

Using the Quick Filter feature, you can apply a temporary filter to a report. This allows you to quickly view the data at a different level of detail, without needing to alter the report configuration.

For example, you may be viewing an Income Statement report for the entire consolidated organization, and you want to view the same report at a different level of detail, such as for just North America or just the South region. You can use the Quick Filter to recalculate the report at the desired level of detail, and then clear the filter when you are done.

The Quick Filter is combined with your table security filters and any filters that are currently defined in the report, such as sheet filters and filters defined for Axiom queries.

NOTE: You can also use the Quick Filter feature on file group utilities and drivers.

To apply a Quick Filter to a report:

1. On the Main ribbon tab, in the Workbook Options group, click Quick Filter.



- 2. At the top of the dialog, specify how the filter should be applied:
 - Workbook (default): The Quick Filter is applied to all sheets in the workbook.
 - Active Sheet: The Quick Filter is only applied to the currently active sheet.

A Quid	k Filter			?	×
	Edit the Quick Filter for the active sheet or v	vorkbook.			
Apply	Filter To:]			
Data H	ierarchies			Advanced	l Filter
<type h<="" th=""><th>ere to filter values></th><th></th><th></th><th></th><th>\times</th></type>	ere to filter values>				\times
▶異	Director				\sim
	Entity				
▶爲	Entity Description				
▶爲	Financial Structure				
▷ 晟	FP Model Structure				
▶幕	FP Model Structure				
▶ 品	FP Model Structure				
▷ 몲	JobCode Structure				
▷ 몲	Manager				
⊳ لاھ	Model				
⊳ لاھ	Model				
⊳ لاھ	Model				
▷ 몲	PAY Structure				
▶ 몲	PlanOwners				
▷ 몲	Responsibility				
下 모	PE Perponsibility		 		\sim
Filter:				Clear Fil	ter X
			OK		
			OK	Can	icel

This selection may determine which hierarchies and tables are available in the dialog to build the filter. For more information, see Hierarchy and table availability in the Quick Filter dialog.

- 3. In the Quick Filter dialog, define a filter using one of the following methods:
 - Data Hierarchies: Select the desired hierarchy level(s) from the hierarchies listed in the dialog. As you select items in the hierarchy, the corresponding filter is automatically built in the Filter box.

For example, you might have a hierarchy named Geography, which has local regions rolling up into countries, and countries rolling up into world regions. You can select the desired items that you want to see in the report, such as Europe, Asia, or North America as world regions. For more information and examples, see Understanding hierarchy-based Quick Filters.

- Manual Filter: You can manually type a filter into the Filter box using standard filter criteria statement syntax. Fully qualified Table.Column syntax must be used.
- Advanced Filter: Click Advanced Filter to create a filter using any reference table columns (not just hierarchy columns).

0	Quick Filter	? 🗙
Edit the Quick F	ilter for the active sheet or workbook.	
Apply Filter To: 🔍 W	/orkbook O Active Sheet	
Data Hierarchies <type filter="" here="" td="" to="" vali<=""> ▷ 문 ▲ R Geography ▷ World Regio ▷ World Regio</type>	on Corporate on Europe	Option 3: Click to switch to the Advanced Filter view
Filter:	Option 2: Type a filter directly in the Filter box	Clear Filter 🔀
		OK Cancel

For more information about general filter settings in this dialog, see Using the Advanced Filter Wizard.

NOTE: If the data in the report comes from tables that use multiple-level hookups, then using a hierarchy to apply a Quick Filter may not result in the intended data. Instead, you should use the Advanced Filter to build up the filter using the appropriate multiple-level syntax.

4. Click OK.

If the Quick Filter is applied to the entire workbook, a warning message informs you that the entire workbook will be refreshed. If you do not want to see this message again in the future, select **Don't show this message again**. Click **OK** to continue.

Clearing the Quick Filter

After you have applied a Quick Filter to a report, the filter remains applied until one of the following occurs:

- The file is closed. Quick Filters cannot be saved in the file and are always cleared when the file is closed.
- A new Quick Filter is applied by using the Quick Filter button and selecting a different filter.
- The Quick Filter is manually cleared. To clear the Quick Filter, click the **Quick Filter** button again and then click **Clear Filter**.

Hierarchy and table availability in the Quick Filter dialog

The hierarchies and tables shown in the Quick Filter dialog are based on the Axiom queries in the report. Axiom Capital Tracking looks up the primary tables for the queries, and only shows the hierarchies and reference tables that are relevant to those primary tables. This is done to help ensure that the Quick Filter will be applicable to at least one query in the report.

If the filter applies to the entire workbook, then Axiom Capital Tracking looks at the primary tables for all Axiom queries in the workbook. If the filter applies to the active sheet only, then Axiom Capital Tracking looks at only the primary tables for the Axiom queries defined on the active sheet.

NOTE: In the Advanced Filter view, only reference tables are shown unless the primary table has potentially ambiguous lookup relationships. In that case, the primary data table is also shown so that the selections can be made directly on these lookup relationships, to avoid any ambiguity. For example, if the primary data table has columns PrimaryPhysician and SecondaryPhysician that both look up to Physician.Physician, then the selection must be made through the primary data table so that the correct path to Physician.Physician is used.

If the report uses GetData functions instead of an Axiom query, then all hierarchies and reference tables are listed in the dialog because Axiom Capital Tracking cannot determine the primary table in this context. In this case, it is possible to define a Quick Filter that does not apply to any GetData functions in the workbook. If this occurs, the filter will simply have no effect.

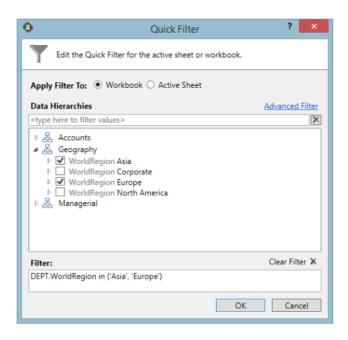
Understanding hierarchy-based Quick Filters

When you use hierarchies to create a Quick Filter, Axiom Capital Tracking automatically creates the filter based on your selections. When only one item is selected, the filter is simple—only data that matches the selected item is included. For example, if you select Asia from a Geography hierarchy, you will get a filter something like: Dept.WorldRegion='Asia', as shown in the following example:

 Quick Filter 	? ×
Edit the Quick Filter for the active sheet or workbool	k.
Apply Filter To: Workbook Active Sheet	
Data Hierarchies	Advanced Filter
<type filter="" here="" to="" values=""></type>	X
 ▷ ♣ Accounts ▲ B Geography ▷ WorldRegion Asia ▷ WorldRegion Corporate ▷ WorldRegion Europe ▷ WorldRegion North America ▷ ♣ Managerial 	
Filter:	Clear Filter 🗙
DEPT.WorldRegion = 'Asia'	
	OK Cancel

NOTE: Sometimes when you select a single child item underneath a parent item, the child and parent are joined with AND. For example: DEPT.VP='Jones' AND DEPT.Manager='Smith'. This means that the DEPT table has other instances of Manager Smith that belong to different VPs, so the compound statement ensures that you only get the data where Manager Smith is under VP Jones. (You can manually edit the filter to remove the Jones portion of the statement to see all of the data for Manager Smith, regardless of VP). If instead Axiom Capital Tracking constructs the filter as just Dept.Manager='Smith', that means all instances of Manager Smith are also under VP Jones.

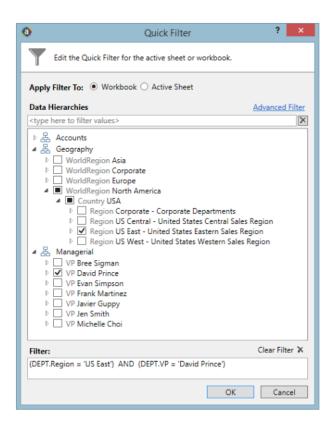
You can select multiple items in the same hierarchy or from different hierarchies. Items from the same hierarchy are combined using OR, which means data matching any of the selected items is included. Items from different hierarchies are combined using AND, which means only data that matches both selected items is included. In the following example, we selected two items from the same grouping level in a single hierarchy, so a simple filter criteria statement is created using IN. The resulting filter includes all of the data from Asia and Europe.



Next, we selected two items from different grouping levels, but within the same hierarchy. In this case, a compound filter criteria statement is created using OR. The resulting filter includes all of the data that belongs to Italy or US East.

Quick Filter	?	×
Edit the Quick Filter for the active sheet or workbook.		
Apply Filter To:		
Data Hierarchies Adva	nced	Filter
<type filter="" here="" to="" values=""></type>		\times
 Accounts Geography WorldRegion Asia WorldRegion Corporate WorldRegion Europe Country France ✓ Country Italy Country UK WorldRegion North America ✓ Country USA Country USA Region US Central - United States Central Sales Region ♦ Region US East - United States Western Sales Region ♦ Region US West - United States Western Sales Region ♦ Region US West - United States Western Sales Region 		
Filter: Clea	ar Fil	ter X
DEPT.Country = 'Italy' OR DEPT.Region = 'US East'		
ОК	Can	icel

Finally, we selected two items from different hierarchies, so a compound filter criteria statement is created using AND. The resulting filter includes only data that belongs to both US East and VP Jason Guppy.



Saving a report

When you save a report, the report file is updated in the Axiom Capital Tracking file system. If the report is configured to save data to the database, a save-to-database also occurs.

To save a report:

• On the Main ribbon tab, in the File Options group, click Save.



Your file permission settings in Security determine whether you can save a particular report. If a report is open with read/write permissions, then you can save it.

If a report is open with read-only permissions, then clicking **Save** opens the **Save As** dialog. You can save a copy of the report to any Reports Library folder location where you have read/write permissions, or to your My Documents folder (if applicable). A lock icon displays next to folders where you do not have read/write permissions to any folder in that folder tree. If you do not have read/write permissions to any folder, then when you click **Save** you are informed that you cannot save the file anywhere inside the Axiom file system. Alternatively, you can save a snapshot copy of the file, or save a copy locally using **Save As (Local)**.

Note the following:

- Some files may use a Control Sheet setting that causes the data in Axiom functions to zero when the file is saved. This is a security precaution that is normally enabled in reports only. You can click **Refresh** to restore the data.
- You may have *non-managed* report files that are saved on your local computer or a network file share. The **Save** option also updates these files. However, a save-to-database cannot be performed on non-managed files.

Creating a new report

You can create a new report if you have read/write access to at least one folder in the Reports Library. You can use any of the methods discussed below to create a new report. If you do not have these permissions, then the associated menu options for creating new reports will not be available to you.

NOTE: After saving a new report to the Axiom file system, you may not see that new report displayed in Axiom Explorer or the Reports menu until the file system has been refreshed. You can go to **Reports > Refresh file system** to manually trigger a refresh and cause the new report to display.

Creating a new report using the Report Wizard

You can create a new report using the Report Wizard. In the wizard, you make selections regarding the type of report that you want to create and the desired data, and then the wizard creates a report based on your choices. You can then further modify the report as needed. For more information, see *About the Report Wizard* in Help (Main ribbon tab > Help).

To create a new report using the Report Wizard:

• On the Main ribbon tab, in the Reports group, select Reports > Design Reports > Report Wizard.



Creating a new blank report

You can create a new report from scratch using the default blank report template. This template is entirely free-format.

If your organization has saved additional report templates, you can use those to create a new report as well. Only administrators can create new report templates.

To create a new blank report:

• On the Main ribbon tab, in the Reports group, select Reports > Design Reports > New Report.



If your system has multiple report templates, you can select the template to use from this menu. Otherwise, the default ReportTemplate is automatically used.

You can now use Axiom file functionality on this sheet, such as using Axiom queries to bring in data. For more details on setting up Axiom files, see *Axiom file setup* in Help (**Main** ribbon tab > **Help**).

Saving a new report

To save a new report, in the **File Options** group of the **Main** ribbon tab, click **Save**. When you save the new report for the first time, you are prompted to define a file name and select a folder location in the Reports Library. You can also define a description for the report.

A Save As					?	×
🔆 🌍 🎓 🖓 (Axiom\Reports Library						C
File • View •						
My Files	Name	Modified	Locked By	Size	Туре	Modifi
★ Favorites	🕌 Asset Replacement Planning Rep				File Folder	
Secent Second	鷆 Asset Replacement Planning Uti				File Folder	
My Documents	Budgeting Reports				File Folder	
ibraries ^	Budgeting Utilities				File Folder	
Reports Library	Capital Planning Reports				File Folder	
Asset Replacement Planning Reports	Capital Planning Utilities				File Folder	
Asset Replacement Planning Utilities	Capital Tracking Reports				File Folder	
Budgeting Reports Budgeting Utilities	Capital Tracking Utilities				File Folder	
Capital Planning Reports	Comparative Analytics Utilities				File Folder	
Capital Planning Utilities	Cost Management Reports				File Folder	
Capital Tracking Reports	Cost Management Utilities				File Folder	
 Capital Tracking Utilities 	Financial Planning Reports				File Folder	
Comparative Analytics Utilities	Financial Planning Utilities				File Folder	
Cost Management Reports Cost Management Utilities	Management Reporting				File Folder	
Gost Management Ountes Financial Planning Reports	Management Reporting Utilities				File Folder	
Financial Planning Utilities	Productivity Reporting				File Folder	
Management Reporting	Productivity Utilities				File Folder	
Management Reporting Utilities	Rolling Forecasting Reports				File Folder	
Productivity Reporting					File Folder	
Productivity Utilities	Rolling Forecasting Utilities					
Bolling Forecasting Reports	Strategy Management Reports				File Folder	
 Rolling Forecasting Utilities Strategy Management Reports 	Strategy Management Utilities				File Folder	
Strategy Management Utilities	System Files				File Folder	
 System Files 						
ile Group Utilities	File name: Report1					
Budget-2016	File name: Report I					
Capital Planning-2016	Description:					
Reports Library Description: The Reports Libra	ry repository				ave	Close

You must have read/write permissions to a folder to save a report there. A lock icon displays next to folders where you do not have read/write permissions. If you have access to a My Documents folder, you can also save reports there for your own use.

If you later want to change the file name, location, or description, you can use Axiom Explorer. If you do not have rights to access Axiom Explorer, you can edit the description by using **Save As (Repository)** (save the file with the same name and location, but edit the description).

You can also choose to save the report to your local drive or to a network location, by using **Save As** (Local File). In this case the report is not stored in the Axiom Capital Tracking database and is considered to be a *non-managed file*.

NOTE: Access to certain task panes (such as the Sheet Assistant) may depend on security permissions defined at a folder level. When a new report file is created, the file location is assumed to be the root of the Reports Library until the file is saved. Therefore access to task panes for brand new reports depends on the user's permissions defined at the Reports Library level. If a user does not have permission to the task panes at the Reports Library level but does have access at a sub-folder level, then the user will not see the task panes until they save the file to that sub-folder.

Creating a new report based on an existing file

You can use **Save As** to create a new report based on a copy of an existing report. You can save the copied file to the Reports Library, or as a local non-managed file.

You can also create a report based on an existing Excel file, by opening the Excel file in Axiom Capital Tracking. To use certain Axiom file features such as Axiom queries, you must add a Control Sheet to the report. For more information, see Control Sheets in Help (Main ribbon tab > Help). Then you can use Save As (Repository) to save the file to the Reports Library.

Creating a new report using an existing report

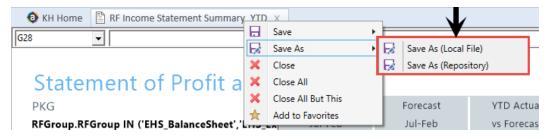
Axiom Capital Tracking comes with a wide array of standard reports for a variety of situations, and you should have no immediate need to create your own.

When the time comes that you require a customized report, however, Axiom Capital Tracking offers powerful and flexible options for building your own reports.

When creating custom reports, you can start from scratch, or perform a Save As on a standard report and begin customizing from there.

To create a new report using an existing report:

- To Save As, right click the report name, and select one of the following:
 - To save the new report in Axiom Capital Tracking, select Save As (Repository).
 - To save the new report outside of Axiom Capital Tracking, select Save As (Local File).



After you create a new report, we recommend saving it in My Files or some other location separate from the Axiom Capital Tracking list of standard reports.

Working with Report Processing

Some reports support automated processing. If so, the File Processing task pane displays collapsed on the left side of the screen when you open the report.

By using file processing, you can automatically refresh a file, such as a report, and then perform various actions on it. The file can be processed as-is, or you can leverage Multipass processing to cycle through each element of a dimension or grouping, with an appropriate data filter automatically applied to each pass.

You can use processing to perform the following actions:

- Save snapshot of file Create a snapshot copy of the current file, and then save and/or email it.
- **Print** Print the current file, using one or more print views.
- Export to delimited text file Export data in the current file to a delimited text file, and then save and/or email it.
- Save data Perform a save-to-database from the current file.
- Alerts Process alert conditions defined in the file.
- File collect Combine multiple spreadsheet files into a single file, and then save and/or email it.
- **Batch** Perform file processing on multiple files in a batch process, including the ability to override certain file processing settings for the file.

One common use for file processing is report distribution, which allows you to automatically deliver report files to multiple recipients. This frequently involves using several different features of file processing, for example:

- Multiple reports configured for snapshot file processing and using Multipass processing. For example, an income statement processed by department, region, or VP, and creating a separate snapshot file for each element.
- A report configured for file collect, to collect all of the snapshots into targeted report packages, including adding things like cover sheets and other supporting information. These packages could be saved to designated file locations and/or emailed to the appropriate recipients.
- A report configured for batch processing to run everything at once. For example, the batch would contain an entry for each report configured for snapshot processing, and then finish with the file collect report.

File processing is set up on a per-file basis. File processing can be set up on any Axiom file, but the primary use case is in reports.

NOTE: To set up a report for processing, some processing actions require set up before they can be performed. For example, to run a file collect process, the report must have a File Collect sheet defined. For more information, see *File Processing* in Axiom Help (Main ribbon tab > Help).

After the file has been configured to use file processing, you can process it by using **File Output > File Processing**. From this menu, you can choose to **Process File or Process File Multipass**. File processing can also be performed using Scheduler and from a task pane.

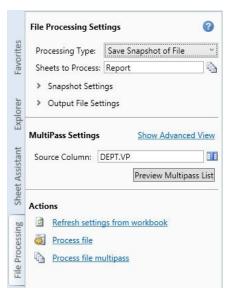
Processing a report

This procedure assumes that a file has already been configured for file processing. The File Processing menu command and the associated task pane are only available to administrators or to users with the **Allow File Processing** permission for the report.

NOTE: To set up a report for processing, some processing actions require set up before they can be performed. For example, to run a file collect process, the report must have a File Collect sheet defined. For more information, see *File Processing* in Axiom Help (Main ribbon tab > Help).

To process a report:

1. Run the report. To see what the report is configured to do during file processing before executing it, you can check the settings in the **File Processing** task pane.



- 2. In the File Processing Settings area, from the Processing Type drop-down, select an option, and specify any configuration settings.
- 3. In the Actions area, click the desired action to perform.

Understanding file output options

Axiom Capital Tracking provides a variety of file output options to share data with people throughout your organization. This section explains the file setup to use these features.

- **Print view setup**: You can set up one or more custom print views for each sheet in an Axiom file. You can associate these print views with sheet views to automatically hide and/or format rows and columns in the print copy.
- **Snapshot setup**: Users can take snapshot copies of Axiom files without requiring any advance setup. However, if desired, you can flag certain rows and columns in the sheet to be deleted in the snapshot copy. The primary use for this would be to delete work areas or Axiom query artifacts that are no longer necessary in the snapshot copy.

Printing an Axiom file

You can print an Axiom file on a per sheet basis by using the Print command. Each sheet can have one or more defined print views. You can use the print views to print different views of the sheet, and to set certain standard print options such as the print orientation. For example, for a plan file, you might have one print view that prints a summary view of the sheet with certain columns and rows hidden for printing, and another print view that prints a detail view of the sheet with all columns and rows visible.

If a sheet has no predefined print views, then you can print the sheet using the settings defined for the spreadsheet using standard Excel printing features. For more information on defining print settings for a spreadsheet, see the Microsoft Excel Help. In the Windows Client, the spreadsheet print settings are defined in the Workbook Explorer, in the Page Setup section for each sheet.

NOTE: You can always print the file using standard spreadsheet print functionality, even if Axiom print views have been defined.

To print an Axiom file:

- 1. On the Main ribbon tab, in the File Output group, click Publish to do one of the following:
 - To select the sheets to print, click **Print > Print This Sheet**.

The **Print Sheets** dialog opens. This dialog lists the available print views for the entire workbook or for the current sheet, depending on how you entered the dialog. To sort this list by the **Sheet Name** or **Print View Name**, click the column header.

Note the following:

- If a sheet does not have a defined print view, then it is listed with a print view name of Default, and uses the print settings defined for the spreadsheet.
- Control Sheets cannot be printed using the Axiom Capital Tracking printing feature, whether they are visible or hidden. To print a Control Sheet, use the standard spreadsheet printing features.
- 2. In the Print Sheets dialog, select the sheet / print view combinations to print.

	Print View Name	Print Details	Print Preview
Report	Dept	View/Edit	Print Preview
Report	Detail	View/Edit	Print Preview
Report	Summary	View/Edit	Print Preview

To print all print views for all sheets, select the checkbox in the column header to select all.

If you opened this dialog by using **Print This Sheet** and the sheet has only one available print view, then that view is selected by default.

- 3. You can also do any of the following before printing:
 - View and edit the print settings. To view and potentially change the print settings for a selected view, click the View/Edit link. In the Print Options dialog, you can change any of the print settings for the current print job only (the changes are not saved in the file). For more information, see Print Options dialog.
 - **Preview a print view.** To preview a print view, click the **Print Preview** link. The native spreadsheet **Print Preview** feature opens to preview the print job. You can only view one preview at a time.
 - Select a printer. To print to a different printer than your default printer, click Choose Printer at the bottom of the dialog. In the Printer Setup dialog, select the printer to use, and then click OK.
- 4. Click Print.

The selected items print.

Print Options dialog

The Print Options dialog displays the print settings for the current print view. If desired, you can edit settings for the current print job only. Any changes you make are not saved in the file.

NOTE: Print options are read-only when using the **Print Plan Files** option to print multiple plan files.

This dialog displays all of the settings that will be applied to the print job, whether the setting is defined in the associated Print tag or inherited from the spreadsheet settings. If a setting is blank, then that print option is not defined and is not applied to the print job.

Print View Options

Item	Description
Print View Name	The name of the current print view.
View Name	The name of the sheet view to be applied when printing. These are the same sheet views that are available from the Change View menu. For example, if the sheet view is configured to hide columns or rows, those columns and rows are hidden in the print copy. Row and column sizing are also applied.
Paper Size	The paper size for the print job, either Letter or Legal.
Orientation	The print orientation for the print view, either Portrait or Landscape.
Repeat Rows	The rows to repeat at the top of the page. Rows must be specified as a range; for example: 1:3.
Repeat Columns	The columns to repeat at the left of the page. Columns must be specified as a range; for example: A:C.

Scaling

Item	Description
Fit To Pages Wide	The number of pages on which to fit the print area. For example, if you want the print area to fit on one page, specify 1.
Percent Zoom	The percent zoom to apply to the print range. Specify the number without a percent sign. For example, to zoom by 90%, specify 90.

Headers and Footers

Item	Description
Left Header	Header text to display in the left-hand side of the header.
Center Header	Header text to display in the center of the header.
Right Header	Header text to display in the right-hand side of the header.
Left Footer	Footer text to display in the left-hand side of the footer.
Center Footer	Footer text to display in the center of the footer.
Right Footer	Footer text to display in the right of the footer.

Printing multiple plan files

You can print multiple plan files in batch by using the Print Plan Files feature. You can select multiple plan files within a file group, and then select one or more print views for each plan file.

NOTE: The available print views for each plan file are based on the template that was used to create the plan file. If a plan file has been modified to contain a print view that is not in the source template, that print view will not be available when using Print Plan Files. You can still print the view by opening the file and using Print.

To print multiple plan files from a file group:

1. On the Main ribbon tab, in the File Output group, click Publish > Print > Print Plan Files.

NOTE: If you have access to the file group menu for a file group, you can access **Print Plan Files** from the file group menu. In this case, the current file group is pre-selected in the dialog.

2. In the **Print Plan Files** dialog, from the **File Group** list, select the file group that contains the plan files to print.

You can only print one file group at a time. After you select a file group, the dialog displays a list of the available plan files.

- 3. In the Select plan files to print section, select the plan files to print.
 - You can sort and filter the list using standard Axiom grid functionality to find the plan files that you want to print.
 - To select multiple plan files at once, highlight the plan files, and then right-click and select **Select**. To print all of the plan files that currently display in the dialog, select the checkbox in

the header row.

After you select at least one plan file, you can select which print views to print.

- 4. In the **Select views to print** section (at the bottom of the dialog), select the views to print. You must do this for each source template used for the selected plan files.
 - Click the Select print views link.
 - In the Select Print Views dialog, select the sheet / print view combinations to print, and then click OK.

To view the settings that will be applied to the print job, click the **View** link. Print settings are read-only in this context.

NOTE: All template sheets are listed in this context (except for Control Sheets), including sheets that you may not normally see in plan files because they are hidden. If you select a sheet that is hidden in one of the selected plan files, it will not be printed. A message will inform you of the unprinted sheet when the printing process is complete.

• Repeat this process for each source template.

If all of the selected plan files were built using the same template, only one template is listed. If the selected plan files were built using multiple templates, then multiple templates are listed. The print selections for each template only apply to the plan files that were built using that template.

5. To print to a different printer than your default printer, click **Choose Printer** at the bottom of the dialog. In the **Printer Setup** dialog, select the printer to use, and then click **OK**.

NOTE: In the Windows Client, the printer is always your default printer unless you change it for a particular print job. In the Excel Client, the printer starts as your default printer, but if you change the printer for a print job, the changed selection is remembered for any future print jobs in the current session.

6. Click Print.

The selected plan files are printed, using the print view selections.

If a selected print view is not found in a target plan file, a message displays at the end of the process, listing the affected plan file and the relevant sheet / print view. This may occur if the print views in the template or the plan file have been modified after plan file creation.

Taking a snapshot copy of an Axiom file

You can take a snapshot of an Axiom file so that you can save a copy as a normal Excel file and then open it in Microsoft Excel (without needing Axiom Capital Tracking). For example, you may want to send a copy of a report to someone that does not have access to Axiom Capital Tracking.

When you create a snapshot of an Axiom file, the file is copied as an XLSX file, and the following occurs:

- All Control Sheets and any hidden sheets are automatically removed. You can choose to include all of the remaining sheets or only the active sheet.
- All Axiom formulas are replaced with values. You can choose to retain Excel formulas or replace them with values. If Excel formulas are preserved, certain formulas are replaced with values if they reference sheets or cells that are deleted as part of the snapshot processing.
- Rows and columns flagged for delete are deleted.

Due to the file format, any VBA macros in the file are also removed.

To take a snapshot of an Axiom file:

- 1. Open the file in Axiom Capital Tracking.
- 2. On the Main ribbon tab, in the File Output group, click Publish > Snapshot Workbook.
- 3. In the Snapshot File dialog box, in the Formula Replacements section, select one of the following:
 - Convert All Formulas (default): All formulas are replaced with values.
 - Retain Excel Native Formulas: All Excel formulas in the spreadsheet are retained as-is, with one exception. If a cross-sheet formula references a sheet that will not be present in the snapshot (depending on the Sheets To Snapshot setting), that formula is replaced with values.

Snapshot File		×
Formula Replacements		
 Convert All Formulas 		
○ Retain Excel Native Form	nulas	
Sheets To Snapshot		
 Limit To Active Sheet 		
O All Sheets In File		
<u>О</u> К	C <u>a</u> nce	el

NOTE: If the file contains a pivot table, you must select this option for the pivot table to work in the snapshot copy.

- 4. In the **Sheets to Snapshot** section, select one of the following:
 - Limit to Active Sheet (default): Include only the active sheet in the snapshot.
 - All Sheets In File: Include all sheets in the file (except any Control Sheets and hidden sheets, which are always removed).
- 5. Click OK.

The snapshot file is created and is opened in Axiom Capital Tracking. The navigation tab for the file is titled either **Sheetname_snapshot** (if the snapshot contains only one sheet) or **FileName_snapshot** (if the snapshot has multiple sheets). You can now use the **Save As** features to save the file locally or to a network location.

NOTE: If you use the Excel Client and you want to save a copy of the snapshot as a PDF file, you can use standard Excel functionality to do so. Use **File > Save As**, and then select **PDF** as the file type. This is an Excel-specific feature that is not available in the Windows Client.

To email a snapshot to someone directly, you can use the **E-Mail Workbook** feature. This creates a snapshot and attaches it to an email (instead of opening it in Axiom Capital Tracking).

Emailing a snapshot of an Axiom file

You can email a snapshot of an Axiom file using the E-mail feature on the Main ribbon tab. Axiom Capital Tracking creates a snapshot copy of the file and attaches it to an email. The copy can then be viewed outside of Axiom Capital Tracking by someone who may have no access to the system. When you use this feature, the system creates a snapshot copy of the file just like it would if you used the Snapshot feature.

You can send the email using your default email client (such as Microsoft Outlook), or you can send the file using the Axiom Capital Tracking Scheduler email service. For example, you may be using the software on a shared client server where you do not have access to a local email client, and therefore you would use the Axiom Capital Tracking email service to send the email.

NOTE: The Scheduler email service does not support HTML format for email.

If you use the Scheduler service, the email message is sent the next time the Scheduler SMTP Email Delivery task is run. The frequency of Scheduler email delivery depends on how this task has been configured in your environment, but typically it runs continuously (or close to it).

Note the following:

- The name of the emailed file is **Sheetname_snapshot** (if the snapshot contains only one sheet) or **FileName_snapshot** (if the snapshot has multiple sheets). You cannot change the name.
- You can also email snapshot copies using the File Processing feature. File processing is typically used when you want to automate the process and employ Multipass processing to send the same file to different people using different data. The E-mail feature is best used to send one-off snapshots as needed.

To email a snapshot copy of an Axiom file:

- 1. Open the file in Axiom Capital Tracking.
- 2. On the Main ribbon tab, in the File Output group, click Publish > E-mail Workbook.
- 3. In the Email Active Workbook dialog, for Send As, select Snapshot.

E-mail Active	Workbook	?	×
Send a sr	napshot of or a document link to Initi	ative Detail.xlsx.	
Send As: O S	napshot Send using: ocument Link	 Outlook Axiom Mail Service 	
Snapshot Optic	ons:		
Send file as:	XLSX - Microsoft Excel Worksheet (.xlsx) ~	
Include:	Active Worksheet Only Entire Workbook		
Formulas:	 Convert All Formulas Retain Excel Native Formulas 		
Document Link	Options:		
Sheet Filter:			1
Cell Address:		<u>0</u> K C	<u>a</u> ncel

- 4. For Send using, select one of the following:
 - **Outlook**: Send the email using the default email client on your local machine (for example, Microsoft Outlook). The name of this option may be customized for your organization.

NOTE: This option is not available if you use Axiom Capital Tracking on a shared client server.

- Axiom Mail Service: Send the email using the Axiom Capital Tracking Scheduler email service.
- 5. Complete the following **Snapshot Options** in the dialog:

Option	Description
Send file as	Select XLS, XLSX, XLSM, or PDF. XLSX is selected by default.
	NOTE: PDF is not available in the Axiom Capital Tracking Windows Client.
Include	 Select one of the following: Entire Workbook: All sheets are included in the snapshot (except Control Sheets and hidden sheets, which are always removed). Active Worksheet Only (default): Only the active worksheet is included in the
	 Active Worksheet Only (default): Only the active worksheet is included in the snapshot.

Option	Description
Formulas	 Convert All Formulas (default): All formulas are converted to values. Retain Excel Native Formulas: Axiom formulas are converted to values, but Excel formulas are left as is.
	If an Excel formula references a sheet that is not included in the snapshot, that formula will be converted to a value.
	NOTE: If the file contains a pivot table, this option must be selected in order for the pivot table to work in the snapshot copy. This option does not apply if PDF is the selected file type.

6. Click OK.

If you selected to send the file using your default email client, then a new email message opens, with the snapshot file attached. You can then specify the recipient, subject, and body text for the email, and then send it.

If you selected to send the file using the Axiom mail service, then an **E-Mail** dialog opens so that you can specify the recipient, subject, and body text for the email. In the address fields (**To, Cc,** and **BCC**), you can type an email address or click the button to select an Axiom Capital Tracking user. If you select a user, the email is sent using the user's email address as defined in Axiom security. When you click **OK**, the email settings are saved to the database, to be sent the next time the Scheduler SMTP Email Delivery task is run.

Emailing a hyperlink to an Axiom file

You can email a hyperlink to an Axiom Capital Tracking file using the E-mail feature on the Main tab. Axiom Capital Tracking creates a URL hyperlink to the file and includes it in an email. The email recipient can click on the link to launch the system and open the file directly, assuming that the recipient is an Axiom Capital Tracking user who has rights to access the file.

NOTE: The email hyperlink feature is not supported for use with the Axiom Capital Tracking shared client.

You can send the email using your default email client (such as Microsoft Outlook), or you can send the file using the Axiom Capital Tracking Scheduler email service. For example, you may be using Axiom Capital Tracking on a shared client server where you do not have access to a local email client, and therefore you would use the system's email service to send the email.

NOTE: The Scheduler email service does not support HTML format for email.

If you use the Scheduler service, the email message is sent the next time the Scheduler SMTP Email Delivery task is run. The frequency of Scheduler email delivery depends on how this task has been configured in your environment, but typically it runs continuously (or close to it).

Note the following:

- Alternatively, you can obtain a URL to an Axiom file using a variety of ways and then paste it into an email that you create manually. For example, you can use GetDocumentHyperlink or right-click a file in Axiom Explorer to obtain a URL. The email hyperlink feature is provided as a convenience to quickly send a hyperlink to the current file.
- The email hyperlink feature cannot be used to send a hyperlink to open a form-enabled file as a form; the source file is always opened as a spreadsheet.
- The hyperlink included in the email uses the same format as hyperlinks generated using GetDocumentHyperlink, including the differing URL format for systems using SAML or OpenID Authentication.

To email a hyperlink to an Axiom file:

- 1. Open the file in Axiom Capital Tracking.
- 2. On the Main ribbon tab, in the File Output group, click Publish > E-mail Workbook.
- 3. In the Email Active Workbook dialog, for Send As, select Document Link.

E-mail Active	Workbook	?	×
Send a sr	napshot of or a document link to Initiative Detail.xlsx.		
Send As: ○ S ● D	napshot Send using: Outlook locument Link O Axiom Mail Serv	ice	
Snapshot Optic	ons:		
Send file as:	XLSX - Microsoft Excel Worksheet (.xlsx) $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		
Include:	 Active Worksheet Only Entire Workbook 		
Formulas:	 Convert All Formulas Retain Excel Native Formulas 		
Document Link	Options:		
Sheet Filter:			7
Cell Address:	ОК	Canc	el

- 4. For Send using, select one of the following::
 - **Outlook**: Send the email using the default email client on your local machine (for example, Microsoft Outlook). The name of this option may be customized for your organization.

NOTE: This option is not available if you use Axiom Capital Tracking on a shared client server.

- Axiom Mail Service: Send the email using the Axiom Capital Tracking Scheduler email service.
- 5. Optional. Complete the following **Document Link Options** in the dialog:

Option	Description
Sheet Filter	If desired, enter a filter to apply to the file when it is opened. You can type the filter statement or use the Filter Wizard.
	The filter is applied like a Quick Filter and affects any data queries in the file. For example, Dept.Region='West' means that all data queried is limited to the West region.
	If desired, you can specify a table or table type to apply the filter to, using the same filter syntax that is available for the GetDocumentHyperlink function. In this case you must manually type the filter syntax because the Filter Wizard does not account for this type of syntax.
Cell Address	If desired, specify the cell to be made active when the document is opened. For example: Sheet1!D22
	If the specified location would not be in view normally then the file will be scrolled to that location; otherwise the file will open in its default view with the cursor placed at that location.

6. Click OK.

If you selected to send the hyperlink using your default email client, then a new email message opens, with the hyperlink included in the body text. You can then specify the recipient, subject, and additional body text for the email, and then send it.

If you selected to send the hyperlink using the Axiom email service, then an **E-Mail** dialog opens so that you can specify the recipient, subject, and additional body text for the email. In the Address fields (**To**, **CC**, and **BCC** fields, you can type an email address or click the button to select an Axiom Capital Tracking user. If you select a user, the email will be sent using the user's email address as defined in Axiom security. When you click **OK**, the email settings are saved to the database, to be sent the next time the Scheduler SMTP Email Delivery task is run.

Rolling Forward to a new capital budget year

To roll forward from one year to the next, complete the following steps:

Step 1: Create a new file group

Step 2: Configure the new file group for next year's planning cycle

Step 3: Confirm configuration of Axiom Capital Tracking for next year's planning cycle

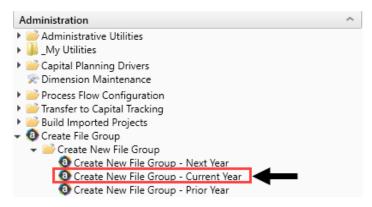
Step 4: Configure security for the new file group

Step 5: Run the CP Annual Rollforward utility

Step 1: Create a new file group

To create a new file group:

1. In the Cap Plan Admin task pane, in the Administration section, click Create File Group > Create New File Group, and double-click Create New File Group - Next Year.



2. In the New File Group Year field, type the year to assign the new file group, and click Next.

- 3. In the General Properties dialog, click Finish.
- 4. The system then displays a list of the tables it will create as part of the new file group for the next year. To continue, click **OK**.

TIP: The table names include the next year somewhere in the file name.

Confirmation	>
CP2019_Category_WEB (clo CP2019_ConstraintAlloc_WEB CP2019_ConstraintCalc_WEB CPComments2019_WEB (clo CPData2019_WEB (clo CP2019_Defaults_WEB (clo CP2019_DiscountRate_WEB (CPREQ2019_WEB (clo CP2019_MEX_WEB (clo CP2019_PickLists_WEB (clo CP2019_PickLists_WEB (clo CP2019_PickLists_WEB (clo CP2019_PictGroup_WEB (CP2019_ProjectGroup_WEB (CP2019_ProjectType_WEB (clo CP2019_PurchasePeriod_WEE CP2019_SummaryInputs_WEI CP2019_SummaryInputs_WEI CP2019_TextFields_WEB (clo CP2019_TextFields_WEB (clo	ed from CPAdditionalSheet) oned from CP_Assumptions) oned from CP_BusinessPlan) B (cloned from CP_CapQuestions) ed from CP_CapQuestions) ed from CP_ConstraintAlloc) cloned from CP_ConstraintAlloc) cloned from CP_ConstraintAlloc) cloned from CP_ConstraintAlloc) cloned from CP_ConstraintAlloc) oned from CP_ConstraintAlloc) drom CPData) ed from CPDAtANI) ed from CP_Defaults) oned from CP_Defaults) oned from CP_Defaults) d from CP_Matrix) d from CP_Matrix) d from CP_PickLists) ed from CP_ProjectToroup) ned from CP_ProjectToroup) ned from CP_ProjectToroup) (cloned from CP_PurchasePeriod) d from CP_SetUp) (cloned from CP_Templates) ed from CP_TextFields)
	OK Cancel

NOTE: This may take a few minutes to complete.

- 5. The system displays a confirmation prompt that the file group saved successfully. Click **OK**.
- 6. In the Edit File Group dialog, to continue creating the file group, click OK.

IMPORTANT: Do NOT make changes to any of the fields in this dialog. If you click **Cancel**, the system will not create the file group.

- 7. In the Cap Plan Admin task pane, double-click Create New File Group Current Year, and repeat Steps 3-5.
- 8. In the Cap Plan Admin task pane, double-click Create New File Group Prior Year, and repeat

Steps 3-5.

- 9. Close and then re-open the Cap Plan Admin task pane.
- 10. After the file group is created, the system runs the RefreshDocumentListHandler Scheduler job that saves the default Kaufman Hall information to the Default Data driver. For this step, do the following to check that the job runs successfully:
 - a. In the Admin ribbon tab, click Scheduler.
 - b. Click Job Results.
 - c. Check that Success displays in the Status column.

Job Service					
Scheduled Event File Remote Data Job Servers Jobs Handlers Watchers Connections Results	Refresh Actions				
	Actions				
Scheduled Jobs 📱 Result History					
ID Job	User	Status	Server	Start Time	Duration
324 RefreshDocumentListHand	ller osamaras	Success	SKHCSC02	3/14/2018 15:06	00:00:21
16 KH_Updal	admin	Success	SKHCSC02	3/14/2018 15:02	00:00:54

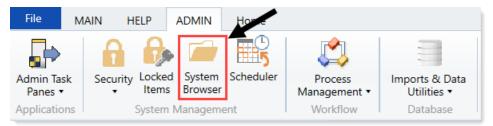
Proceed to Step 2: Configure the new file group for next year's planning cycle.

Step 2: Configure the new file group for next year's planning cycle

After the Axiom Capital Planning update is installed, complete the following steps to set up the new file group for the next year's capital planning cycle.

To configure the new file group for next year's planning cycle:

1. In the Admin ribbon tab, in the System Management group, click System Browser.



2. In Axiom Explorer, select the File Group Aliases folder, and double-click CP_CurrentYear_Web.

Axiom Explorer					
🔇 🕥 🍺 \Axiom\File Groups	\FileGro	upAliases			0
File - View -					
My Files	^ ^	Alias Name	File Group Name	Description	
★ Favorites		BP_CurrentYear	Budget-2017	The File Group associated with the current year's budget plan.	
Recent		BP_NextYear	Budget-2018	The File Group associated with the next year's budget plan.	
腸 My Documents		BP_PriorYear	Budget-2016	The File Group associated with the prior year's budget plan.	
File Groups	^	CM_CurrentYear	🐼 Cost Management-2016	Cost Management Current Year File Group	
🃗 File Group Aliases		CM_NextYear	Cost Management-2017		
Budget-2016		CP_CurrentYear_Web	🖾 CapitalPlanning-2018		
Budget-2017		CP_NextYear_Web	CapitalPlanning-2019		
Budget-2018		CP_PriorYear_Web	🐻 CapitalPlanning-2017		
 Capital Tracking-Projects Capital Tracking-Purchase Rec 		CT_Projects_Web	🔯 Capital Tracking-Projects		
Capital Planning-2017	uests	CT_PurchaseRequests_Web	🔯 Capital Tracking-Purchase Requ		
CapitalPlanning-2018		FP_CurrentYear	🔯 Financial Planning-2017	The File Group associated with the current year's financial plan.	
CapitalPlanning-2019		FP_NextYear	Financial Planning-2018	The File Group associated with next year's financial plan.	
Cost Management-2016		FP_PriorYear	🐻 Financial Planning-2016	The File Group associated with the prior year's financial plan.	
Cost Management-2017					
Costing					

3. In Axiom Explorer, select the File Group Aliases folder, and double-click CP_CurrentYear.

Axiom Explorer				?	×
🕒 🌖 🏂 🖓 Axiom\File Groups\FileGroupAliases					C
File 🔹 View 👻 🔛 Edit					
My Files	Alias Name	File Group Name	Description		
★ Favorites	BP_CurrentYear	Budget-2016	The File Group associated with the current year's budget plan.		
Recent	BP_NextYear	Budget-2019 (PROTOTYPE)	The File Group associated with the next year's budget plan.		
🕌 My Documents	BP_PriorYear	🐻 Budget-2016	The File Group associated with the prior year's budget plan.		
File Groups	CM_CurrentYear	🔯 Cost Management-2018	Cost Management Current Year File Group		
🖟 File Group Aliases	CM_NextYear	🔯 Cost Management-2018			
Budget-2016	CP_CurrentYear	Capital Planning-2018	The File Group associated with the current year's capital plan.		
Budget-2017	CP_CurrentYear_Web	🖅 CapitalPlanning-2018 (PROTOT)			
Budget-2019 (PROTOTYPE) (Budgeting V1)	CP_NextYear	🔯 Capital Planning-2019	The File Group associated with next year's capital plan.		
Capital Planning Forms OLD	CP_NextYear_Web	CapitalPlanning-2018 (PROTOT)			
Capital Planning-2017	CP_PriorYear	🔯 Capital Planning-2017	The File Group associated with the prior year's capital plan.		
Capital Planning-2018	CP_PriorYear_Web	🔯 CapitalPlanning-2018 (PROTOT)			
Capital Planning-2019	CT_Projects	😰 Capital Tracking-Projects	The File Group associated with the projects in Capital Tracking.		
Capital Tracking-Projects	CT_Projects_Web	Capital Tracking-Projects_V1			
😨 Capital Tracking-Projects_V1 (Capital Tracking - F	CT_PurchaseRequests	🔯 Capital Tracking-Purchase Requ	The File Group associated with the purchase requests in Capital Tracking.		
Capital Tracking-Purchase Requests	CT_PurchaseRequests_Web	🔯 Capital Tracking-Purchase Requ			

- 4. In the Edit File Group Alias dialog, next to the File Group field, click the folder icon.
- 5. In the Choose File Group, select the new file group to use for next year, and click OK.
- 6. Repeat Steps 2-5 for the following:
 - **CP_PriorYear_Web** Select the file group alias to use for the prior year's planning cycle.
 - **CP_NextYear_Web** Select the file group alias to use for the next year's planning cycle.
 - **CP_PriorYear** Select the file group alias to use for the prior year's planning cycle.
 - **CP_NextYear** Select the file group alias to use for the next year's planning cycle.
- In Axiom Explorer, expand the selection for the most recent file group used, and click Utilities > Process Flow Configuration.

Axiom Explorer	
🔇 🕥 🏂 🖓 Axiom\File Groups\CapitalPlanni	ng-2019
File 🔹 View 👻 🔛 Edit 🛛 😰 Clone	🗈 Manage Restore Points 🛛 🖻 Restore Plan Files
My Files	Name
☆ Favorites	Calc Method Libraries
Recent	Drivers
My Documents	Plan File Attachments
File Groups	Plan Files
퉬 File Group Aliases	Process Definitions
Budget-2016	Templates
• 2 Budget-2017	Utilities
 Budget-2019 (PROTOTYPE) (Budgeting V1) Capital Planning Forms OLD 	
Capital Planning Forms OLD	Workflow
Capital Planning-2017	
Calc Method Libraries	
Drivers	
Plan File Attachments	
Plan Files	
Process Definitions Templates	
 Utilities 	
Process Flow Configuration	
Workflow	
Scenarios	

8. Right-click the Process Flow Step Ownership workbook, and click Export Without Refresh.

					? ×
2017\Utilities\Process Flow Configurat	ion				8
Na	ame	Modified	Locked By	Size	Туре
CP Process Flow Manual Assign	nent	7/22/2016 11:46 AM		82 KB	Microsoft
CP Process Flow Step Ownership	0	7/8/2016 9:18 AM		106 KB	Microsoft
C C C C C C C C C C C C C C C C C C C	ypen Read Only Dpen Without Refresh Document history Dut Jout Sename Delete Sport System Sport Without Refresh Sopy shortcut to clipboard Sopy document path to clipboard did to Favorites				
	Ni I CP Process Flow Manual Assign CP Process Flow Step Ownership C C C C C C C C C C C C C C C	2017\Utilities\Process Flow Configuration Name Image: CP Process Flow Manual Assignment Image: CP Process Flow Step Ownership Image: CP Pro	Name Modified Image: CP Process Flow Manual Assignment 7/22/2016 11:46 AM Image: CP Process Flow Step Ownership 7/8/2016 9:18 AM Image: CP Process Flow Step Ownership 7/8/2016 9:18 AM Image: CP Process Flow Step Ownership 0pen Open Read Only Open Without Refresh Document history Cut Copy Rename Delete Export Export Copy shortcut to clipboard Copy document path to clipboard Add to Favorites	Name Modified Locked By Image: CP Process Flow Manual Assignment 7/22/2016 11:46 AM Image: CP Process Flow Step Ownership Image: CP Process Flow Step Ownership 7/8/2016 9:18 AM Image: CP Process Flow Step Ownership Image: CP Process Flow Step Ownership 0pen Open Open Read Only Open Without Refresh Image: Document history Image: Document history Cut Copy Rename Delete Export Image: Export Export Copy shortcut to clipboard Add to Favorites Add to Favorites Image: Comparison of the clipboard	2017/Utilities/Process Flow Configuration Name Modified Locked By Size Image: CP Process Flow Manual Assignment 7/22/2016 11:46 AM 82 KB Image: CP Process Flow Step Ownership 7/8/2016 9:18 AM 106 KB Image: Open Open 0 Open Read Only Open Nithout Refresh 0 Document history Cut Copy Rename Delete Export Export Export Without Refresh Copy document path to clipboard Add to Favorites Add to Favorites Image: Copy document path to clipboard

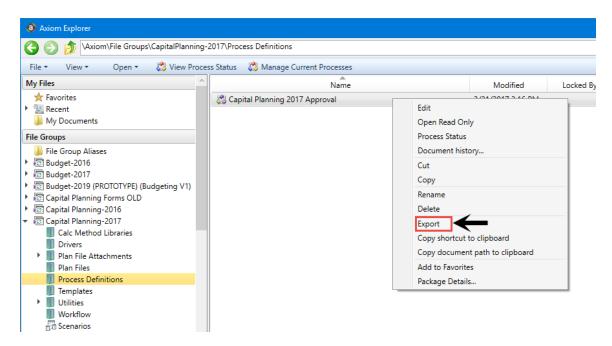
- 9. Save the CP Process Flow Step Ownership workbook to your computer or any network folder.
- 10. In Axiom Explorer, expand the selection for the next year's file group, and select the Utilities > Process Flow Configuration folder.

Axiom Explorer		
🚱 📀 🏂 \Axiom\File Groups\CapitalPlanni	ng-	2018\Utilities\Proc
File • View •		
My Files	^	
★ Favorites ★ Eacent ↓ My Documents		CP Process I CP Process I
File Groups		
 File Group Aliases Budget-2016 Budget-2017 Budget-2019 (PROTOTYPE) (Budgeting V1) Capital Planning Forms OLD Capital Planning-2016 Capital Planning-2017 		
 Image: Capital Planning-2018 Calc Method Libraries 		
Drivers		
Plan File Attachments		
Plan Files		
Process Definitions		
Templates		
▼ Utilities		
Workflow		
Scenarios		
Capital Planning-2019 Capital Tracking-Projects Canital Tracking-Projects V1 (Canital Tracking)	~	<

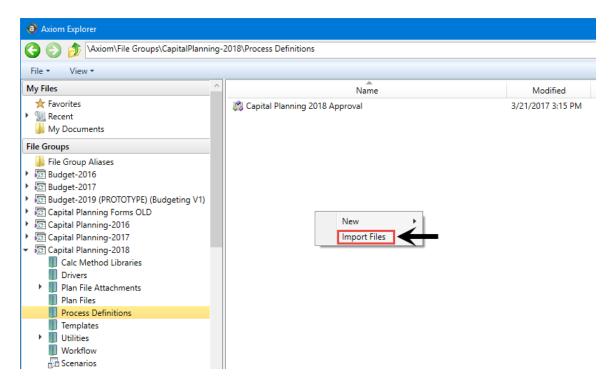
11. Right-click on any blank white space, and select Import Utilities.

Axiom Explorer	
🔇 ゔ 🏂 🖓 (Axiom\File Groups\CapitalPlanning	-2018\Utilities\Process Flow Configuration
File • View •	
My Files ^	Name
★ Favorites	CP Process Flow Manual Assignment
 Recent My Documents 	CP Process Flow Step Ownership
File Groups	
 File Group Aliases Budget-2016 Budget-2017 Budget-2019 (PROTOTYPE) (Budgeting V1) Capital Planning Forms OLD Capital Planning-2016 Capital Planning-2017 	
 Capital Planning-2018 Calc Method Libraries Drivers Plan File Attachments Plan Files Process Definitions Templates 	New
✓ Ⅲ Utilities	Import Utilities
Process Flow Configuration	
Workflow	
🗄 Scenarios	

- 12. Browse your computer, and select the CP Process Flow Step Ownership workbook that you recently exported.
- 13. At the Confirmation prompt, click Yes.
- 14. In Axiom Explorer, expand the selection for the most recent file group used, and click **Process Definitions > Process Flow Configuration**.
- 15. Right-click the Capital Planning 20XX Approval definition, and select **Export**.



- 16. Save the Capital Planning 20XX Approval Process to your computer or any network folder.
- 17. Go to the file that was exported on your computer/network, and change the name of the file to increase the year by one. For example, change Capital Planning 2017 Approval to Capital Planning 2018 Approval.
- 18. In Axiom Explorer, expand the selection for the next year's file group, and select the **Process Definitions** folder.
- 19. Right-click on any blank white space, and select Import Files.



- 20. Browse your computer, and select the Capital Planning 20XX Approval Process that you recently exported and renamed.
- 21. At the Confirmation prompt, click Yes.
- 22. In Axiom Explorer, right-click the new file group, and click Edit.

File Groups		^
File Group Aliases		
ARP WEB V1 (ARP WEB V	1)	
Budget-2016		
Budget-2017		
Budget-2018		
 Budget-2019 		
Budgeting V1 (Budgeting)	V1)	
Budgeting V2 (Budgeting)	V2 Retired)	
Budgeting V3 (Budgeting)	V3)	
🕨 🚾 Budgeting V4 (Budgeting	V4)	
🕨 🜆 Budgeting V5 (Budgeting	V5)	
Capital Planning WEB V1	(Capital Planning WEB V1)	
🕨 🜆 Capital Planning-2016		
Image: Capital Planning-2017		
🕨 🔯 Capital Planning-2018		
🕨 🐼 Capital Planning-2019		
Capital Planning-2020		
Image: Capital Planning-202	New	+
Capitel Discoine 😂	Edit	
Capital Planning-202	Clone	
Capital Tracking-Proj		
🕨 🔯 Capital Tracking-Proj	Restore Plan Files	
🕨 🔯 Capital Tracking-Proj	Manage Restore Points	
Capital Tracking-Pure	Create Scenario	
Capital Tracking-Pure	Delete	se F
Capital Tracking-Pure	Add to Favorites	
Cost Management-2		

23. In the Edit File Group dialog, in the Process Options > Plan File Process field, click Browse .

Edit File Group		? >
C Edit properties	s for File Group 'Capital Planning-2020'.	
File Group Options	Variables Display Columns Web Configuration Triggers	
Default Template	Plan File Options on of Plan Files from Templates CapProjectMaster20 ✓ □ Use Virtual Plan Files	
Template Column	RebuildTemplate Process Plan Files with Utilitie Show On List Column ShowOr	
Notification Option Default Notification Notification Addres	n Address	
Process Options Plan File Process		Browse X
On Demand Option	s Add a New Capital Request	
Add File Form Clone File Form	NewRequestForm.xlsx	Browse 🔀
	Apply	OK Cancel

24. In the Axiom Explorer: File Groups dialog, select the newly imported process, and click Open.

File • View • Open		nning-2020\Process Definitio						6
File Groups		Name	Modified	Locked By	Size	Туре	Modified By	D
File Group Aliase Capital Planning-2020 Process Definitions	23 Cap	ital Planning 2020 Approval	(7/24)2019 3:01 AIM		24 KB	AXP File	ASDadmin	

- 25. In the Edit File Group dialog, click OK.
- 26. In Axiom Explorer, navigate to the file group that includes the new Capital Planning 20XX Approval Process you just imported, and double-click it.

Ŧ	🚾 Capital Planning-2020
	🗀 Open Plan Files
	🕍 Create Plan Files
	🕞 Process Plan Files
	Templates
	Drivers
	Utilities
	 Process Definitions
	📖 Capital Planning 2020 Approval
	Scenarios

27. On the right side of the dialog, click **Start Process** to enable the workflow in the system.

	ss is currently inactive.	Start proces
rocess Properti	ies Process Steps Notifications Web Configuration	
Process Name	Capital Planning 2020 Approval	
Display Name	Capital Planning 2020 Approval	
Description		
Process Ov	wner Capital Planning Admin Select User Select Role	
Configuration	1 Properties	
✓ Allow ste	ep owners to see all steps in the process task pane	
🔠 Default P	Process Assignment <pre></pre>	
Defects 0	Rejection Behavior Return to the previous step	
Ge Default P		
Go Default F		
On Demand P	Properties	
On Demand P	Properties borting plan file processes by assigned users at specified approval steps	
On Demand P		

28. At the Confirmation prompt, click **OK**.

Proceed to Step 3: Confirm configuration of Axiom Capital Tracking for next year's planning cycle.

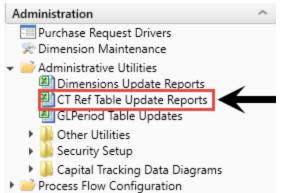
Step 3: Confirm configuration of Axiom Capital Tracking for next year's planning cycle

There are two worksheets in the CT Ref Table Update Reports workbook that - while not drivers themselves - are functionally similar. Each of these worksheets allow you to select the fields that a user is required to complete to submit a purchase request.

NOTE: Your organization normally updates this table at the beginning of each fiscal year.

To configure capital tracking for next year's planning cycle:

1. In the Cap Track Admin task pane, in the Administration section, click Administrative Utilities, and double-click CT Ref Table Update Reports.



- Build Imported Projects
- 2. Select the SUITEVARIABLES worksheet, and update the **CapTrackYr** to the current fiscal year. You should only make this update after the new fiscal year begins.

KH Home CT Re	f Table Updates X	
Capital Tra	cking Variables	Update Utility
Variable	Description	Parameter
CapTrackYr	Capital Tracking Active Year	2017
OeliverTo	UofM Items SUITEVARIABLES	(+)

3. To update the Capital Tracking Active Year in the system, click Save.

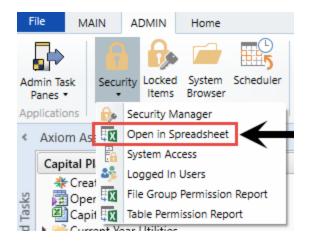
Proceed to Step 4: Configure security for the new file group.

Step 4: Configure security for the new file group

You do not need to update the security for the user filters, but you do need to update the security for the new file group added with the installation.

To configure security for the new file group:

1. In the Admin ribbon tab, in the System Management group, click Security > Open in Spreadsheet.



2. In the **Open Security in Spreadsheet** dialog, select the **File Groups** check box, and unselect all other check boxes, and then click **OK**.

Open Security in Spreadsheet	?	×
Present users and roles: \odot Horizontally \bigcirc Vertically		
Select items to include:		
 File Groups Tables Table Types Permissions 		
Filter users		
ОК	Cano	el

3. Set up the new file group security with the same settings and user filters used for the previous file group. Copy the entire row from the previous file group, and paste to the same row for the new file group.

[file access level] = Read

[calc method permission] = Insert

[interacts with process management] = TRUE

[access filter, ignored if all plan files] = should be the same as previous File Group

	CapitalPlanning-2018 [modify file group]	FALSE
	CapitalPlanning-2018 [create plan files]	FALSE
	CapitalPlanning-2018 [create new records]	FALSE
	CapitalPlanning-2018 [process plan files]	FALSE
	CapitalPlanning-2018 [run Axiom Queries]	FALSE
	CapitalPlanning-2018 [manage calc methods]	FALSE
	CapitalPlanning-2018 [file access level]	Read
	CapitalPlanning-2018 [save data]	FALSE
	CapitalPlanning-2018 [unprotect]	FALSE
	CapitalPlanning-2018 [calc method permission]	Insert 🔶
	CapitalPlanning-2018 [sheet assistant]	FALSE
	CapitalPlanning-2018 [file processing assistant]	FALSE
	CapitalPlanning-2018 [interacts with process management]	
ļ	CapitalPlanning-2018 [all plan files]	FALSE
	CapitalPlanning-2018 [access filter, ignored if all plan files]	\leftarrow
ľ	CapitalPlanning-2018 [role inheritance mode]	Independent
	CapitalPlanning-2018 [inherit role, blank means all]	

4. After you are done making changes, in the Main ribbon tab, click Save.

Proceed to Step 5: Run the CP Annual Rollforward utility.

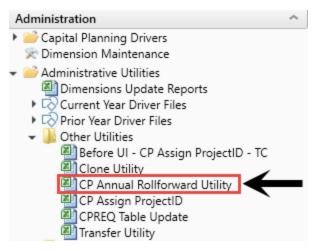
Step 5: Run the CP Annual Rollforward utility

Use this utility to copy all driver file settings and configurations to the next planning year.

IMPORTANT: Saving the data after you run this utility will overwrite existing data in the CP_Next Year file group drivers. Be sure that you have performed the previous roll forward instructions before saving this report.

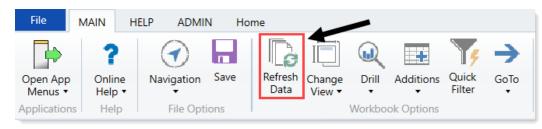
To run the CP Annual Rollforward utility:

 In the Cap Plan Admin task pane, in the Administration section, click Administrative Utilities > Other Utilities, and double-click CP Annual Rollforward Utility.



2. Refresh the data by doing one of the following:

• In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 3. Verify that the data loaded correctly.
- 4. When you are ready to save the data to the database, in the Main ribbon tab, click Save.

File	MAIN	HELP	ADMIN	N Ho	ome					
Open App Menus •			O avigation	Save	Refresh Data	Change View •	Drill	Additions	Quick Filter	→ GoTo
Application	ns Hel	р	File Opti	ons		1	Workboo	ok Options		

Managing System Administration

This section includes topics related to system administration tasks for Axiom Capital Tracking.

Working with Dimensions

Dimensions represent the key index fields for the Axiom Software database. All data in the system is associated with one or more dimensions. When first implementing Axiom Capital Tracking, a Kaufman Hall Implementation Consultant helps you configure the dimension tables to reflect the structure and processes of your organization.

A few examples of dimension tables include:

- **DEPT** Similar to Entity, the DEPT dimension table contains records for each department within an organization (For example, radiology, emergency, finance, and so on).
- **CAPACCT** The CAPACCT dimension table contains records for capital GL accounts used in capital planning calculations.
- **PAYOR** The PAYOR dimension table includes records for records to be used in capital planning pro forma templates.
- **CODE** The CODES dimension table contains records for storing back input fields in both pro forma and summary plan files.
- VENDOR The VENDOR dimension table contains vendor records to be used in both Capital Planning and Capital Tracking for both purchasing and reporting. While this table is not truly a dimensions table, it is heavily utilized in Capital Tracking and therefore warrants a specific call out as tables that must be maintained.

Working with the Dimension Maintenance utility

Your organization may use multiple distinct Entity Management branches within your structure to help manage your Axiom Software products. It might be the responsibility of each local product administrator to maintain their own elements within dimensions for each Axiom Software product that your organization is licensed for. Additionally, and ideally, each administrator should not be able to modify elements outside of their area, otherwise, reports and processes could be negatively impacted. The Dimension Maintenance utility allows the administrator for a local branch to manage only grouping columns within a dimension and limits this dimension to only the elements that the administrator has access to.

IMPORTANT: Version 2017.1 and higher includes a variety of security changes to enable this tool. The dimension tables have been restricted to read-only access until the system administrator configures a user for dimension maintenance security. For more information, see Editing the security rights for a user.

The Dimension Maintenance utility allows administrators to:

- Have multi-user and filtered access to key universal dimensions.
- Restrict dimension grouping column maintenance to specified product grouping columns.
- Create dimension grouping columns, and assign them to products.
- Add new records and update all validated grouping columns, even when they are outside of that product range.
- Create dimension grouping columns that automatically display in an organized manner.

To enable the Dimension Maintenance functionality described above, the following features were created:

- In the Edit Data Structure mode, administrators can manage grouping columns using datasets.
- In the Dimension Maintenance utility, depending on their roles, users can select the products and dimensions to maintain.
- Using the security feature in the Dimension Maintenance utility, for each product, administrators can quickly assign write filters to those users who have an administrator role assigned to them.

The following table represents which dimensions are part of each product. A check mark means users can access the dimension using the Dimension Maintenance utility, but the records each user can edit depends on the security filter applied to each.

	Management Reporting Admin	Budgeting Admin	Rolling Forecast Admin	Capital Planning Admin	Capital Tracking Admin	Cost Management Admin	Costing Admin	DSS Admin	Financial Plan Admin
ACCT		4	4			4	4		4
CDMCode	4	4					4	4	
COSTCAT							4	4	
COSTITEM							4	4	
COSTMETHOD							4		
COSTPOOL							4	4	
CPT	4	4					4	4	
DATATYPE	4	4							
DEPT	4	4	4	4	4	4	4	4	4
ENTITY	4	4	4	4	4	4	4	4	4
FINCLASS	4	4						1	
ICATEGORY						4			
INSPLAN							4	4	
IRESULTS						4			
ITYPE						4			
JOBCODE	4	4				4	4		4
LOCATION	4	4					4	4	
METRICID						4			
PAYTYPE	4	4				4	4		
PROVIDER	4	4					4	4	
REVCODE							4	4	
RFCODE			4						4
RFGROUP			4						4
YRMO							4	4	

The following dimension tables are not affected by this update and are not part of the Dimension Maintenance utility. Each of these dimensions retain:

- Full edit rights, per authorized user.
- Ability for direct table edit.
- Leverage existing edit tools as you have used in the past.

CalDate
CAPACCT
CODE
CPREQ Identity
CTReq
GLPeriod
GlobalSet
INITIATIVEID
MODEL
NODE
NODE_TYPE
PAYOR
POTrans
RFID
SCENARIO
Vendor

Configuring the Dimension Maintenance utility

To configure the Dimension Maintenance utility, do the following:

- 1. Configure the utility to assign any custom dimension grouping column to their respective products. For more information, see Assigning an existing grouping column to a dataset (product).
- Configure the security for each administrator user in the utility. You must apply a dimension filter to any member that you want to have edit rights. If NotConfigured displays, then the user does have edit ability. A filter grants users edit abilities for those records within the assigned filter. For more information, see Editing the security rights for a user.
- 3. Review and test the Dimension Maintenance utility.

Editing the security rights for a user

You can only access the security management feature of the Dimension Maintenance utility if you are assigned the security administrator role.

With Dimension Maintenance - Security, you can set in bulk the security rights for all users assigned a product administrator role for all dimensions for a specific dataset (product).

NOTE: If a user is assigned as an administrator for a product and as a user for another product, the user can only access the tables for the product they are administrator of. For example, if a user is a product administrator for Axiom Cost Accounting and a user for Axiom Budgeting and Performance Reporting, the user would only be able to edit the dimensions for Axiom Cost Accounting.

IMPORTANT: For a user (with a product administrator role) to edit a dimension, you must first assign them security rights using this utility.

To edit the security rights for a user:

- 1. From the Explorer task pane, in the Reports Library section, select System Files > Dimension Maintenance, and double-click Dimension Maintenance Security.
 - 👻 闄 System Files
 - BudgetIncomeSummary Drills
 - CostDrills
 - Dimension Maintenance
 Dimension Maintenance
 Dimension Maintenance -Security
- 2. In the **Select a Product** drop-down, select the product to display the respective product administrators, and click **OK**.

€	Refresh Variables	×
	Select a Product	
		-
4	BP - Budget Planning	ì
1	Cost - Cost Accounting	
	CP - Capital Planning	
L_	CT - Capital Tracking	
	DSS - Decision Support	17
	FP - Financial Planning	
	PR - Performance Reporting	
	RF - Rolling Forecast	

3. Select a user, and do one of the following:

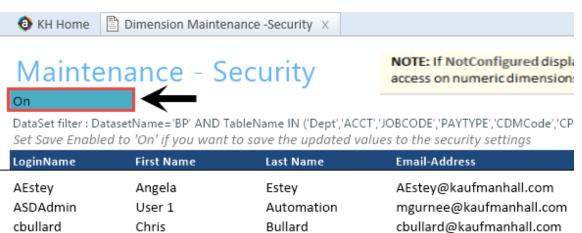
IMPORTANT: If **NotConfigured** displays in the cell, then the user does not have edit rights. For full edit access on numeric dimensions, enter >= **0**, for example Acct > **0**.

То	Then
Use the filter	a. Right-click the cell to edit.
wizard to specify the security	b. Select Axiom Wizards > Filter Wizards.
rights	 c. Use the Filter Wizard to select and specify the security rights for a product administrator. For more information on using the Filter Wizard, do the following: On the Main ribbon tab, click Help. ii. In the left navigation pane, click Reference > Filters > Filter Wizard.
Enter the security rights manually	Click in a cell, and type the rights.

In the following example, Angela is not authorized to edit the ACCT dimension. She can, however, edit the DEPT dimension records for departments that belong to Entity 2.

	led to 'On' if you wan First Name	t to save the updated Last Name	values to the security settings Email-Address	IsEnabled	IsAdmin	ACCT	
	led to 'On' if you wan	t to save the updated	values to the security settings				
	abiename in Oept, AO	CT, JUBCODE, PAYTYPE	,'CDMCode','COSTCAT','COSTITEM','COSTME	IHOD, COSIPOUL, C	PT, ENTITY, INSPLAN, LC	CATION, PROVIDER, REVCODE,	YRIVIO
On							
I Mainte	enance - Se	ecurity	NOTE: If NotConfigured displays in the c access on numeric dimensions, enter >=(fulledit	
	Dimension Maint						

4. In the **Maintenance - Security** table, at the top of the utility, **On** indicates saving will post changes to the database.



~

~

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.. ..

NOTE: The ability to save is initially enabled (On). Clicking **Save** on the **Main** ribbon tab posts any changes to the database.

5. In the Main ribbon tab, click Save.

Assigning an existing grouping column to a dataset (product)

You can associate each grouping column you create with multiple licensed products. The assignment determines which product each column gets displayed under within the Data Maintenance utility.

NOTE: You can only perform assignments for custom columns that your organization has added. We recommend that you do not change the assignments of any standard columns included with the product.

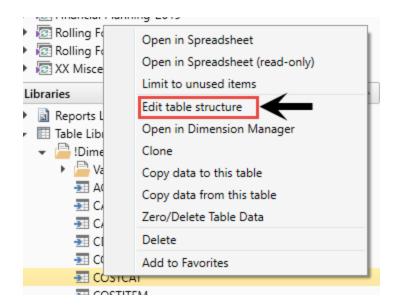
IMPORTANT: Make sure to define a default value entry for the column. To do this, complete steps 1-8 of Creating a grouping column.

To assign an existing dimension grouping column to a dataset (product):

1. From the Explorer task pane, in the Libraries section, click Table Library > !Dimensions.

Libraries	^
 Reports Library 	
Table Library	
🗸 🗁 !Dimensions	
Validation Tables	
ACCT	

2. Right-click a dimension, and select Edit table structure.



- 3. In the Edit Table dialog, click the Columns tab.
- 4. In the list of columns, select a column to assign, and click the Assign Column to Data Sets button.

0	Edit Table				?	×	
E	Edit the columns contained in table COSTCAT.						
General Table Properties Columns Aliases Sequences Calculated Fields							
	+ - × + + 💷 🗲	-					
[COSTCAT	1	Column Name	COSTCAT		-	
	Description		Description				
	ShortDescription		Data Type	String			
			Max String Length	15			
	DisplayOrder		Key Column	True			
	COSTPOOL		Lookup Column			- 1	
	DirectElse						

5. In the **Data Set Assignment** dialog, in the list of data sets (products) that have predefined for you, select the checkbox next to the products to assign this grouping column to, and click **OK**.

NOTE: The list that displays will vary depending on the Axiom Healthcare Suite products you are licensed to use.

Data Set Assignment	?	\times
Column Name: COSTCAT.COSTCAT		
FP FP		
BP		
RF		
Cost		
СМ		
СР		
DSS		
General		
СТ СТ		
D PR		
ОК	Can	cel

Product	Product Node
Budget Planning	ВР
Financial Planning	FP
Rolling Forecast	RF
Cost Accounting	Cost
Cost Management	СМ
Capital Planning	СР
Decision Support	DSS
Capital Tracking	СТ
Performance Reporting	PR
Available to all related products	General

General Table Properties Co	umns Aliases Se	quences Calcula	ted Fields
+ • 🗙 🛧 🗣 📳			
8 ACCT	🔺 🛛 Column Na	ame	ACCT
Description	Description	ר	Account Number
Credit	Data Type		Integer
Statement	Key Colum	n	True
	Lookup Co	lumn	
Туре	Hierarchy	Display Name	
FSSummary	Product Da	ata Sets	FP,BP,RF,Cost,CM,CP,DSS,Gene
FSDetail	Is Filter Co	olumn	True
FSPayor	Describes	Кеу	False
FSProvider	Column Cl	assification	Default (Dimension)

After you select the products, they display in the Edit Table dialog in the Product Data Sets field.

6. In the Edit Table dialog, click OK.

Managing dimensions

After you configure the Dimension Maintenance Utility and set the security rights for the appropriate users, they can access the utility from the Administrator task pane to manage and configure dimensions. The products and dimensions a user can access will vary depending on their role. As an administrator, you can select all of the Axiom Software products.

Many dimensions are shared across multiple Axiom Healthcare products, which you can edit using the Dimensions Maintenance Utility (as long as you have the proper permissions). However, some dimensions that are specific to Axiom Capital Tracking can only be modified using the Dimension Update Reports utility. These dimensions include the following:

- CAPACCT
- CODE
- PAYOR
- SUITEVARIABLES
- VENDOR

Creating a grouping column

Some dimension tables include grouping columns that allow data associated with those records to share common settings or be rolled up into larger groups for calculation or reporting purposes.

NOTE: If you created a custom grouping column in Axiom Capital Tracking version 2016.4 or earlier, you need to assign it to a data set (product). For instructions, see Assigning an existing grouping column to a dataset (product).

Here are a few guidelines for naming your columns:

- Keep the descriptions of grouping columns short and simple.
- Avoid using common English words in your grouping column names, such as Interface or Union. Instead, combine words to come up with column titles such as IntGroup.
- It is good practice to fill out each grouping column for every element (table row).
- Spaces are not allowed. Use the underscore to separate upper/lower case words.
- Grouping columns cannot start with a number, but they may include a number.

To create a grouping column:

- 1. In the Explorer task pane, in the Libraries section, click Table Library > !Dimensions.
- 2. Right-click the dimension table to add the grouping column to, and select Edit table structure.
- 3. In the Edit Table dialog, click the Columns tab.
- 4. Above the list of column names on the left side of the tab, click the + button.
- 5. In the **Column Name** field, type a name for the new column.

IMPORTANT: Use only alphanumeric characters in group column labels.

- 6. In the Data Type field, click the drop-down button, and select String.
- 7. In the **Default Value** field, type a default value that displays to the user.
- 8. Click Apply.
- 9. In the list of columns, select the column you just added.
- 10. Above the list of columns, click the Assign Columns to Data Sets button.
- 11. In the **Data Set Assignment** dialog, select the checkbox for any Axiom Healthcare Suite products to add to the column to, and click **OK**.
- 12. In the Edit Table dialog, click OK.
- 13. To view the new column, in the Main ribbon tab, click Refresh Data.

The new grouping column now displays in the dimension.

Editing a dimension

The Dimension Maintenance utility allows you to edit the grouping columns for one or more products, but the product options available to you depend on the role assigned to you. Axiom Financial Planning administrators have rights to Financial Planning dimensions, Axiom Capital Planning and Capital Tracking administrators have rights to Capital dimensions, and so on.

TIP: You never edit database tables directly in the database. Instead, data is pulled into spreadsheets, where you can edit the data and then subsequently save it back to the database.

The columns that display depend on what products each column is assigned to using the Data Set Assignment.

When editing dimensions, keep in mind the following:

- The products you select determine the columns you can view.
- The dimension you select determines the table you can edit.
- Your role determines the records you can edit.

Some dimensions are not included in the Dimension Maintenance utility. You can continue to access and modify these dimensions from the Axiom product's Admin task pane, as usual. If the dimension you open displays as read-only, this means that you need to use the Dimension Maintenance utility to modify it. For example, in Axiom Budgeting, when you open the DEPT dimension from **Bud Admin task pane > Budget System Maintenance > View Dimension Tables**, the tab displays DEPT R/O. Though you can view the dimension, you need to use the Dimension Maintenance utility to edit it. On the other hand, if you open the INITIATIVEID dimension, the tab does not display R/O. This means that you can modify the dimension as usual. This is because the INITIATIVEID table is not included in the list of tables that are maintained via the Dimension Maintenance utility. For a list of dimensions not included in the Dimension Maintenance utility, see the Overview section.

			2	-	
🔕 KH Home	III JOBCO	DDE (R/O)	INITIATIVEID ×		
A B	С	D	E	F	G
4 Data Typ 5 String Ler		Integer	String 50	String 20	String 25

IMPORTANT: Edit dimension data with extreme care, as any errors introduced could cause problems throughout the system. Do not modify fields not described in Axiom documentation.

After you select the product(s) and dimension to edit, the Dimension Maintenance utility refreshes itself and displays the different products and the columns that belong to them for the dimension. As seen in the following example, the columns display in groups.

TIP: It is not always necessary to populate every field. Enter as much information in the dimension table as you have available.

Maintenance

Dimension : PAYTYPE DataSet filter : (DataSetname IN ('General','BP') OR DataSetName = '')

	DataSetname IN ('General','BP') OR DataSetName = '')					
) the column is a	uplicate. Only the first instance will be saved back	General			BP	
ΡΑΥΤΥΡΕ	Description	PaySummary	🗁 PayDetail	🗁 FTE	🗁 Empl_Detail	🗁 KHAInt
P0001	Regular	Prod	🗁 Regular	🗁 Yes	C Z_Employee	🗁 JobCode
20004	Paid Time Off	NonProd	C NonProd	🗁 Yes	C Z_Employee	🗁 JobCode
0006	Sick Pay	NonProd	C NonProd	🗁 Yes	C Z_Employee	DobCode 🗁
8000	Jury Duty	NonProd	C NonProd	🗁 Yes	C Z_Employee	🗁 JobCode
90009	Education	Prod	C Regular	🗁 Yes	Z_Employee	🗁 JobCode
0011	Payroll Adjustments	Prod	C Regular	🗁 Yes	C Z_Employee	🗁 JobCode
0014	Personal Development	Prod	C Regular	🗁 Yes	Z_Employee	🗁 JobCode
0015	Med Tech Pay	Prod	C Regular	🗁 Yes	C Z_Employee	DobCode 🗁
0016	Extra Shift	Other	C Other	C No	C Z_Employee	🗁 Dollars
0019	Education	Prod	C Regular	🗁 Yes	C Z_Employee	🗁 JobCode
0020	Call Pay	Other	C Other	C No	C Z_Employee	🗁 Dept
0022	Call-Back	Prod	C Overtime	🗁 Yes	C Z_Employee	DobCode 🗁
0024	Sick Pay	NonProd	C NonProd	🗁 Yes	C Z_Employee	DoDdol 🗁
0028	PDO Cash-In	Other	C Other	C No	Z_Employee	C NA
0030	Additional Pay	Other	C Other	C No	C Z_Employee	🗁 Dept
0031	Retroactive Pay	Prod	C Regular	🗁 Yes	C Z_Employee	🗁 JobCode
0035	Hol/Fit Pool Bonus	Prod	C Regular	C No	C Z_Employee	C Dollars
0037	Suppl Staff-Hourly	Prod	C Regular	🗁 Yes	Z_Employee	🗁 JobCode
0039	Additional Pay	Other	C Other	C No	C Z_Employee	🗁 Dollars
0050	Recognition Pay	Other	C Other	C No	C Z_Employee	🗁 Dollars
0051	Sign On Bonus	Other	C Other	C No	C Z_Employee	🗁 Dollars
0054	Incentive Pay	Other	C Other	C No	Z_Employee	🗁 Dollars

In the blue cells, you can do the following:

• Choose from a list of validated values by double-clicking the folder in the column next to the grouping column.

General	
PaySummary	Ð
Prod	
NonProd	\bigcirc

• Enter free-form values, though we recommend that you take into consideration any existing values or rules for that column.

Grouping columns tagged as General display first, as shown in the previous example. General columns are typical reference fields leveraged by multiple products. Each subsequent grouping displays based on the products you selected. Records display depending on the security assigned to you. For example, if a no write filter is assigned for that member, the dimension will return no records. For more information, see Editing the security rights for a user.

IMPORTANT: If you are not sure whether to edit a cell, contact your system administrator.

Some columns in dimensions tables are validated, allowing only certain predefined values. If you enter an invalid value, an error will occur when you save, specifying the cell so you may make a correction and save again.

The following are examples of validated columns:

 RFCODE.RFStdLine – Used during the reporting process to identify the standard financial statement categories to use for each RFCode category. (Same as Acct.FSDetail in Axiom Management Reporting.) • **RFCODE.RFType** – Used during the forecast workbook interface process to define the categories within each model that an account or account group will be categorized into. (Similar to BudgetType in the traditional budget workbooks.)

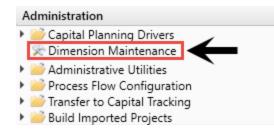
For more information, see Adding validations.

To edit a dimension:

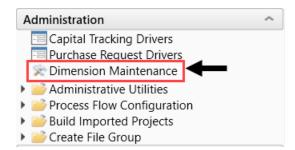
- 1. Launch the Dimension Maintenance Utility.
- 2. In the RF Admin task pane, in the Dimension Update section, double-click Dimension Maintenance.



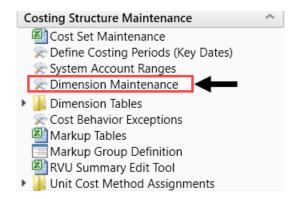
3. In the Cap Plan Admin task pane, in the Administration section, double-click Dimension Maintenance.



4. In the Cap Track Admin task pane, in the Administration section, double-click Dimension Maintenance.



5. In the Cost Accounting Admin task pane, in the Costing Structure Maintenance section, doubleclick Dimension Maintenance.



6. In the Refresh Variables dialog, do the following, and click OK:

a. In the Select The Product To Edit drop-down, select the product.

NOTE: The list of products that display is determined by the Axiom product licenses that your organization owns.

- b. In the Select a Dimension to Edit drop-down, select the dimension.
- c. In the **Optional Data Filter** field, do one of the following:
 - Type a filter syntax.
 - To select an existing filter or create a filter that you can save for later use, click Select Filter.
- 7. To retrieve a smaller subset of data, you can use the **Quick Filter** in the **Workbook Options** of the **Main** ribbon tab.

For detailed instructions on how to use the feature, see Applying a Quick Filter to a report.

- 8. Enter the dimension member attribute information in the appropriate cells. You can type a value in the cell free-form or select from a list of existing validated values. These are represented with a folder icon next to the grouping column. You can do one of the following to enter validated values:
 - Next to the column, double-click the folder icon. In the **Choose Value** dialog, select the value, and click **OK**.

Maintenance

Indiffic	chance				-
Dimension :	PAYTYPE				
DataSet filter : (I	DataSetname IN ('General','BP') OR DataSetName = '')				
(*) the column is d	uplicate. Only the first instance will be saved back	General			V
ΡΑΥΤΥΡΕ	Description	PaySummary	🗁 PayDetail	🗁 FTE	Ð
P0001	Regular	Prod	C Regular	🗁 Yes	C
P0004	Paid Time Off	NonProd	C NonProd	🗁 Yes	C
P0006	Sick Pay	NonProd	C NonProd	🗁 Yes	C
P0008	Jury Duty	NonProd	C NonProd	🗁 Yes	0
P0009	Education	Prod	🗁 Regular	🗁 Yes	0
P0011	Payroll Adjustments	Prod	🗁 Regular	🗁 Yes	0
P0014	Personal Development	Prod	C Regular	🗁 Yes	
P0015	Med Tech Pay	Prod	C Regular	🗁 Yes	C
P0016	Extra Shift	Other	C Other	C→ No	0
P0019	Education	Prod	🗁 Regular	🗁 Yes	0
P0020	Call Pay	Other	C Other	🗁 No	
P0022	Call-Back	Prod	C Overtime	🗁 Yes	0
P0024	Sick Pay	NonProd	C NonProd	🗁 Yes	0
P0028	PDO Cash-In	Other	C Other	No No	0
P0030	Additional Pay	Other	C Other	🗁 No	0

• If you have a large number of entries to make, instead of opening each folder, you can copy and paste the validated value to other cells in the same column.

Maintenance Dimension : PAYTYPE DataSet filter : (DataSetname IN ('General','BP') OR DataSetName = '') (') the column is duplicate. Only the first instance will be saved back					Copy validated value in cell	
(*) the column is duplicat	e. Only the first instance will be saved ba	ick		General		
ΡΑΥΤΥΡΕ	Description			PaySummar		Ð
P0001	Regular		\ \	Prod		
P0004	Paid Time Off	Deste te celle		NonProd		\simeq
P0006	Sick Pay	Paste to cells		NonProd		\simeq
P0008	Jury Duty			NonProd		\simeq

IMPORTANT: Do not change the format of cells in dimensions (e.g., number, date, percentage, and so on).

9. After you finish making your changes, in the Main ribbon tab, click Save.

NOTE: If a column is missing, then it is assigned to a different dimension or not assigned. For more information, see Assigning an existing grouping column to a dataset (product).

Adding a dimension record

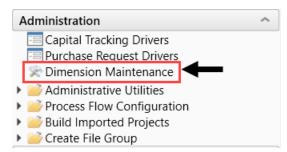
When you save the new dimension record, it displays in the existing table on the next utility refresh.

To add a dimension record:

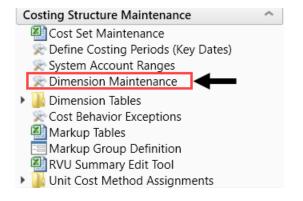
- 1. Launch the Dimension Maintenance Utility.
- 2. In the RF Admin task pane, in the Dimension Update section, double-click Dimension Maintenance.



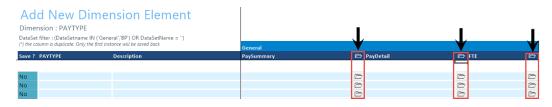
3. In the Cap Track Admin task pane, in the Administration section, double-click Dimension Maintenance.



4. In the Cost Accounting Admin task pane, in the Costing Structure Maintenance section, doubleclick Dimension Maintenance.



- 5. To select the product to add the new dimension record, do the following:
 - a. Press F9 or in the Main ribbon tab, in the Workbook Option group, click Refresh Data.
 - b. In the **Refresh Variables** dialog, from the **Select The Product To Edit** drop-down, select the Axiom Healthcare Product.
 - c. From the Select a Dimension to Edit drop-down, select the dimension.
 - d. Click OK.
- 6. At the bottom of the workbook, click the Add_New_Dimension tab.
- 7. You can type a value in the cell free-form or select from a list of existing validated values. These are represented with a folder icon next to the grouping column. You can do one of the following to enter validated values:
 - Next to the column, double-click the folder icon. In the **Choose Value** dialog, select the value, and click **OK**.



• If you have a large number of entries to make, instead of opening each folder, you can copy and paste the validated value to other cells in the same column.

Add New Dimension Element Dimension : PAYTYPE DataSet filter : (DataSetname IN ('General','BP') OR DataSetName = '') (') the column is duplicate. Only the first instance will be saved back			General	Copy validated value in cell	
Save ? PAY	TYPE Descri	ption	PaySummary		ð
No			Friday		\square
No			Friday		Ø
No		Paste to cells	Friday		\bigcirc
No			Friday		\bigcirc
No			Friday		\bigcirc
No			Friday		\simeq

8. For each record to create, in the Save? cell, click the drop-down box, and select Yes.

If you do not select Yes, the **Save**? cell for the new dimension displays No with a red background as a reminder that you need to save your changes. If you do not save your changes, the default values you enter will not display. If you leave the values unpopulated, the system will populate the defaults using those defined in the column properties in the dimension table.

Add New Dimension Element

Dimension : PAYTYPE DataSet filter : (DataSetname IN ('General', 'BP') OR DataSetName = '') (*) the column is duplicate. Only the first instance will be saved back

Save ?	ΡΑΥΤΥΡΕ	Description
No	PayDate	
No	Sabbatical	
No		

9. In the Main ribbon tab, click Save.

Upon Save, the new record posts to the database and the utility refreshes, moving the newly saved record to the **Dimension Maintenance** tab.

IMPORTANT: When adding new records, the field used as that user's security filter must be completed and within their filter before it will save successfully. If it is not, the system displays a message that you cannot post this record to the database because it is outside of your write filter. For example, if a security administrator using the Dimension Maintenance Security provides a filter for Angela to grant her edit rights to the Department dimension for Entity =2, then Angela must enter 2 in the Entity column before saving. For more information about setting up security for the Dimension Maintenance utility, see Editing the security rights for a user.

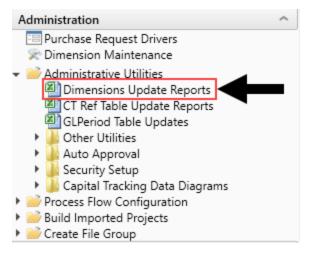
Updating the CAPACCT dimension

While the Dimension Maintenance Utility allows you to modify many of the dimensions shared across Axiom Healthcare Products, many of the dimensions specific to Axiom Capital Tracking can only be modified using the Dimensions Update Reports utility. One of these dimensions is CAPACCT.

The CAPACCT dimension table contains all of the available capital and operating accounts used in the Axiom Capital Planning and Capital Tracking systems.

To update the CAPACCT dimension:

1. In the Cap Track Admin task pane, in the in the Administration section, click Administrative Utilities.



- 2. Double-click Dimensions Update Reports.
- 3. Edit the following columns, as needed:
 - Account The Axiom Software account number used for the Axiom Capital Planning and Capital Tracking systems. This can be the combination of the prime account and sub account, if that is how your GL system is set up. This number is set up by your Implementation Consultant and cannot be edited.
 - **Description** The account description from the GL. Do not enter a description in all capital letters. To remove the all-caps format in the spreadsheet, use the Proper formula =Proper ().

- **Type** From the drop-down, select **Capital** or **Operating** to differentiate between the two types of accounts used in the Axiom Capital Planning and Tracking systems.
- 4. To delete a row, click the **Delete Rows** cell for the row to delete, and from the drop-down select **Delete Row**. The system will delete the row after you save the utility.

CAPACCT Update Utility				
Delete Rows	Account	Description	Type	
	17000	Land	Capital	
	17200	Land Improvements	Capital	
	17300	Buildings	Capital	
	▼7500	Leasehold Improvements	Capital	
Delete Row	7600	Equipment	Capital	
	17605	Pending	Capital	

5. After making your changes, in the Main ribbon tab, click Save.

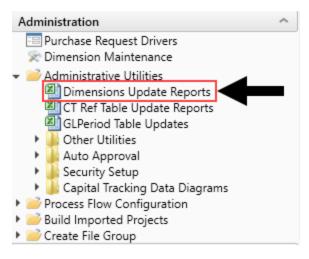
Updating the CODE dimension

While the Dimension Maintenance Utility allows you to modify many of the dimensions shared across Axiom Healthcare Products, some of the dimensions specific to Axiom Capital Tracking can only be modified using the Dimensions Update Reports utility. One of these dimensions is CODE.

The CODE dimension table contains all of the valid CODE items used in the Axiom Capital Planning, Axiom Capital Tracking, and Axiom Financial Planning systems.

To update the CODE dimension:

1. In the Cap Track Admin task pane, in the in the Administration section, click Administrative Utilities.



- 2. Double-click Dimensions Update Reports.
- 3. Edit the following columns, as needed:

- Capital Categories The code numbers are system generated and cannot be edited.
- Description A description for the code.
- Active From the drop-down, select to activate (Yes) or disable (No) the code.

NOTE: Codes cannot be deleted. They must be disabled if you not longer want to use them.

- **BPAcct** Use to transfer capital projects to Axiom Budgeting by mapping the capital category codes to specific accounts. For more information, see Integration with Axiom Budgeting.
- 4. After making your changes, in the Main ribbon tab, click Save.

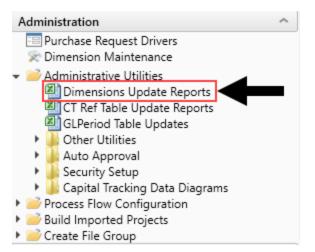
Updating the PAYOR dimension

While the Dimension Maintenance Utility allows you to modify many of the dimensions shared across Axiom Healthcare Products, many of the dimensions specific to Axiom Capital Tracking can only be modified using the Dimensions Update Reports utility. One of these dimensions is PAYOR.

The PAYOR dimension lists all of the defined payors used in Axiom Capital Planning, Axiom Capital Tracking, and Axiom Financial Planning systems.

To update the PAYOR dimension:

1. In the Cap Track Admin task pane, in the in the Administration section, click Administrative Utilities.



- 2. Double-click Dimensions Update Reports.
- 3. Edit the following columns, as needed:
 - **PAYOR** The preset number associated with the payor. This number cannot be edited.
 - Description A description for the payor.
 - Capitated Select whether the provider is capitated (Yes) or not (No).

TIP: Capitation is a payment arrangement for health care service providers. It pays a set amount for each enrolled person assigned to them, per period of time, whether or not that person seeks care.

4. After making your changes, in the Main ribbon tab, click Save.

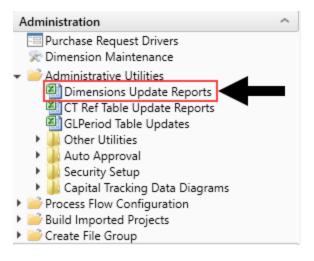
Updating the SUITEVARIABLES dimension

While the Dimension Maintenance Utility allows you to modify many of the dimensions shared across Axiom Healthcare Products, many of the dimensions specific to Axiom Capital Tracking can only be modified using the Dimensions Update Reports utility. One of these dimensions is SUITEVARIABLES.

The SUITEVARIABLES dimension includes a central table that each product can access to assist in mapping to the correct file group and/or table.

To update the SUITEVARIABLES dimension:

1. In the Cap Track Admin task pane, in the in the Administration section, click Administrative Utilities.



- 2. Double-click Dimensions Update Reports.
- 3. Edit the following columns, as needed:
 - Variable The component name for the variable to be accessed by product and used as the lookup for the Variables page in reports and plan files.
 - **Description** A description for the variable.
 - **Parameter** The value to be accessed by a product to associate with a particular file group or table.
- 4. After making your changes, in the Main ribbon tab, click Save.

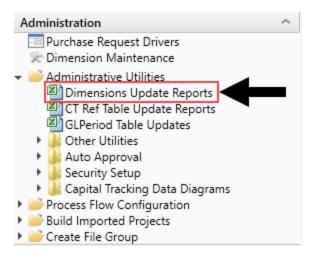
Updating the VENDOR dimension

While the Dimension Maintenance Utility allows you to modify many of the dimensions shared across Axiom Healthcare Products, some of the dimensions specific to Axiom Capital Tracking can only be modified using the Dimensions Update Reports utility. One of these dimensions is VENDOR.

The VENDOR dimension contains the list of the vendors used in the Axiom Capital Planning and Axiom Capital Tracking systems. Using the Dimensions Update Reports utility, you can not only configure the list of vendors but also determine if and how to display the list to users.

To run the Dimension Update Reports:

1. In the Cap Track Admin task pane, in the in the Administration section, click Administrative Utilities.



- 2. Double-click Dimensions Update Reports.
- 3. Edit the following cells and/or columns, as needed:
 - Enable Vendor Picklist for Template Group? From the drop-down, select the template in which to use the vendor picklist.
 - Enable Vendor Picklist for CP or CT? From the drop-down, select whether to use the vendor picklist in Capital Planning (CP), Capital Tracking (CT), or both (CP and CT).
 - **Required for Save?** To require the user to select a vendor before saving the plan file, select **Yes**; otherwise, click **No**.
 - Show Vendor Code for Selection in Template? To display the vendor code to the user, select Yes; otherwise, click No.
 - Vendor The code used for the vendor.
 - Description The name of the vendor.
 - Active To include the vendor from the picklist that displays to users, from the drop-down, select **TRUE**. To exclude the vendor, select **FALSE**.

4. To delete a row, click the **Delete Rows** cell for the row to delete, and from the drop-down select **Delete Row**. The system will delete the row after you save the utility.

VENDOR	Update Ut	ility	
	NonThreshold	< <enable for="" group?<="" picklist="" td="" template="" vendor=""><td></td></enable>	
	CP and CT	< <enable cp="" ct?<="" for="" or="" picklist="" td="" vendor=""><td></td></enable>	
	No	< <required for="" save?<="" td=""><td></td></required>	
	Yes	< <show code="" for="" in="" selection="" td="" template?<="" vendor=""><td></td></show>	
Delete Rows	Vendor	Description	Active
	V00000	TBD - Vendor To Be Determined	
			TRUE
	V00078	Alcon Surgical Inc	TRUE
	V00302	Brainlab	TRUE
	→ 00341	Cardinal Health	TRUE
Delete Row	00364	Sarcom Inc	TRUE

5. After making your changes, in the Main ribbon tab, click Save.

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Dimension Tables

This section includes a description of all the dimensions used in Axiom Capital Tracking.

CAPACCT

The CAPACCT dimension table contains all of the available capital and operating accounts used in the Axiom Capital Planning and Capital Tracking systems. This table should only be updated using the Dimensions Update Utility in the Capital Planning Admin or Capital Tracking Admin task pane.

The following table lists all of the options available in this dimension table:

Column	Description
Acct	The Axiom Software account number used for the Axiom Capital Planning and Capital Tracking systems. This can be the combination of the prime account and sub account, if that is how your GL system is set up.
Description	The account description from the GL. Do not enter a description in all capital letters. To remove the all-caps format in the spreadsheet, use the Proper formula =Proper().
Туре	The Capital or Operating to differentiate between the two types of accounts used in the Axiom Capital Planning and Tracking systems.

CODE

The CODE dimension table contains all of the valid CODE items used in the Axiom Financial Planning, Capital Planning, and Capital Tracking systems. This table should only be updated using the Dimensions Update Utility in the Capital Planning Admin, the Capital Tracking Admin task pane, or the Financial Planning Admin task pane.

The following table lists all of the options available in this dimension table:

Column	Description
Code	The preset code used in Axiom Financial Planning.
Description	Identifies the Code description. Try to be as explicit as possible, avoid abbreviations, and use layman's terms. Descriptions should not be in all capital letters. To remove the all-caps format in the spreadsheet, use the Proper formula =Proper().
CodeUpdate	The mapping to code structure used in Hospital Advisor XI.
FSDetail	Used to identify line-item Financial Statement categories. For the naming convention, use the first letter of the type category with an underscore and then the category name. For example, R_IPRev, R_OPRev.
FSSummary	Used to identify summary-level Financial Statement categories. For the naming convention, use the first letter of the type category with an underscore and then the category name. For example, R_PatientRev or E_Salaries.
Туре	Used to identify the major Financial Statement category.
Category	Used to identify the detailed Financial Statement category.
SummaryCode	Identifies the code that each code summarizes to.
InterfaceCode	Reserved for future use.
Credit	Reserved for future use.
ActiveCode	Designates whether a CODE is active (Yes) or inactive (No) and can be added into a node.
Picklist	Used to determine which codes are available in each category within a node.
CalcMethod	Designates the associated calc method with the code, when applicable.
Allocation	Identifies codes designated as allocation specific.
AcuteCM	Designates if a CODE item is used as a calc method in Axiom Financial Planning.
CapitalCM	Designates if a CODE item is used as a calc method in Axiom Capital Planning and Tracking.
BPAcct	Used to identify Axiom Budgeting accounts from the ACCT dimension.

CPREQ

The CPREQ dimension table lists all of the attributes for a capital project in the Axiom Capital Planning.

The following table lists all of the options available in this dimension table:

Column	Description
CAPREQ	The unique Identity number assigned to each capital project.
Description	The capital project description.
SOURCE	CP for Axiom Capital Planning, CT for Axiom Capital Tracking
Entity	The entity assigned to the capital project from the ENTITY table.
Dept	The department assigned to the capital project from the DEPT table.
ShortDescription	The short project description.
ProjType	The project type.
ProjTypeDetail	The project-type detail.
ProjID	The unique project identification number for the project.
Creator	The username for project creator.
Template	The template selected for the project.
Class	The class selected for the project from the Class picklist.
Reason	The reason selected for the project from the Reason picklist.
Priority	The priority selected for the project from the Priority picklist.
Category	The category selected for the project from the Category picklist.
SubCategory	Not used.
Justification	The project justification entered for the project.
StartYear	The capital planning year from the file group where the project is created.
PurchasePeriod	The purchase period selected for the project from the Purchase Period picklist.
RankExec	The executive rank entered from the Project Ranking report.
RankMgr	The manager rank entered from the Project Ranking report.
StatusComment	The Approval Status Comments entered from the Project Approval report.
Complete	The designation for the project completion. Valid entries include the following:
	• Yes
	• No
UnitCost	The unit cost for first year of capital project.
UnitQty	The Unit Quantity for first year of capital project.
S_UnitQty	The Unit Quantity for first year of capital project from the Project Selection report.

Column	Description
Vendor	The vendor selected for the project from the Vendor picklist.
Matrix	The matrix score calculated from the Decision Matrix selections.
ProjectGroup	The project group selected for the project from the Project Group picklist.
TaxRate	The tax rate entered for the capital project.
PickList01 - PickList16	The Picklist01-16 selected for the project from the Picklist01-16 picklists.
TextField01 - TextField10	The text entries for the TextField01-10 fields.
MatrixValue01 - MatrixValue05	The Matrix Values01-05 selected for the Decision Matrix fields.
MatrixDriver01 - MatrixDriver05	The Matrix Driver Values01-05 selected for the Decision Matrix fields.
AddCapResponse01 - AddCapResponse20	The Yes or No selections for each of the Additional Capital Questions 01-20.
LongDescription	The long description for the capital project.
Include_Commit	Designates if the capital project is included in the Project Selection report for the Actual results.
NonDisc_Commit	Designates if the capital project is non-discretionary in the Project Selection report for the Actual results.
NonDisc_NoCommit	Designates if the capital project is non-discretionary in the Project Selection report for the Scenario results.
Lock_NoCommit	Designates if the capital project is locked in the Project Selection report for the Scenario results.
Selection	Used to identify the selection.
PresentOrder	The presentation order for the Evaluator Scoring report.
AdjBudgetAvailable	Designates if the Adjusted Budget Available is greater than zero and the capital project has been marked as Approved.
ShowOnList	Designates if the project is shown in the workflow and the Open Capital Project window.
SaveTagDocID	Not used.
RebuildTemplate	Designates which template to use if the project was created using the Capital Project Import utility.
OrigBudget2014 - OrigBudget2040	The Original Budget 2014-2040 used in Axiom Capital Tracking.

Column	Description
CP_PM_Routing01 - CP_PM_Routing30	Used for the Manual Process Flow Assignment utility.
FPNode	The node mapping for the integration to Axiom Financial Planning.
FPMode	The model mapping for the integration to Axiom Financial Planning.
FPXfer	Designates whether the project is available for transfer to Axiom Financial Planning.
BPXfer	Designates whether the project is available for transfer to Axiom Budgeting and Performance Reporting.

CTREQ

The CTREQ dimension table lists all of the attributes for a capital project in Axiom Capital Tracking.

Column	Description
CAPREQ	The unique identity number assigned to each capital project.
ProjectID	The unique project identification number for the project.
Description	The capital project description.
SOURCE	CP for Axiom Capital Planning, CT for Axiom Capital Tracking.
CPCAPREQ	The CAPREQ identity from Axiom Capital Planning.
Entity	The entity assigned to the capital project from the ENTITY table.
Dept	The department assigned to the capital project from the DEPT table.
ShortDescription	The short project description.
ProjType	The project type.
ProTypeDetail	The project-type Detail
Creator	The username for project creator.
Template	The template selected for the project.
Class	The class selected for the project from the Class picklist.
Reason	The reason selected for the project from the Reason picklist.
Priority	The priority selected for the project from the Priority picklist.
Category	The category selected for the project from the Category picklist.
SubCategory	Not used.
Justification	The justification for the capital project.

Column	Description
StartYear	The capital planning year from the file group where the project is created.
PurchasePeriod	The purchase period selected for the project from the Purchase Period picklist.
RankExec	The executive rank entered from the Project Ranking report.
RankMgr	The manager rank entered from the Project Ranking report.
CTRankMgr	The executive rank entered from the Project Ranking report in Axiom Capital Tracking.
CTRankExec	The manager rank entered from the Project Ranking report in Axiom Capital Tracking.
Status	The status of the request.
CTStatus	The approval status in Axiom Capital Tracking.
StatusComments	The approval status comments entered from the Project Approval report.
CTStatusComments	The approval status comments in Axiom Capital Tracking.
Complete	The designation for the project completion. Valid entries include the folloiwng:
	• Yes • No
UnitCost	The unit cost for first year of capital project.
UnitQty	The unit quantity.
S_UnitQty	The unit quantity for first year of capital project from the Project Selection report.
Vendor	The vendor selected for the project from the Vendor picklist.
Matrix	The matrix score calculated from the Decision Matrix selections.
ProjectGroup	The project group selected for the project from the Project Group picklist.
TaxRate	The tax rate entered for the capital project.
PickList01 - PickList16	The Picklist01-16 selected for the project from the Picklist01-16 picklists.
TextField01 - TextField10	The text entries for the TextField01-10 fields.
MatrixValue01 - MatrixValue05	The Matrix Values01-05 selected for the Decision Matrix fields.
MatrixDriver01 - MatrixDriver05	The Matrix Driver Values01-05 selected for the Decision Matrix fields.

Column	Description
AddCapResponse01 - AddCapResponse20	The Yes or No selections for each of the Additional Capital Questions 01- 20.
LongDesc	Long description of the project.
Include_Commit	Designates if the capital project is included in the Project Selection report for the Actual results.
NonDisc_Commit	Designates if the capital project is non-discretionary in the Project Selection report for the Actual results.
Lock_Commit	Designates if the capital project is Locked in the Project Selection report for the Scenario results.
Include_NoCommit	Designates if the capital project is not included in the Project Selection report for the Actual results.
NonDisc_NoCommit	Designates if the capital project is non-discretionary in the Project Selection report for the Scenario results.
Lock_NoCommit	Designates if the capital project is locked in the Project Selection report for the Scenario results.
Selection	
PresentOrder	The Presentation Order for the Evaluator Scoring report.
AdjBudgetAvailable	Designates if the Adjusted Budget Available is greater than zero and the capital project has been marked as Approved.
SaveTagDocID	Not used.
RebuildTemplate	Designates which template to use if the project was created using the Capital Project Import utility.
OrigBudget2012 - OrigBudget2040	The Original Budget 2012-2040 used in Axiom Capital Tracking.
CT_PM_Routing01 - CT_PM_Routing30	Used for the Manual Process Flow Assignment utility.
Archive	Designates if the capital project is set as Archived in Axiom Capital Tracking.
ShowOnList	Designates if the project is shown in the workflow and the Open Capital Project window.
SentStatus	The sent status for the capital request.
RFXfer	Determines if the project is to be transferred to Axiom Rolling Forecast.

GLPERIOD

Use the GLPERIOD dimension to define a time period when loading GL transaction-level detail (JE, AP, MM, AR) to the data tables. Each time a record is loaded, it is tagged with the appropriate GLPeriod.

The following table lists all of the options available in this dimension table:

Column	Description
GLPERIOD	The GLPeriod used in Axiom Capital Planning and Capital Tracking when importing monthly transaction data. This is a numeric field, and the syntax is YYYYMM.
Description	Identifies the GLPeriod description to use for reporting.
FiscalYear	Identifies the Fiscal Year for each GLPeriod. Must be a numeric field.
FiscalMonth	Identifies the Fiscal Month for each GLPeriod. Must be a numerical field.
GLMonthName	Identifies the month name for each GLPeriod.
CalYear	Defines the calendar year, which may be different than the fiscal year.
CalQtr	Defines the calendar quarter, which may be different than the fiscal quarter.
CalPeriod	Defines the calendar period, which may be different than the fiscal period.
DaysInMth	Defines the number of days in the month, which will be different from month to month.
LongName	Defines the long name of the month and year (ex. December, 2020).
ShortName	Defines the short name of the month and year (ex. Dec-2020).

PAYOR

The PAYOR dimension lists all of the defined payors used in Axiom Financial Planning, Axiom Capital Planning, and Axiom Capital Tracking systems. This table should only be updated using the Dimensions Update Utility in the Capital Planning Admin or Capital Tracking Admin task pane or the Fin Plan Admin task pane.

The following table lists all of the options available in this dimension table:

Column	Description
Payor	The preset payor number used in Axiom Financial Planning.
Description	The description of each payor.
ENUFF	Not used at this time.
Туре	Identifies type of payor. Gov is utilized in third-party payables calculation.
Revenue	Identifies the revenue type for each payor.
Bad_Debt_Grp	Allows grouping of bad debt to up to five groups of specific payors.
Charity_Grp	Allows grouping of charity to up to five groups of specific payors.
Capitated	Identifies capitated payors.

Column	Description
Picklist	Utilized to select available payors to be added in a node.
HlthPlan_RX	Allows grouping of covered lives to up to two groups of specific health plan payors.
HlthPlan_Other	Allows second grouping of covered lives to up to two groups of specific health plan payors.

POTRANS

The POTRANS dimension table lists all of the attributes for a purchase request in Axiom Capital Tracking.

The following table lists all of the options available in this dimension table:

Column	Description
POTRANS	The unique Identity number assigned to each purchase requisition.
Description	The purchase request description.
CAPREQ	The unique identity number for the capital project assigned to each purchase requisition.
PurchReqID	The unique purchase request identification number linked to the ProjectID.
GLPERIOD	The GLPERIOD assigned to the purchase request.
Creator	The username for purchase request creator.
Status	The approval status for the purchase request.
StatusComments	The approval status comments for the purchase request.
ApprovalDate	The approval date for the purchase request.
РО	The PO number assigned for the purchase request.
Vendor	The vendor selected for the purchase request from the Vendor picklist.
RequestNotes	The purchase request notes (same as Description).
DeliverTo	The Deliver To location selected for the purchase request from the Deliver To picklist.
ReqDate	The creation date for the purchase request.
NeedDate	The need-by date for the purchase request.
AttachNotes	The attachment notes for the purchase request.
SentStatus	The sent status for the purchase request. Designates if the purchase request has been sent to the purchasing system when using the integration.

Column	Description
POPicklist01 - POPicklist10	The Picklist01-10 selected for the purchase request from the Picklist01-10 picklists.
POTextField01 - POTextField10	The purchase request header text entries for the TextField01-10 fields.
PR_PM_Routing01 - PR_PM_Routing30	Used for the Manual Process Flow Assignment utility.
Archive	Designates if the purchase request is set as Archived in Axiom Capital Tracking.
ImportRebuild	Designates if the purchase request should be rebuilt if the data was imported into the system from an external data source.
ShowOnListCT	Designates if the purchase request is shown in the workflow and the Open Purchase Request window.

SUITEVARIABLES

The SUITEVARIABLES dimension includes a central table that each product can access to assist in mapping to the correct file group and/or table.

The following table lists all of the options available in this dimension table:

Column	Description
Suite_INFO	[The product and year?]
Description	The description for the different variables.
Parameter	The value to be accessed by a product to associate with a particular file group or table.
Product	The product
Default	

Scheduler Overview

Using Scheduler, you can schedule certain Axiom Capital Tracking tasks to be processed on a Scheduler server at a specific date and time. For example, you can schedule plan file processing or data imports.

Processing tasks using Scheduler has advantages over manual processing, such as:

- Leverages the server's processing power and frees up your computer's resources.
- Enables recurring scheduling of ongoing tasks.
- Allows tasks to be scheduled during "off hours," during periods of low network and system activity.

• Allows tasks to be performed in batch, including enforcing task dependencies.

Scheduler processes tasks using jobs. Each job is a scheduled unit that can contain one or more tasks. The tasks in a job can be processed sequentially or concurrently as appropriate.

Only system administrators and users with the **Scheduled Jobs User** security permission can access Scheduler.

About Scheduler

This section contains conceptual information about the Scheduler feature in Axiom Capital Tracking.

Scheduler jobs and tasks

The primary unit of Scheduler processing is a *job*. Each Scheduler job can contain one or more *tasks* to be performed as part of that job.

Each Scheduler job defines the following basic properties:

- The tasks to perform for the job and the properties of those tasks
- The schedule of the job, including recurrence (if any)
- The priority of the job
- The notification options for the job

The tasks define the actual activities to be performed by the job, such as importing data or processing plan files. Some Scheduler tasks correspond to existing features that can also be processed manually (such as Process Plan Files), while other tasks are Scheduler-specific and can only be processed via Scheduler. Each task has a unique set of options that are specific to that task and to the activity to be performed. For more information on the available task types, see Scheduler Task Reference.

The tasks in a job can be processed sequentially or concurrently as appropriate. Tasks can be dependent on other tasks in the job as needed—for example, you can configure a job so that if a task fails, the job stops and does not process the next task. Tasks can also be processed iteratively, to perform the same task repeatedly over a defined set of values.

The Scheduler jobs in your system fall into the following basic categories:

- Client-created: You can create Scheduler jobs as needed to perform tasks in your system.
- **System jobs**: Axiom Capital Tracking provides a set of system jobs to perform necessary system tasks.
- **Product-controlled**: When a product is installed, it may include one or more Scheduler jobs to support the use of that product. Generally speaking, these jobs should not be changed unless the product documentation says customization is allowed, or as advised by Axiom Support.

How Scheduler jobs are run

Once a Scheduler job has been created, it can be run using any of the following options:

- The job can be scheduled for execution at a future date and time using a scheduling rule. Scheduling rules can be one-time only, or recurring.
- The job can be run "one time" manually as needed through Scheduler.
- The job can be triggered for execution using an event handler. This allows Scheduler jobs to be triggered in various ways, such as by clicking a button in an Axiom form.

Scheduler jobs are processed by one or more servers running the Scheduler service. For Axiom Cloud systems, the Scheduler service is part of your cloud system and managed by Axiom Support. For onpremise systems, the Scheduler service is installed on one or more servers in your environment. The Scheduler service polls the Axiom Application Server periodically to check for any jobs that are ready to be run. Eligible jobs are then executed on the server, based on their processing priority.

When a job is executed by Scheduler, it is run using a particular user identity. In order for a job to be executed successfully, the user must be an active user defined in Axiom Capital Tracking security, and the user must have the appropriate security permissions to perform the tasks in the job. The user identity for a job is determined as follows:

- If a job is a system job, then it is run as the system-managed identity of **System** instead of a user identity.
- If a job is run by using **Run Now**, then it is run as the user who placed the job on the schedule.
- If a job is run by an active scheduling rule, then it is run as the *job owner*. The job owner is the user who last saved the job.
- If a job is run via an event handler, then the job may be run as either the job owner, or the job requester (the user who raised the event).

System jobs

System jobs are automatically created by Axiom Capital Tracking to support necessary system functionality. Some system jobs are created as part of the initial installation and are intended to run on an ongoing basis, while other system jobs are created on-demand in response to system events. Only administrators can edit these system jobs.

System jobs have two defining characteristics:

• System jobs are run using the system-managed identity of **System** instead of a user identity. The System identity has full rights to the system as necessary to perform system tasks.

• System jobs are run by the default System Scheduler service. For on-premise systems, this service is created and started automatically on the Axiom Application Server, and does not require a separate installation. This service is exclusively for running system jobs.

Axiom Cloud systems may or may not have a separate System Scheduler service, depending on the system configuration (as determined by Axiom Support). If your cloud system does not have a System Scheduler service, then your system jobs are run using the available Scheduler services for the cloud system.

In the Scheduler dialog (Desktop Client), the System Scheduler service is listed on the Servers tab using the following naming convention: *<ServerName>-System*.

If necessary, a product-controlled or client-created job can be flagged as a system job, so that it can be run using the System identity instead of a user identity. To designate a job as a system job, enable **Mark as System Job** in the **General** job properties. The following rules apply to manually-created system jobs:

- Only system administrators can designate a job as a system job.
- The job cannot contain any tasks that are designated as "non-system" tasks. Non-system tasks are any tasks that might involve spreadsheet processing, such as Process Plan Files.

Processing priority for scheduled jobs

Once a job reaches its start time, it is eligible to be processed by Scheduler and joins the processing queue. For scheduled jobs, the start time is based on the scheduling rule that placed it on the schedule. For other jobs, the start time is the time that the job was placed on the schedule using **Run Once** or triggered by an event handler.

Each Scheduler service has a configured number of *threads* that are used to process jobs. As a Scheduler thread becomes available, it takes the next job in the processing queue. The priority of jobs in the processing queue is determined by the combination of the job's priority category, and its **Priority Elevation** setting.

Each job has a priority category, based on how the job execution was initiated. The priority categories are as follows:

- 1. Manual: The job was executed manually.
- 2. Event Handler: The job was executed by a Scheduler event handler.
- 3. Scheduled Job: The scheduled instance of the job results from an active scheduling rule.
- 4. **Subordinate Job**: The job was generated as a subordinate job, from a currently executing job.

Manual jobs are highest priority and are processed first, and subordinate jobs are lowest priority and are processed last. Within each category, jobs are processed according to their **Priority Elevation** setting.

For example, imagine that Scheduler has 2 available threads and the following jobs are eligible to be processed:

Job	Priority Category	Priority Elevation
А	Manual	Default
В	Event Handler	Default
С	Scheduled	Default
D	Scheduled	Elevated

- Scheduler will execute jobs A and B first, because those are the highest priority jobs based on their priority category.
- When the next thread becomes available, Scheduler will execute job D. Although job C may have entered the queue first, and the two jobs have the same priority category, job D's priority elevation is set to **Elevated** so it takes precedence within the category. If instead both jobs were set to **Default**, then job C would be executed first if it entered the queue before job D.
- When the next thread becomes available, Scheduler will execute job C.

NOTE: If a job's **Priority Elevation** is set to **Interrupt**, then it is run as soon as it is eligible, regardless of its priority category and regardless of whether any Scheduler threads are currently available to process the job. If no Scheduler threads are available, a new one is created to process the job, even if this temporarily exceeds the number of configured threads for the server.

The Scheduler dialog

The Scheduler dialog is used to create and manage Scheduler jobs.

To access Scheduler:

• On the Axiom tab, in the Administration group, click Manage > Scheduler.

NOTE: In systems with installed products, this feature may be located on the **Admin** tab. In the **System Management** group, click **Scheduler**.

The top section of the Scheduler dialog contains a ribbon-style toolbar with two tabs: Job and Service.

- On the Job tab, you can create, run, and edit jobs.
- On the Service tab, you can manage scheduled jobs and view job results.

As you perform actions on the **Job** and **Service** tabs, additional tabs are opened in the navigation pane of the dialog. For example, clicking the **Scheduled Jobs** button on the **Service** tab opens the **Scheduled Jobs** tab in the navigation pane. You can move between any open tab in the navigation pane, regardless of which tab is selected in the ribbon. The ribbon updates to show the related commands for the selected item.

Axiom Scheduler - Process Plan Files	? ×
Job Service	
🗋 🚰 🖬 🎽 🕨 📾 🔹 🔹 🚵	
New Open Save Close Run Once - Up Down Selected All Job - Tasks	
Scheduled Jobs Drocess Plan Files	
General > Task Control	
Job Variables V Task Details	
Scheduling Rules Event Handlers Options Plan Files Axiom Queries Processing Variables	
Notification * Tasks Process Plan Files Job Results Process with Utilities Update Persistent Plan Files Process with Custom Utility (requires Excel) Processing Options Select File Group: Current Budget Image: Select File Group: Image: Select File Group: Image: Select File Group: Image: Current Budget Image: Select File Group: Image: Current Budget I	

Example Job tab

Axiom	3 Axiom Scheduler - Scheduled Jobs				?	>		
Job Se	ervice							
Q	1 🕀 🏨							
cheduled Jobs	-/		fresh					
	Service View	Ac	tions					
🖉 Schedul	led Jobs							
ID	Job	User	Status	Server	Priority	Start Time	Due In	
4559790	System.ProcessNotification	System	Pending		Scheduled Job	7/11/2018 17:01	44.42 minutes	
4559766	System.SystemDataPurge	System	Pending		Scheduled Job	7/12/2018 01:00	8.72 hours	
4559769	System.IndexMaintenance	System	Pending		Scheduled Job	7/12/2018 05:15	12.97 hours	
4559792	Process Plan Files	admin	Pending		Scheduled Job	7/12/2018 16:05	23.81 hours	

Example Service tab

When you right-click a tab in the dialog's navigation pane, you can close or save items as follows:

• For all items, you can Close, Close All, or Close All But This.

• For jobs, you can Save or Save As. Selecting Save As allows you to save a copy of the job to the Scheduler Jobs Library in the Axiom Capital Tracking file system.

The Scheduler Jobs Library is also accessible via Axiom Explorer.

Scheduler Job Setup

To perform Axiom Capital Tracking tasks using Scheduler, you must create jobs. Each job can execute one or more tasks. This section discusses how to set up jobs, including how to schedule jobs for future execution and how to be notified when a job has been completed.

Managing Scheduler jobs and tasks

Using the **Axiom Scheduler** dialog, administrators can create and edit Scheduler jobs. To access this dialog:

• On the Axiom tab, in the Administration group, click Manage > Scheduler.

NOTE: In systems with installed products, this feature may be located on the Admin tab. In the System Management group, click Scheduler.

This section discusses how to create, edit, and delete jobs and tasks, not how to manage the Scheduler queue once jobs have been placed on the schedule. If you need to stop or reschedule a scheduled job, see Managing scheduled jobs.

Scheduler jobs are saved as XML files and are stored in the Axiom Capital Tracking file system at \Axiom\Scheduler Jobs Library.

Creating a Scheduler job

You can create a new Scheduler job to perform one or more tasks.

To create a new job:

1. In the Scheduler dialog, on the Job tab, click New.

A new tab appears in the navigation pane, labeled **New Job**. The left-hand side of the job lists sections for which you can define various job settings. When you click a section name, the settings for that section display in the right-hand side of the job.

2. In the General section, define general job settings as desired.

For detailed information on the available settings for a job, see Job properties.

3. In the Scheduling Rules section, specify scheduling details for the job.

You can schedule the job for future execution, for one time or on a recurring basis.

NOTE: If you are always going to run the job manually, and do not need to schedule it for future execution, then you do not need to define scheduling rules.

For more information, see Defining scheduling rules for a job.

4. In the **Notification** section, specify email notification options for the job.

You can send email notifications every time the job completes, or only when the job experiences errors. By default, the job is configured to notify on completion.

For more information, see Setting up email notification for jobs.

- 5. In the Tasks section, add one or more tasks to the job.
 - a. On the **Job** tab of the ribbon, in the **Tasks** group, click **Add**. This brings up a list of available tasks. Select the task that you want to add.

The task is added to the **Tasks** section, and the settings for the task display in the righthand side of the job.

b. Complete the settings for the task as desired.

The **Task Control** section of the task contains standard task settings, and the **Task Details** section contains settings unique to the task type. For more information, see **Task Control** properties.

If a required setting is not completed, the setting is highlighted in red and error text appears in the bottom of the dialog. Make sure to complete all required settings for the task before saving.

Repeat this process until you have added all desired tasks to the job. Tasks are processed in the order listed. If you need to change task order, select a task and then click **Move Up or Move Down**.

- 6. In the Job tab of the ribbon, click Save.
- 7. At the bottom of the **Save As** dialog, in the **File name** box, type a name for the job, and then click **OK**.

The job is saved as an XML file in the Scheduler Jobs Library.

If the job was saved with an active scheduling rule, Axiom Capital Tracking determines the next scheduled date of execution and schedules the job. You can view the job in the **Scheduled Jobs** list (on the **Service** tab of the ribbon, click **Scheduled Jobs**).

Advanced job settings

This procedure covers the basic steps of creating a job. Jobs also support the following advanced options:

- **Event handlers**: You can create event handlers for the purposes of running the job using the RunEvent function. This allows users to trigger job execution from within an Axiom file.
- Job variables: You can create job variables and then use those variables within certain job settings. You can then dynamically pass in values for those variables when using the RunEvent function to execute the job.

For more information, see Advanced options, Using job variables, and Using RunEvent to execute a Scheduler job.

Editing a job

You can edit a job at any time to change job settings, add or remove tasks, change scheduling rules, or change notification options.

This section describes the general process of opening a job for editing. For more details on the impacts of editing scheduling rules, see Defining scheduling rules for a job.

To edit a job:

1. In the Scheduler dialog, in the Job tab, click Open.

The Axiom Explorer dialog opens, showing the Scheduler Jobs Library only.

2. Select the job and then click **Open**.

The job opens in the **Scheduler** dialog. Make sure the job is the active tab in the navigation pane (the most recently opened tab is the active tab by default).

3. Edit the job and task properties as desired.

For detailed information on the available settings for a job, see Job properties. For detailed information on task settings, see Task Control properties.

4. In the Job tab of the ribbon, click Save.

Deleting a job

Deleting a job removes any scheduled executions of the job from the scheduled jobs list.

To delete a job:

1. In the Scheduler dialog, in the Job tab, click Open.

The Axiom Explorer dialog opens, showing the Scheduler Jobs Library only.

2. Navigate to the job that you want to delete, then right-click the job and select **Delete**.

You can also delete Scheduler jobs from Axiom Explorer or the Explorer task pane.

Defining scheduling rules for a job

Once a job has been created, you can run it on demand, or you can schedule it for future execution. Jobs can be scheduled to be run one time, or on a recurring basis. To schedule a job, you define scheduling rules for the job.

You can add, edit, and remove the scheduling rules for a job at any time using the **Scheduling Rules** section of the job properties. You can also flag a rule as active or inactive. If a job has no scheduling rules, or if all of its scheduling rules are inactive, then it will not be run unless it is run manually by a user.

If a job is saved with an active scheduling rule, then Axiom Capital Tracking determines the next scheduled instance of the job and places it in the scheduled jobs list. Once that instance has been processed, the next scheduled instance is determined and scheduled, and so on. Each time the job is run using an active scheduling rule, it is run as the current job owner (unless the job is a system job, in which case it is run as the Scheduler Service System identity).

If a job has multiple active scheduling rules, Axiom Capital Tracking evaluates all of the rules and schedules a single instance of the job, for the earliest time allowed by the rules. Multiple scheduling rules do not result in multiple scheduled instances of the job.

NOTE: If a time zone is listed on the Scheduling Rules section of the job, then the defined rules will be evaluated in the context of that listed time zone. Otherwise, scheduling rules are evaluated in the context of the local time zone for the Scheduler Server. If necessary, the system configuration setting **SchedulingBehaviorTimezone** can be used to specify a particular time zone for evaluating scheduling rules.

Adding a Scheduling rule

You can add a scheduling rule to a job to schedule it for future execution, either one time or on a recurring basis.

If you only plan to run the job manually on demand, then you do not need to create a scheduling rule.

To add a scheduling rule to a job:

- 1. In the **Scheduler** dialog, open a job to edit or create a new job.
- 2. In the left-hand side of the job, select Scheduling Rules.

By default, this area is empty. You must add a rule in order to define scheduling for the job.

3. On the Job tab of the Scheduler ribbon, in the Scheduling Rules section, click Add.

A new row appears in the right-hand side of the job. By default, the new row is active, but does not have start / end dates or any specific recurrence settings.

4. Complete the following settings within the row as needed:

Item	Description
Active	If you want the job to be placed on the schedule as soon as you save the job with the new scheduling rule, then you should leave this option checked.
	However, if you just want to save your schedule settings but you are not ready to begin scheduling the job, then you can clear the Active check box for the rule. The job will not be scheduled until it is saved with an active scheduling rule.
Starting On Ending On	Optional. These dates specify the time frame for the scheduling rule. The starting date defines the earliest point in time that the job can be scheduled, and the ending date defines the latest point in time that the job can be scheduled.
	If these dates are not defined (left blank), then the job will be perpetually scheduled according to the rule settings, as long as the rule is active.
	If you want to schedule a one-time job, then set the starting / ending dates to the same date and time.
	NOTE: Your system locale determines the format of dates.
Day of Week	Specify the day(s) of the week that you want the job to be run:
	• * (Default): The job will be run on all days within the start / end range.
	 0-6: The job will be run on the specified day or days, where 0 is Sunday and 6 is Saturday. Use a comma or a hyphen to separate multiple days (hyphen if the days are contiguous, commas if not).
	For example, you can enter 1, 3, 5 for Monday, Wednesday, and Friday, or enter 1–5 for Monday through Friday.
Hours	Specify the time of day (hours) that you want the job to be run, in relation to the specified days:
	 * (Default): The job will be run on all hours.
	 0-23: The job will be run on the specified hour or hours, where 0 is midnight and 23 is 11:00 PM. Use a comma or a hyphen to separate multiple hours (hyphen if the hours are contiguous, commas if not).
	For example, you can enter 0, 12 to run at midnight and noon, or enter 0–12 to run every hour from midnight to noon.

Item	Description
Minutes	Specify the time of day (minutes) that you want the job to be run, in relation to the specified hours:
	 * (Default): The job will be run on all minutes (essentially the job is run continuously, once per minute).
	 0-59: The job will be run on the specified minute or minutes of the hour, where 0 is the first minute of the hour and 59 is the last minute of the hour. Use a comma or a hyphen to separate multiple minutes (hyphen if the hours are contiguous, commas if not).
	For example, you can enter 0, 30 to run at the top of the hour and the half hour, or enter 0–30 to run every minute from the top of the hour to the half hour.
	NOTE: If you specify an hour, then in most cases you should also specify a minute (such as 0 to run the job at the top of the specified hour). If you enter an hour but leave the minutes at the default asterisk, then the job will run every minute in that hour.

If the Active check box for the rule is selected when the job is saved, then Axiom Capital Tracking will calculate the date and time of the first scheduled execution and will place the job on the schedule.

Editing a scheduling rule

You can edit a scheduling rule at any time, to toggle between active and inactive, and to change the start / end dates and recurrence settings.

NOTES:

- If a pending instance of this job is currently on the schedule, and you edit the scheduling rule, the pending instance will be updated to match the new schedule.
- If you inactivate a scheduling rule, any currently scheduled instances of the job will be automatically removed from the schedule.

To edit a scheduling rule:

- 1. In the Scheduler dialog, open a job to edit or create a new one.
- 2. In the left-hand pane of the job, select Scheduling Rules.

The defined rules display in the right-hand pane of the job.

3. Make any desired changes directly within the scheduling rules grid.

Deleting a scheduling rule

You can delete a scheduling rule at any time. If a job has no active scheduling rules, it will not be processed unless it is manually run.

To delete a scheduling rule:

- 1. In the Scheduler dialog, open a job to edit.
- 2. Select the Scheduling Rules section of the job, and then select the rule that you want to delete.
- On the Job tab of the Scheduler ribbon, in the Scheduling Rules group, click Remove Selected.
 Alternatively, if you want to delete all scheduling rules for the job, click Clear All.

Any jobs in the scheduled jobs queue that were related to the deleted rule(s) are also deleted.

Scheduling rule examples

The following are some example schedules and the rules used to achieve them:

Schedule	Start/End	Day of Week	Hours	Minutes
Weekdays at 11:00 PM	<optional></optional>	1,2,3,4,5	23	0
Every 15 minutes	<optional></optional>	*	*	0,15,30,45
Mondays at 11:30 PM	<optional></optional>	1	23	30
One time (6/30/2020)	Start: 06/30/2020 00:00	*	13	30
at 1:30 PM (Option 1)	End: 07/01/2020 00:00			
One time (6/30/2020)	Start: 06/30/2020 13:30	*	*	*
at 1:30 PM (Option 2)	End: 06/30/2020 13:30			
Every Wednesday in	Start: 07/01/2020 00:00	3	12	0
July at noon	End: 08/01/2020 00:00			
Continuous	<optional></optional>	*	*	*

Setting up email notification for jobs

Scheduler can be configured to send an email notification when a job completes, or when a job has errors. In order for an email to be sent for a particular job, the following must be set up:

- The job must be configured to send a notification on completion or error. The notification settings must include valid To and From email addresses (or use system variables).
- The System.SMTPMessageDelivery system job must be configured with a valid SMTP server for your environment.

When a job creates an email notification, the notification is first saved to the database. When notifications are detected in the database, the System.SMTPMessageDelivery system job is triggered to deliver the notifications.

NOTE: By default, all new Scheduler jobs are configured to send notification on completion, to the user who created the job. You only need to edit these settings if you want to change the default settings.

To configure a job to send email notifications:

- 1. In the Scheduler dialog, open a job to edit or create a new one.
- 2. In the left-hand side of the job, select Notification.
- 3. In the Job Notification Level section, select one of the following:
 - Send all email notifications: (Default) An email notification is always sent when the job is executed, regardless of the job status (success, failure, aborted, etc.).
 - Send email notification only when the job has errors: An email notification is only sent if the job experiences errors. If the job completes successfully with no errors, no email notification is sent.
 - None: No email notifications are sent for this job. The only way to check the status of the job execution is to check the job history.
 - Send email notification to different email addresses when the job has errors or succeeds: This option works the same way as Send all email notifications, except that a separate email address can be specified to receive the error notifications.
- 4. In the Notification Message Content section, complete the following for the notification email:

Item	Description
То	The email address(es) to receive the notification email. Separate multiple addresses with a semicolon. For example:
	 To send the email to two recipients, enter the addresses such as: jdoe@company.com;dsmith@company.com
	 To use a Scheduler job variable to define a notification recipient, enter the variable name with curly brackets. You can combine regular email addresses and variables, such as: {JobOwner.EmailAddress}; jdoe@company.com
	By default, the notification is configured to be sent to the user who executed the job, using the variable {CurrentUser.EmailAddress}.
	The entries in the To field must be valid email addresses, or Scheduler job variables that will resolve to valid email addresses. Currently, it is not supported to list user or role names, or to look up email addresses from Axiom Security.
	NOTE: When using Send email notification to different email addresses when the job has errors or succeeds , this user will be notified if the job completes successfully (including partial success), but not if the job fails. Job failure notifications are sent to the To (on error) recipients.
From	The email address that the message is sent from. This can be something like axiomscheduler@company.com, so that the recipient can easily tell that the message has been generated by Scheduler.
	By default, this is set to the Scheduler "from" email address as defined in the system configuration settings, using the system variable {Scheduler.FromEmailAddress}.
	NOTE: For installations that are using subsystems, the system variable {Scheduler.FromEmailAddress} may resolve to a subsystem administrator email address instead of the Scheduler "from" email address.
Subject	The subject of the message. By default, this is set to "Axiom Scheduler Notification."
User Message	Optional body text for the email. This text is included in addition to the Scheduler auto-generated text regarding the job status.

If Send email notification to different email addresses when the job has errors or succeeds is enabled, the following additional options are available:

Item	Description
To (on error)	The email address(es) to receive the notification email when the job result is Failed . Separate multiple addresses with a semicolon.
	This user only receives a notification if the job fails. If the job result is Success or Partial Success, this user will not receive a notification (only the To user will).
Subject (on error)	The subject of the job failure message. By default, this is set to "Axiom Scheduler Notification."

Job variables can be used in all notification settings.

When this job is executed, it will generate an email notification according to the defined settings, and save that notification to the database to await delivery.

Job properties

This topic is a reference for the settings that can be defined for a Scheduler job.

General

This section defines general settings for the job.

ltem	Description
Description	Optional. The description of the job.
	The job description can also be edited in Axiom Explorer, in the Scheduler Jobs Library.
Job Restart Behavior	Specifies whether and how the job should be restarted if it is interrupted prior to completion. Select one of the following:
	 Do not reschedule this job. In this case, you must manually reschedule the job if it needs to be run before its next scheduled execution.
	 Restart the job from the first task. The entire job is run again, even if some of the tasks were completed successfully before the job was interrupted.
	 Resume the job beginning with the first uncompleted task. (Default) The job resumes and only the uncompleted tasks are run.
	A job would be interrupted if the Scheduler server processing it was restarted, or if the Scheduler service on the server was stopped or restarted, or if the Scheduler server was disabled from the Servers tab (Service > Servers) of the Scheduler dialog.

ltem	Description
Job Results Cleanup	Specifies whether historical job results are purged when the job is run.
	To purge job results:
	1. Select Purge historical job results whenever this job runs.
	 In Number of days to keep results for this job, specify the number of days to keep when purging results. By default this is set to 0, which means all job results will be purged except the result for the current job execution.
	A day is counted as 24 hours from the time the cleanup task is executed. So if you specify 1 day, and the task is run at 11:00 PM on Tuesday, then all results prior to 11:00 PM Monday are purged.
	If this option is not selected, then historical job results remain in the database until the system's Purge System Data task is run.
Priority Elevation	Specifies the priority of the job in the scheduled jobs queue, within the job's priority category. Select one of the following:
	 Default: (Default) This job is run on a "first come, first served" basis. The total number of jobs that can be run at one time is determined by the configured number of Scheduler threads for the installation.
	 Reduced: The job is designated as a low priority job, and remains at the bottom of the queue until other jobs with Default and Elevated priority have been run.
	 Elevated: The job is designated as a high priority job, and is moved to the top of the queue to be run before Default and Reduced priority jobs.
	 Interrupt: The job is run immediately, regardless of any jobs currently waiting in the scheduled jobs queue, and regardless of whether any Scheduler threads are currently available to run it. If no Scheduler threads are currently available, a new thread is created, even if this exceeds the configured thread limit for the installation.
	Job execution order also depends on the priority category of a specific job execution. See Processing priority for scheduled jobs.

ltem	Description
Mark as System Job	Specifies whether the job is run as a system job. Only administrators can edit this check box.
	If this check box is selected, the job is run under the "Scheduler Service" system identity instead of a user identity, and the job is run by the system Scheduler server which operates on the Axiom Application Server.
	Generally, this check box should only be selected for system "support" tasks that should not depend on individual user rights. This check box is not available if the job contains non-system tasks (generally, spreadsheet-related tasks).
	For more information, see System jobs.
Put the system in 'admin only' mode during this job	If this option is selected, then the system will be placed into administrator-only mode at the start of the job, and then placed back into full access mode when all tasks are completed (including any sub-jobs). This is the same behavior as going to Manage > Security > System Access and selecting Administrators Only.
	NOTES:
	 You should make sure that any jobs using admin-only mode do not overlap. For example, imagine that job A starts and places the system in admin-only mode. While job A is still running, job B starts and finishes. If job B also uses admin-only mode, then when job B finishes the system will be placed back into full access mode, meaning the remainder of job A will be processed in full access mode.
	 Any job using admin-only mode must be run by an administrator.
	Generally speaking, any job set to run using admin-only mode should be run at a time when no end users will be logged into the system and no other Scheduler jobs will be running.

Job Variables

This tab has two sections for job variables:

• In the Job values section at the top of the tab, you can manage user-defined variables for use in the current job.

To add or remove variables, use the Add, Remove Selected, or Clear All commands in the Job Variables group of the Job tab. This group is only available when you have selected the Job Variables section in the left-hand side of the job.

When creating user-defined variables, do not add curly brackets to the variable name. Curly brackets are only required when you use the variable in a job or task setting.

• In the **System defined values** section at the bottom of the tab, you can view the system variables available for use in the job.

You can right-click any variable in this section (user-defined or system-defined) and select **Copy variable name to clipboard**. You can then navigate to the setting where you want to use the variable, and then paste it. The variable will be pasted with the necessary curly brackets.

For more information, see Using job variables.

Scheduling Rules

Each row in this section defines a scheduling rule for the job. Jobs will be automatically scheduled according to the settings in this section.

To add or remove scheduling rules, use the Add, Remove Selected, or Clear All commands in the Scheduling Rules group of the Job tab. This group is only available when you have selected the Scheduling Rules section in the left-hand side of the job.

Item	Description
Active	Specifies whether the scheduling rule is active. If this check box is not selected, then the rule is ignored for purposes of scheduling the job.
Starting On	Optional. Specifies the earliest date and time for the scheduling rule to take effect.
	If you want the job to run one time only, set Starting On and Ending On dates to the same date/time.
Ending On	Optional. Specifies the expiration date and time for the scheduling rule. Once this date is past, no further executions will be scheduled for this rule.
Day of Week	Specifies the day(s) of the week that you want the job to be run:
	 * (Default): The job will be run on all days within the start / end range.
	 0-6: The job will be run on the specified day or days, where 0 is Sunday and 6 is Saturday. Use a comma or a hyphen to separate multiple days (hyphen if the days are contiguous, commas if not).
Hours	Specifies the time of day (hours) that you want the job to be run, in relation to the specified days:
	 * (Default): The job will be run on all hours.
	 0-23: The job will be run on the specified hour or hours, where 0 is midnight and 23 is 11:00 PM. Use a comma or a hyphen to separate multiple hours (hyphen if the hours are contiguous, commas if not).

For more information, see Defining scheduling rules for a job.

Item	Description
Minutes	Specifies the time of day (minutes) that you want the job to be run, in relation to the specified hours:
	 * (Default): The job will be run on all minutes (essentially the job is run continuously, once per minute).
	 0-59: The job will be run on the specified minute or minutes of the hour, where 0 is the first minute of the hour and 59 is the last minute of the hour. Use a comma or a hyphen to separate multiple minutes (hyphen if the hours are contiguous, commas if not).

Event Handlers

If an event handler is associated with the job, it is listed here. There are two types of event handlers:

- System event handlers, for completing system-triggered tasks.
- User-defined event handlers, for running jobs via RunEvent. See Advanced options.

To add or remove event handlers, use the Add, Remove Selected, or Clear All commands in the Event Handlers group of the Job tab. This group is only available when you have selected the Event Handlers section in the left-hand side of the job.

Item	Description
Active	Specifies whether the event handler is active or not within the current job. If inactive, then actions that trigger the event handler will ignore this job.
Event Name	The name of the event handler.
	Multiple jobs can have an event handler with the same name; all those jobs will be affected when the event handler is triggered.
Execute As	The user identity under which the job will be run when the event handler is triggered.
	 Owner: For system-managed event handlers, the owner is the system Scheduler identity. For user-defined event handlers, the owner is the user who last saved the job.
	 Requester: For all event handlers, the requester is the user who caused the event handler to be triggered.

Notification

This section defines email notification settings for the job. For more information, see Setting up email notification for jobs.

Job variables can be used in this section. For more information, see Using job variables.

Item	Description
Job Notification Level	Specifies when email notifications are sent for the job. Select one of the following:
	Send all email notifications (Default)
	 Send email notification only when the job has errors None
	 Send email notification to different email addresses when the job has errors or succeeds
	If anything other than None is selected, then you must complete the remaining fields.
То	The email address(es) to receive the notification email. Separate multiple addresses with a semicolon.
To (on error)	The email address(es) to receive the notification email when the job fails. Separate multiple addresses with a semicolon. Only applies when Send email notification to different email addresses when the job has errors or succeeds is enabled.
From	The email address to use as the "From" address for the notification email.
Subject	The subject text for the notification email.
Subject (on error)	The subject text for the notification email when the job fails. Only applies when Send email notification to different email addresses when the job has errors or succeeds is enabled.
User Message	Optional. The body text for the notification email.
	Text entered here will be appended to the body text generated by Scheduler.

Tasks

This section defines the tasks in the job. In the ribbon, task commands are available on the **Job** tab, in the **Tasks** group.

- To add a task, click Add.
- To change the order of tasks, select a task and then click Move Up or Move Down.
- To delete a task, select the task and then click Remove Selected.
- To delete all tasks, click Clear All.
- To copy a task, right-click the task and then click **Copy**. You can copy the task within the same job, or to another open job in the Scheduler window. Right-click any task (or the **Tasks** section header) and then select **Paste**. The job is pasted underneath the job you right-clicked (or at the end of the list if you right-clicked the **Tasks** section header).

• To rename a task, double-click the task name to make it editable, and then type the new name. For example, if you have a job with multiple File Processing tasks, then you may want to edit the name of each task so that you know which file each task relates to at a glance. (You can also rightclick and select **Rename**.)

Tasks are processed in the order they are listed in the job. By default, when you add a new task to a job, it is placed at the bottom of the list. Make sure to move the new job if it should not be processed last.

Tasks can be processed concurrently instead of sequentially if they are configured to be run as a subordinate job within the parent job.

Each task type has its own unique settings in addition to the standard task settings. For more information, see Scheduler Task Reference.

Job Results

Displays historical results for the job. This section is blank if the job has never been run.

Job results may be purged periodically by using the Job Results Cleanup option for the job, or by the system Purge System Data task.

NOTE: Users with the **Scheduled Jobs User** security permission only see results for jobs that they executed. Administrators see results for all executions.

For more information on job results, see Viewing job results.

Advanced options

Creating event handlers for a job

You can create user-defined event handlers in a job, for the purposes of automatically triggering the job for execution when the event name is called by another feature. Axiom Capital Tracking supports several features that can be used to raise an event:

- The RunEvent function and command
- File Group triggers
- The Raise Event Scheduler task

Event handlers are defined by name. Multiple jobs can have an event handler with the same name. When that event handler is called, it will affect all jobs that contain the event handler with the matching name.

To create an event handler in a job:

- 1. In the Scheduler dialog, open a job to edit or create a new job.
- 2. In the left-hand side of the job, select Event Handlers.
- 3. On the Job tab of the ribbon, in the Event Handlers group, click Add.

A new event handler is added to the job.

4. Double-click the **Event Name** field so that the field becomes editable, and then type the desired event handler name.

For example, if the event handler will be used to trigger Process Plan Files jobs, you might name the event handler ProcessPlanFiles.

This event name is the name that will be used in features such as RunEvent to trigger this job for execution.

- 5. In the **Execute As** field, select one of the following to determine the user identity that will be used to run the job when it is executed via the event handler:
 - Owner: The job will be run under the identity of the job owner.

The job owner is the user who last saved the job. If you are not sure who the current job owner is, you can check the **Job Variables** tab. The current job owner is listed in the **System defined values** section.

• **Requester**: The job will be run under the identity of the user who triggered the event handler.

By default, event handlers are set to run as the **Owner**. You should carefully consider this option as it may affect whether the job can be run and how the job is run.

For example, if the event handler is set to **Requester**, but the user who triggered the job does not have access to the file group specified for a Process Plan Files task, then the task will fail.

This may be the desired outcome—you may want the job to be dependent on the user's rights, and therefore you should specify **Requester**. On the other hand, you may want the job to run in the same way every time, regardless of the user that triggers the job. In that case you should specify **Owner**.

By default, the event handler is set to **Active**, which means it will be found by any process that triggers the event handler. If you want to temporarily exclude this job from event handler processing, you can clear the Active check box.

Associating an event handler with a file group

If a Scheduler job with an active event handler is stored in a file group Utilities folder, then the event handler is associated with that file group. When using RunEvent to trigger jobs for execution, you can optionally specify a file group context so that only event handlers associated with that file group (or no file group) are considered.

In order to store a Scheduler job within a file group, you must first create and save the job within the Scheduler Jobs Library. Then, you can use Axiom Explorer to move the job from the Scheduler Jobs Library to the file group Utilities folder. If the file group and its utilities are later cloned using any process—such as regular file group cloning, scenario creation, or file group rollover—then the event handler is also cloned and will be associated with the new file group.

Deleting an event handler

If you no longer need an event handler, you can delete it from the job. Select the event handler and then click **Remove Selected**. You can also **Clear All** to remove all event handlers from the job.

Using job variables

You can use job variables within a Scheduler job, to define the value of the variable when the job is run. Job variables are managed in the **Job Variables** section of the job.

There are two types of variables:

- User-defined variables: You can create a variable and then use it within any job or task setting that supports variables, but only within that particular job. The primary use for user-defined variables is to run a job via RunEvent (either the function or the command), and pass in a variable value at that time.
- **System variables:** Axiom Capital Tracking provides a number of system variables that can be used within relevant job and task settings. For example, instead of specifying a "hard-coded" email address for the job notification, you can use a system variable to specify that whoever ran the job should receive the notification.

In all cases, to use a variable within a job or task, enter the variable name into the desired setting, enclosed in curly brackets. For example: {variable}

TIP: If you want to use a variable in a job, you can right-click the variable and then select **Copy variable name to clipboard**. Navigate to the setting where you want to use the variable, and then paste it into the setting (the curly brackets are added automatically).

At the job level, variables can be used in any of the **Notification Message Content** settings in the **Notification** tab. At the task level, in general, variables can be used in any task field that accepts typed user input.

When the job is run, the variable values used for the job display in the job results under **Job Values**, and also in the email notification (if applicable).

User-defined variables

User-defined variables are created in the **Job Variables** tab. You define the name of the variable (without brackets), and if desired, define a default value for the variable.

When the job is run, the user-defined variable will be replaced with a value as follows:

- If the job was scheduled using RunEvent (function or command), and RunEvent sent a name / value pair that matches the name of the job variable, that value is used.
- If the job was scheduled as a result of a file group trigger, and the trigger has a defined variable that matches the name of the job variable, that value is used. Multiple values are returned as a comma-separated list.

- If the job contains a Process Document List task or a Process Plan Files task with a defined postprocessing variable that matches the name of a job variable, that value is used after that task has been processed.
- Otherwise, the default value defined in the Job Variables tab is used.

If the value is blank, then the job or task setting using the variable will be evaluated as blank. If the setting cannot be blank, then an error will result when the job is executed.

System variables

The available system variables are listed at the bottom of the **Job Variables** tab. Most of these variables relate to user names and addresses, for use within the job notification settings.

When the job is run, the system variable is replaced with the applicable system value.

The following values are available:

Variable	Description	
{CurrentUser.EmailAddress}	Returns the current user's email address,	
{CurrentUser.LoginName}	login name, or full name.	
{CurrentUser.FullName}	The current user is the user identity under which the job is currently being run. Generally, this is the user who executed the job. If the job was executed via an event handler and the event handler is set to owner, then the current user will be the job owner.	
{JobOwner.EmailAddress}	Returns the job owner's email address, login	
{JobOwner.LoginName}	name, or full name.	
{JobOwner.FullName}	The job owner is the user who last saved the job.	
{Scheduler.ConfiguredFromEmailAddress}	Returns the system's default "from" address, as defined in the system configuration settings.	
{Scheduler.FromEmailAddress}	This returns a value as follows:	
	 If the current user belongs to a subsystem, this returns the subsystem administrator's email address. 	
	 If the current user does not belong to a subsystem, this returns the default configured "from" address. 	

Variable	Description
{CurrentSubsystem.AdminEmailAddress}	Returns the email address of the subsystem administrator for the subsystem that the current user belongs to.
	 If the subsystem has multiple administrators, the email is sent to the first administrator.
	 If the user belongs to multiple subsystems, the first returned subsystem for the user will be used. No specific logic is applied to determine the "correct" subsystem for any particular job.
	 If the user does not belong to a subsystem, then no email address is returned.
{EventHandler.EventName}	Returns the name of the event handler that caused the job to be scheduled, if applicable. Otherwise the variable returns blank.
{NotificationAddress}	Returns the notification address defined for the plan codes that triggered a Scheduler job.
	This variable only applies when the job is executed as a result of a file group trigger, and only if the optional notification address settings are defined for the file group. Otherwise, no email address is returned.
{Task.CurrentIterationValue}	Returns the current iteration value and the
{Task.IterationNumber}	current iteration number. These variables only apply when using the Iteration feature for a task.
	For more information, see Using iterative task processing.

Processing tasks in parallel

Each Scheduler job can have multiple tasks. By default, each task in the job is processed sequentially, in the order that the tasks are listed in the job.

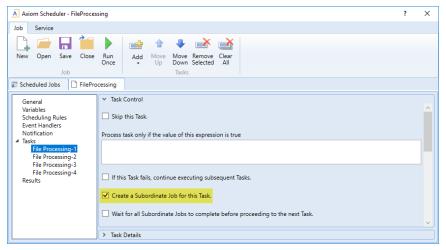
If desired, you can configure tasks so that they are processed concurrently (in parallel) instead of sequentially. If appropriate, this may speed up the processing of the job.

Configuring tasks for parallel processing

In order to process tasks in parallel, the tasks must be configured to run as subordinate jobs (sub-jobs). To do this, edit the following settings in the **Task Control** section for each task:

- Select Create a Subordinate Job for this Task.
- Ensure that the following setting is *not* selected: Wait for all Subordinate Jobs to complete before proceeding to the next Task.

In the following example, if all four tasks are configured to be run as subordinate jobs, then they can be run in parallel (depending on the available Scheduler threads).



Scheduler task configured to run as a subordinate job to enable parallel processing

How parallel processing works

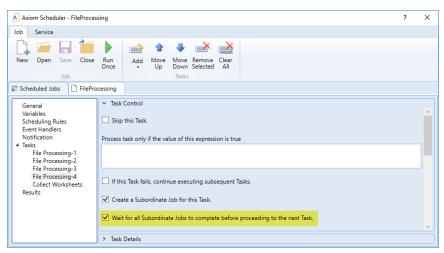
When a task is configured to execute as a subordinate job, then it is not processed within the "parent" job. Instead, a sub-job is created for the task. The sub-job joins the Scheduler queue and is eligible for processing according to the normal Scheduler processing rules. For more information, see Processing priority for scheduled jobs.

For example, imagine that you have a job with four tasks, and these tasks are not dependent on each other. If you use the default settings, Scheduler takes the first task in the list and starts processing. The second task is not started until the first task is complete, and so on.

If instead you configure each task as a sub-job, then when the "parent" job is processed, it will create four sub-jobs. If two Scheduler threads are available for processing, then two of the sub-jobs are processed at the same time. If four Scheduler threads are available, then all four sub-jobs are processed at the same time. Once all of the sub-jobs are complete, the parent job is completed, and its status reflects the overall status of all of the sub-jobs.

If tasks are dependent on each other, then you should not process them as sub-jobs, or you should use the **Wait** setting as appropriate. For example, imagine that the first four tasks in the job can be run in any order, but the fifth task must be processed last. In that case, you can configure the first four tasks to run as sub-jobs, but on the fourth task you must enable **Wait for all Subordinate Jobs to complete before proceeding to the next Task**. This will cause Scheduler to wait for all sub-jobs to finish before it proceeds to the fifth, final task.

In the following example, the file processing tasks are configured as sub-jobs so that they can be run in parallel. The last file processing task is configured to wait, so that all of the file processing tasks will be finished before the file collection task begins.



Scheduler task configured to wait for all subordinate jobs to complete

Using iterative task processing

You can configure a Scheduler task to use iterative processing, so that the task is repeated multiple times using a designated list of values. Each iteration of the task uses a different item in the list, until all items have been processed.

When you enable iterative processing for a task, you define the list of values by specifying a table column and an optional filter. The task will then be processed for each unique item in the table column. You can reference the column values within the task properties by using a built-in Scheduler job variable. As each iteration of the task is processed, the variable is replaced with the column value for the current iteration. Using this approach, the task can dynamically change for each iteration.

For example, you may have an import that you want to perform for four different entities in your organization. The import configuration is exactly the same except that the source file or query is different for each entity. If the import uses entity as a variable, then you can set up a single import task and configure it to iterate over the list of entities. Each iteration uses a different entity name or code, which you can pass into the import variables so that the import uses the correct source file or query for the current entity.

Enabling iterative processing

Iterative processing is enabled in the Task Control properties of the task. Select the task within the Scheduler job, then click **Task Control** to expand that section. Any task can use iterative processing, though it is more useful for certain task types such as Import ETL Package.

Complete the following properties in the Iteration section of the Task Control properties.

ltem	Description
Iterate this Task	Specifies whether iterative processing is enabled for the task. If enabled, then the task will be performed N times, where N is the number of unique items in the specified iteration column. Job variables can be used to apply the current iteration value and iteration number to the task.
Create a Subordinate Job for each iteration	Specifies whether each iteration is processed as a separate subordinate job. By default, this is disabled, which means that all iterations are processed sequentially within the overall subordinate job created to process the iterations.
	If enabled, then each iteration is processed as a separate subordinate job, enabling concurrent execution of multiple iterations. This option should only be enabled if the order of iteration processing is not important.
Column	The column that contains the values to iterate over. Use Table.Column syntax to specify the column. Multiple-level lookups can be used.
	For example, if you specify Dept.Region, then the task will be processed once for each unique region value in the column (after applying any filter to limit the list of values).
Group By	Optional. By default, the group by column is the same as the iteration column, so that the task is processed once for each unique value in the iteration column. However, if needed, you can specify a different grouping level.
	You can use any column or columns that would be valid as the "sum by" level for an Axiom query, where the primary table is the table specified for the iteration column.
Order By	Optional. By default, the values are sorted based on the iteration column, in ascending order. You can specify a different sort column, or use the same sort column but change the order to descending.
	The sort order is ascending unless the keyword <code>desc</code> is used to specify descending order. For example:
	Dept.Dept desc
Filter	Optional. A filter criteria statement to limit the list of values for the iterative processing. You can use any filter that is valid against the source table (the table of the iteration column).

When iterative processing is enabled for a task, the iterations are always processed within a subordinate job. Therefore, enabling the Task Control option of **Create a Subordinate Job for this Task** is unnecessary.

If your job has multiple tasks, and you want the tasks after the iterative task to wait for all iterations to complete before executing, then you must enable the following Task Control option for the iterative task: Wait for all Subordinate Jobs to complete before proceeding to the next Task.

Configuring the task to change for each iteration

In order for the Scheduler task to apply the current iteration value to each iteration, you must use the built-in iteration variables within the task. These variables are job variables, and can be used like any other job variable. The following variables are available:

Variable	Description
{Task.CurrentIterationValue}	Returns the current value from the iteration list.
{Task.IterationNumber}	Returns the number of the current iteration.

To continue the previous example, imagine that you are setting up an import for iterative processing by entity. To define the list of entities, you set up the Iteration settings in the Task Control section like the following:

A Axiom Scheduler - import_iteration	?	×
Job Service		
New Open Save Close Run Add Move Remove Clear Job Job Tasks		
Scheduled Jobs		
General Variables Scheduling Rules Iteration Event Handlers Create a Subordinate Job for each iteration. Notification Create a Subordinate Job for each iteration. Import ETL Package Column Entity.Entity Group By Order By		

This example will iterate over the list of entities in the Entities column, limited to only those entities where the Costing column is set to True. If this resolves to 4 entities, then the task will be processed 4 times, once for each entity.

The import is configured with a variable {Entity}, which it uses to process the correct entity source file. In order to pass the current task iteration value to the import variable, you can use the job variable {Task.CurrentIterationValue} in the import task settings. For example:

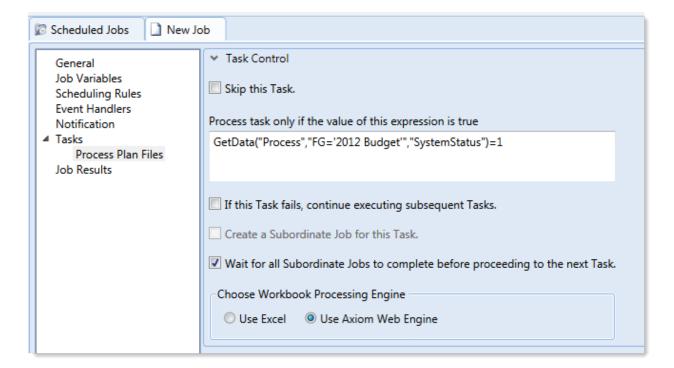
A Axiom Scheduler - import_iteration			×
Job Service			
New Open Save Close	Run Add Move Move Remove Clear		
Job	Once - Up Down Selected All Tasks		
Scheduled Jobs 🗋 import	_iteration		
General Variables Scheduling Rules Event Handlers Notification Tasks Import ETL Package Results		Вгоч	vse
	Entity {Task.CurrentIterationValue}		~

When the first iteration is performed, the {Task.CurrentIterationValue} will be resolved as Entity_1, so the import will be processed using Entity_1 as the value for the {Entity} import variable. For the second iteration, the value Entity_2 will be used, and so on. Using this approach, the import will be processed for all entities in the iteration column.

Conditionally processing tasks in a job

You can configure a task so that it is only processed if a particular condition is met. This feature is configured in the task settings, in the Task Control section, under Process task only if the value of this expression is true.

To enable conditional processing, you must specify a logical expression that will resolve to either true or false when the job is executed. If true, then the task is processed as normal. If false, then the task is skipped.



The logical expression is evaluated using an IF function on the Scheduler server as follows:

```
=IF(Expression, 1, 0)
```

You can enter any expression that would be valid in an IF function. You can use Excel functions, Axiom functions, and Scheduler job variables in the expression. If you use a job variable, it must be placed in quotation marks unless you expect the variable value to be resolved and evaluated as a number.

If the task is not processed because the condition resolves to false, this is not considered a failed task. If there are other tasks in the job, they will be processed. If you want an entire job to be conditional, you can do either of the following:

- Repeat the condition in each individual task settings. Keep in mind that the condition will be evaluated for each individual task, which means that if it is possible for the condition to change in between tasks, some tasks might be processed while others aren't.
- Use the condition on a Raise Event task that then triggers another job for processing. For more information, see Raise Event task.

Examples

The following are some example expressions for conditional processing:

GetData("Process", "FG='2012 Budget'", "SystemStatus")=1

If this GetData function returns 1, the expression resolves to true and the task is processed. If not, it is false and the task is skipped.

AND("{EventHandler.EventName}"="ProcessPlanFiles", {Dept}=1000)

If this job was triggered for execution by the ProcessPlanFiles event handler, and if the job variable Dept resolves to 1000, then this expression is true and the task is processed. Note that in the first part of the expression, the event handler variable will return a string value so it must be placed in double quotation marks. In the second part of the expression, the department variable will return a number so it is not placed in quotation marks.

AND (Day (Now ()) $\leq =7$, Weekday (Now ()) =2)

This expression will return true if it is the first Monday of the month, otherwise it will return false.

Using RunEvent to execute a Scheduler job

Using RunEvent, you can trigger the execution of a Scheduler job from various contexts, such as within Axiom files, task panes, or Axiom forms. There are two different versions of RunEvent:

- **RunEvent function**: The RunEvent function can be used in Axiom files to trigger the execution of a Scheduler job from a spreadsheet.
- **RunEvent command**: The RunEvent command can be used in task panes or Axiom forms to trigger the execution of a Scheduler job.

Both the function and the command work in the same way and use similar parameters. Some limitations apply depending on the context where RunEvent is being used. It is assumed that an administrator (or a power user with the necessary rights) sets up the desired jobs within Scheduler, and then sets up RunEvent in the appropriate context so that end users can trigger it.

The end user who triggers the job using RunEvent does *not* need to have file permission to the job or any access to Scheduler. The job itself can be configured to execute its tasks using the permissions of the job owner or using the permissions of the end user who triggered the job (the requester). If the job is run as the requester, then the end user must have the appropriate permissions to the files impacted by the job (for example to the target file for File Processing, or to the target file group and plan files for Process Plan Files).

NOTE: You can also use the Raise Event Scheduler task to trigger the execution of a Scheduler job from a different Scheduler job. This works in a similar manner as the RunEvent features.

Setting up a Scheduler job for RunEvent

All uses of RunEvent require the same job setup in Scheduler:

• The job that you want to execute via RunEvent must already be created within Scheduler. When setting up the job, consider items such as the notification settings. Do you want the notifications to go to the user that executed the job, or to the job owner, or both?

• The job must contain an event handler that will be used to trigger the job execution. When creating the event handler, consider whether you want the job to run as the job owner, or as the requester (the user who clicks on the RunEvent function). This may impact email notifications and determines the user rights under which the job will run.

Scheduled Jobs	inevent		
General	Active	Event Name	Execute As
Named Values Scheduling Rules Event Handlers Notification Tasks Process Plan Files Job Results	✓ ProcessPli	anFiles	Owner •

For more information, see Advanced options.

• Optionally, the job can use variables. Variable values can be defined in the RunEvent function or command and passed to the job. You would do this if aspects of the job need to be dynamic; for example, if you want to use a different filter depending on which user is running the job or based on a user selection in the file. For more information see the *Variable example* section below.

Setting up RunEvent

RunEvent uses the following properties to trigger Scheduler jobs:

- The event handler name that identifies the Scheduler job(s) to trigger for execution.
- An optional confirmation message to present to the user before proceeding with the event. Not available when using the command within an Axiom form.
- An optional success message to present to the user after the event has been raised.
- An optional file group context to target the job execution to only event handlers that are associated with a particular file group (or no file group). For the RunEvent command, this is an optional parameter. For the RunEvent function, the current file group context is automatically applied if the file with the function belongs to a file group.
- If variables are being used, one or more variable names and values to pass to the Scheduler job. This is available in all contexts, however, task panes do not currently support the ability to determine the variable values dynamically.

The following shows an example RunEvent function for use in an Axiom file:

```
=RunEvent("Click here to process plan files","ProcessPlanFiles","You are
about to process plan files for the "&C3&" region. Do you want to
continue?",,"filter = "&C4)
```

The first parameter defines the display text for the function, while the second parameter specifies the event handler name. In this example we have also defined a custom confirmation message for the user and a variable value to pass a filter to the job. The following screenshot shows the function in the spreadsheet:

>	RunEvent ×					
	C7 RunEvent("Click here to process plan files", "ProcessPlanFiles", "You a					
er		B C D E F			F	
Explorer	1					
EX	2	2				
10	3	3 North				
Process	4 Dept.Region='North'					
Pro	5					
	6					
stant	7		Click here to process plan files			
sta	0					

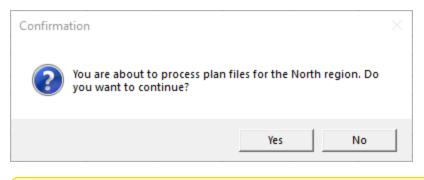
The next screenshot shows a RunEvent command set up on a Button component for an Axiom form. You can see the same event name and the filter variable also being read from a sheet location.

A Shortcut Proper	ties	×
Choose Sho	ortcut	
Shortcut Target		_
command://RunEv	ent	🗙
Shortcut Paramete	rs	
Event Name	ProcessPlanFiles	
Result Message	Process Plan Files has been scheduled.	
File Group		
Processing Step	Form - Before Processing V	
Event Variables		+
Filter	[Sheet1!A15]	×
L		
	ОК	Cancel

RunEvent behavior and user experience

The behavior and user experience for RunEvent depends on the context and whether you are using optional custom messages.

- The user starts the process by doing one of the following:
 - Double-clicking the RunEvent function in the spreadsheet.
 - Clicking the Button component that is configured for RunEvent in the Axiom form.
 - Double-clicking the RunEvent item in the task pane.
- A confirmation prompt displays to the user, asking them to confirm that they want to proceed. The user can click **Yes** to proceed, or **No** to cancel. Default text is used if no custom text is defined in the RunEvent properties.



NOTE: This step does not apply when executing RunEvent from an Axiom form. The Axiom form context does not support a confirmation message. However, you can configure the Button component to display a confirmation message before executing the RunEvent command.

- Axiom Capital Tracking checks the list of event handlers in Scheduler to see if any match the specified event handler name in RunEvent. This check works as follows:
 - If RunEvent has a file group context, then Axiom Capital Tracking only tries to match with event handlers that are associated with the same file group, or with no file group. Any event handlers associated with a different file group are ignored. The RunEvent command has a file group context if a file group is specified in the shortcut parameters, whereas the RunEvent function automatically has a file group context if the file with the function belongs to a file group.
 - If RunEvent does not have a file group context, then all event handlers are eligible to match.

If any matching event handler names are found, then all Scheduler jobs that reference the event handler are triggered for execution. If multiple jobs reference the matching event handler, then all of those jobs will be executed.

If variable values are defined in the RunEvent properties, those values are passed to the job and are used when the job is executed.

- A confirmation message displays to the user as follows:
 - If no jobs were found that contained the specified event handler, the user is notified that no jobs were found.
 - If jobs were placed on the schedule, the user is notified that the specified event was scheduled. Default text is used if no custom text is defined in the RunEvent properties.

NOTE: If executing RunEvent from an Axiom form, this message displays in the bottom left corner of the form, not in a separate message dialog.

When the job is finished processing, email notifications are sent according to the settings in the job.

Variable example

When using RunEvent to execute a Scheduler job, you can pass a variable value to the job. For example, imagine that you want to execute a Process Plan Files job, and you want to send a filter value to the job.

Step 1: Set up the variable in the job

The first step would be to create a job variable in the job, and then use the job variable in the filter setting.

Scheduled Jobs				
General Job Variables	Job values Variable Name	Default Value		
Scheduling Rules Event Handlers	filter	1=0		
Notification Tasks				
Process Plan Files				
Job Results				

Example job variable

NOTE: In this case, we have defined a default value for the filter variable (1=0) that does not result in any plan files. This is because we do not want to process any plan files unless a filter is provided by RunEvent. If we left the default value blank, that would mean all plan files would be processed if no filter was provided by RunEvent.

🕼 Scheduled Jobs 🗋 test_ru	unevent	
General Job Variables Scheduling Rules Event Handlers Notification Tasks Process Plan Files Job Results	{filter} Plan files matching filter: 0	Filter Wizard

Example use of variable in job settings

For more information on Scheduler job variables, see Using job variables.

Step 2: Configure RunEvent to use the Variable

Now that the job is set up to use the filter variable, you must configure RunEvent to pass in a value for that variable. If you are using the RunEvent function in an Axiom file, you use the following syntax within the function parameters:

variablename=variablevalue

These name / value pairs can be placed in the RunEvent function starting in the fifth parameter of the function. If you have two name / value pairs to pass to the job, you can use the fifth and sixth parameters, and so on.

For example, to pass the filter DEPT.Region='North' to the job, the RunEvent function would be constructed as follows:

```
=RunEvent("Double-click to process plan
files","ProcessPlanFiles",,,"filter=dept.region='North'")
```

More likely, you would be reading the variable value from another place in the sheet, so the function would look something like:

```
=RunEvent("Double-click to process plan
files","ProcessPlanFiles",,,"filter="&C4)
```

Where the filter value is read from cell C5.

When the job is executed by use of this RunEvent function, the value DEPT.Region='North' will be placed in the Plan File Filter box of the Process Plan Files task, and the job will be run using that filter.

When using RunEvent in an Axiom form, the variables and their values are defined in the Event Variables section. In this context you place the name of the variable in the left-hand box, and then in the right-hand box you enter the cell reference (in brackets) where the variable value will be read.

Event Variab	es	+
filter	[Sheet1!C4]	×

The Event Variables section is also present when configuring RunEvent for use in a task pane, however in this context the only option is to "hard-code" the values in the RunEvent properties.

Run another Scheduler job from within a Scheduler job

Scheduler jobs have two ways to run another Scheduler job:

- Raise Event task: This task uses an event handler name to trigger one or more Scheduler jobs for execution. The jobs triggered by the event handler are run independently from the job containing the Raise Event task.
- Run Scheduler Job task: This task runs a specified Scheduler job as a subordinate job within the current "parent" job. Essentially, the tasks in the target job are run within the parent job, which means that other tasks in the parent job can reference the results of those tasks.

The decision of which task to use depends on several factors, but the most important is whether the Scheduler jobs are independent or dependent. If the first job is dependent on the execution of the second job, then you must use the Run Scheduler Job task. When the Raise Event task is used, the triggered jobs are run independently.

Comparison	Raise Event	Run Scheduler Job
Can pass variables to target job	Yes	Yes
Can execute target job as requester or owner	Yes	No
Can wait for target job to complete before continuing	No	Yes
Can use results of target job in subsequent tasks	No	Yes

The following chart details some comparison points between the two tasks:

Using the Raise Event task

The Scheduler Raise Event task is typically used when you need to trigger another job for execution once the current job is complete. The Scheduler job(s) triggered by the event handler are added to the schedule and then executed independently from the current job. For example, you might place the Raise Event task at the end of the task list, so that all tasks in the current job must complete successfully before the Raise Event task is run. Because the jobs triggered by the event handler are run independently, you cannot perform additional tasks in the current job that depend on the results of the triggered jobs. The current job will not wait for the triggered jobs to be run.

Event handlers can be configured to run a job as either the job owner or as the requester (meaning the user that triggered the event). This allows some additional flexibility in how the triggered jobs are run. For example, you may want to trigger a job that needs to be run using administrator permissions. As long as the event handler is configured to run as job owner (and the owner is an administrator), then that triggered job will always have the necessary permissions, regardless of the user who is running the job with the Raise Event task.

Using the Run Scheduler Job task

The Run Scheduler Job task is typically used when you need to run another job and then perform additional tasks once that job is complete. Because the target job is run as a subordinate job within the "parent" job, the parent job can wait for the "child" job to complete before it continues processing tasks. Later tasks in the parent job can reference the results of the completed child job, such as querying data saved from the child job, processing plan files created by the child job, and so on.

Keep in mind that it is not possible to stop processing tasks in the parent job based on the general success or failure of the child job. Although Scheduler jobs automatically stop processing if a task fails, the task in this case is just the Run Scheduler Job task. As long as the child job can be successfully added to the Scheduler queue for processing, the Run Scheduler Job task will report success. If needed, you can use the option **Process task only if the value of this expression is true** to detect whether a subsequent task in the parent job should be processed. For example, if you know that the child job saves a particular value to the database, you can check for the existence of that value to determine whether to process a task. For more information on using this option, see Conditionally processing tasks in a job.

The child job is run using the same user permissions as the parent job. The user running the parent job must have the appropriate permissions to complete all tasks in both the parent job and the child job.

Chaining multiple Scheduler jobs

You can "chain" multiple Scheduler jobs together using either approach. For example, you may have three Scheduler jobs that you want to run, in a particular order.

You can place multiple Run Scheduler Job tasks in a parent job, where each task triggers a separate job. Because these tasks run as subordinate jobs, and the parent job can wait for each child job to complete, it is easy to run the jobs in order. However, if you want to stop processing the jobs if one fails, there is no built-in way to do that (as discussed in the previous section). You would need to set up the Run Scheduler Job tasks to run or not based on a condition, where the condition tests some result from the previous job.

To chain jobs using Raise Event, the last task in each job can be a Raise Event task. Each job will perform its tasks and then trigger the next job in the chain. When using this approach, the chain automatically stops if failure occurs, because if a task in the job fails then the job stops and will not proceed to the

Raise Event task. The disadvantage of this approach is that the jobs cannot also be run separately, unless you manually disable the Raise Event tasks or configure the Raise Event tasks to not run based on a condition.

Running a job

If a job is saved with an active scheduling rule, then the job is automatically placed on the schedule to be run according to that rule. Each time the job is run according to the rule, it is run as the current job owner (unless it is a system job, in which case it is run as the System identity).

However, you can also choose to run a job manually. If you run a job manually, the job is added to the **Scheduled Jobs** list with a start time of now, to be processed according to its job priority settings. The job will be run using your user identity (again, unless it is a system job).

Running a job manually does not impact any scheduled executions of the job as determined by scheduling rules. For example, if a job is scheduled to be run at 10:00 PM tonight, and you run the job manually at 2:00 PM, the job will still be run as scheduled at 10:00 PM.

To manually run a job:

1. In the Scheduler dialog, in the Job tab, click Open.

The Axiom Explorer dialog opens, showing the Scheduler Jobs Library only.

2. Select the job and then click **Open**.

The job opens in the **Scheduler** dialog. Make sure the job is the active tab in the navigation pane (the most recently opened tab is the active tab by default).

3. In the Job tab of the ribbon, click Run Once.

A confirmation message informs you that the job has been placed on the schedule.

NOTE: When you click **Run Once**, any unsaved changes to the job are automatically saved. This save will designate you as the job owner (if you are not already the job owner).

Managing scheduled jobs

The **Scheduled Jobs** tab of the Scheduler dialog displays all jobs that are scheduled to be processed or are in process. This includes scheduled jobs, jobs executed manually via **Run Now**, and jobs that were triggered for execution via an event handler.

By default, this list displays when you first open Scheduler. If you have changed the view in the dialog, you can return to it by clicking the following:

• On the Service tab, in the Service View group, click Scheduled Jobs.

If a job has a scheduling rule with a recurring schedule, only the first scheduled execution appears in the list. For example, if you have a job that is scheduled to run once a month for a year, you will not see all twelve scheduled executions in the list—you will only see the first scheduled execution. Once that instance has been run, the scheduling rule is re-evaluated and the next scheduled execution appears in the list.

In this tab, you can:

- Stop a scheduled execution. If you do not want a scheduled instance to be run, right-click the item and select Remove from Schedule. This not only removes the scheduled instance, it also inactivates the associated scheduling rule for the job (if applicable). If you want future scheduled instances of the job to proceed, you must edit the job to re-enable the scheduling rule.
- Abort an in-process job. If a job is already running and you want to stop it, right-click the item and select Abort Working Job. This will immediately abort the job regardless of what it is currently doing. Keep in mind that depending on the type of job and its stage in the process, this may result in side-effects such as files remaining locked or incomplete processing. No notifications will be sent for the aborted job. Generally, this action should be reserved for situations where a job has gotten "stuck" or was started in error.
- **Reschedule an execution.** To change the scheduled start date/time of a scheduled instance, rightclick the item and then select **Reschedule Start Time**. The **Start Time** field in the grid is now editable, and you can type in a new date and/or time.
- **Refresh the list.** On the **Service** tab, in the **Actions** group, click **Refresh**. New scheduled jobs will be added to the list, and **Status** and **Due In** will be updated appropriately.

NOTE: Users with the **Scheduled Jobs User** security permission can only modify jobs that they placed on the schedule. Jobs scheduled by other users are visible, but are grayed out and unavailable for editing. Administrators can view and edit all scheduled jobs.

Scheduled job information

The following information displays for each scheduled job:

Item	Description
ID	The system-generated ID for the job execution. Each scheduled execution of a job has a unique ID. Job results are listed by execution ID.
Job	The name of the job.
User	The user identity that the job will be run as. If the job is a system job, the user is System .
	This is typically the name of the user who placed the job on the schedule, but not always (for example, when using an event handler that is set to run as the job owner instead of as the requester).

Item	Description
Status	Job status is either Pending (waiting to be executed) or Working (currently being executed).
Server	If a job is currently Working , then the server executing the job is listed here. Otherwise, this column is blank.
Priority	The priority category for the job:
	1. Manual: The job was executed manually.
	2. Event Handler: The job was executed by a Scheduler event handler.
	 Scheduled Job: The scheduled instance of the job results from an active scheduling rule.
	 Subordinate Job: The job was generated as a subordinate job, from a currently executing job.
	The priority category determines how jobs are evaluated for processing order, in conjunction with the job's Priority Elevation setting. Manual jobs are highest priority, and subordinate jobs are lowest priority. For more information, see Processing priority for scheduled jobs .
Start Time	The start time of the job. The job is eligible for immediate execution if the start time is now or passed. Jobs may not be executed right at the start time if no Scheduler threads are currently available to execute the job, or if other eligible jobs have higher priority.
	If the job is on the schedule due to a scheduling rule, the start time is based on the scheduling rule. If the job was manually executed via Run Now or triggered by an event handler, the start time is the time the execution was initiated.
Due In	The length of time until the job is due to be processed. For example, if the job is scheduled to run at noon and it is currently 11:50 AM, then the job is due to be run in 10 minutes.
	This column is intended to make it easy to see when a job will be run, without needing to calculate it based on the start time.

Viewing job results

Once a job has been run, you can view the results in the Scheduler dialog. Job results can tell you:

- Whether the job processed successfully or failed
- The process steps performed by the job, if it was successful
- The error message for the job, if it failed
- The date/time when the job started processing and how long it took to process
- The Scheduler server that processed the job

NOTE: Users with the **Scheduled Jobs User** security permission can only see job results for jobs that they executed. Administrators can see job results for all jobs.

To view results for all jobs:

• On the Service tab, in the Service View group, click Job Results.

The **Result History** tab opens, listing a summary of results for all jobs that have started or finished. If you want to see more specific details for a particular job execution, double-click it. This opens the related job to the **Job Results** section, where you can view more details such as the specific error message for a failed execution.

TIP: Alternatively, you can open a job directly, and go to the **Job Results** section to view results for that job only.

System job results

By default, system job results are hidden in the **Result History** tab. System jobs such as the SMTP message delivery job run frequently, and can easily fill up the result history screen, making it difficult to find results for user-initiated jobs.

If you want to view results for system jobs, you can do one of the following:

- At the bottom of the Result History tab, clear the Hide system jobs check box.
- Open the system job directly, and view its job results within the job. For example, you can go to the **Scheduled Jobs** tab and double-click the **System.SystemDataPurge** job to view all results for that job.

Purging job results

Over time, the job result history can get quite large, so it is recommended to purge the result history periodically. There are two ways to purge result history:

- Each job can be configured to purge its own prior result history when it is run (Job Results Cleanup). This setting is located in the General section of the job properties. For more information, see Job properties.
- The System.PurgeSystemData system job purges result history whenever it is run (by default, once per hour).

When you purge job results, you specify a number of days of history to be kept. For example, you may always want to keep 5 days' worth of job history, and purge any results older than that.

Scheduler Task Reference

Each Scheduler task in a job has two sections of task properties:

- Task Control: Common task properties that apply to all task types. For more information, see Task Control properties.
- Task Details: Properties specific to the current task type. For more information, see the topics for each individual task type.

The following task types are available:

Task	Description
Active Directory Import	Import users from Active Directory into Axiom Capital Tracking. This task adds new users, and can also disable users that no longer exist in the Active Directory domain.
Collect Worksheets	Collect worksheets from multiple files into a single file.
Copy On Demand Plan Files	Copy plan files from one on-demand file group to another.
Create Plan Files	Create new plan files (same as the Create Plan Files utility for file groups).
Echo Task	Test the Scheduler server. This task sends a message to the Scheduler server and asks it to send the message back.
Execute Command Adapter	Execute a command from the Command Library.
Execute SQL Command	Run a SQL statement on an Axiom database.
Export ETL Package	Export data to an external database, using an export utility defined in the Exports Library.
File Processing	Perform file processing actions on a report. You can use the report's native file processing settings, or override the settings.
Import ETL Package	Import data into Axiom Capital Tracking, using an import utility defined in the Imports Library.
Process Document List	Process any set of Axiom files—for example, driver files or report utilities. The task calculates and saves the files, and can also refresh Axiom queries and save data to the database.
Process Plan Files	Process plan files (same as the Process Plan Files utility for file groups).
Process Template List	Process a template file. The task runs designated Axiom queries, time- stamps the queries, and saves the template.
Purge System Data	Purge old Scheduler results and system temp tables.
Raise Event	Trigger another Scheduler job for execution, using a named event handler.

Task	Description
Run Scheduler Job	Run another Scheduler job as a subordinate job.
SMTP Message Delivery	Deliver email notifications resulting from Scheduler jobs.
Start Process	Start a process definition for Process Management.
Update Indexes and Constraints	Update the indexes and constraints in your Axiom Capital Tracking database.

Task Control properties

The following task properties are available for all Scheduler task types. To edit these properties, select the task in the Scheduler job, then expand the **Task Control** section.

Item	Description
Skip this Task	If selected, the task will not be run when the job is processed.
	By default, this option is not selected, which means this task will be run.
Process task only if the value of this expression is true	Optional. Enter a logical expression to conditionally process this task depending on whether the expression resolves to true or false at the time the job is executed. If true, the task is processed as normal. If false, the task is skipped.
	The logical expression is evaluated by the Scheduler server using an IF function. The expression can be any statement that would be valid within an IF function. You can use Excel functions, Axiom functions, and Scheduler job variables in the expression. If you use a job variable in the expression, you must place the variable in double quotation marks unless you expect it to be resolved and evaluated as a number.
	For more information, see Conditionally processing tasks in a job.
If this Task fails, continue executing	If selected, the job will continue processing even if this task fails.
subsequent Tasks	By default, this option is not selected. If a task in a job fails, the job is canceled and no further tasks are processed.
Create a Subordinate Job for this Task	If selected, this task will be processed as a subordinate job to the current job.
	Selecting this check box enables concurrent processing of different tasks, if the option to Wait for all Subordinate Jobs to complete before proceeding to the next Task is not selected.
	NOTE: This option is not available for Process Plan File tasks.

ltem	Description
Wait for all Subordinate Jobs to complete before proceeding to the next Task	If selected, the job will wait for any subordinate jobs to complete before moving to the next task.
	If this check box is not selected, and the option Create a Subordinate Job for this Task is selected, then tasks can be processed concurrently instead of sequentially.
	This check box is selected by default for Plan File Refresh and File Processing tasks. For other task types, this option is not selected by default.
Override Log Level for this Task	By default, Scheduler jobs perform logging at the same level that is specified for the application. If necessary, you can override the logging level for a particular task, so that it always runs at a specified logging level. You may want to do this if you encounter performance issues for tasks that generate a lot of logged messages.
	To do this, select the check box for Override Log Level for this Task , then select the desired logging level from the drop-down list.
	NOTE: This option is only available for File Processing tasks.

NOTE: Older systems may see a setting named **Workbook processing engine to use**. If this option is present, it should always be set to **Axiom Web Engine**. Use of Excel for processing on the Scheduler server is no longer supported. All Scheduler tasks that involve spreadsheet processing are processed using the same spreadsheet emulation engine as the Windows Client.

Iteration

This section can be used to optionally enable iterative processing for the task. For more information, see Using iterative task processing.

Item	Description
Iterate this Task	Specifies whether iterative processing is enabled for the task. If enabled, then the task will be performed N times, where N is the number of unique items in the specified iteration column. Job variables can be used to apply the current iteration value and iteration number to the task.

Item	Description
Create a Subordinate Job for each iteration	Specifies whether each iteration is processed as a separate subordinate job. By default, this is disabled, which means that all iterations are processed sequentially within the overall subordinate job created to process the iterations.
	If enabled, then each iteration is processed as a separate subordinate job, enabling concurrent execution of multiple iterations. This option should only be enabled if the order of iteration processing is not important.
Column	The column that contains the values to iterate over. Use Table.Column syntax to specify the column. Multiple-level lookups can be used.
	For example, if you specify Dept.Region, then the task will be processed once for each unique region value in the column (after applying any filter to limit the list of values).
Group By	Optional. By default, the group by column is the same as the iteration column, so that the task is processed once for each unique value in the iteration column. However, if needed, you can specify a different grouping level.
	You can use any column or columns that would be valid as the "sum by" level for an Axiom query, where the primary table is the table specified for the iteration column.
Order By	Optional. By default, the values are sorted based on the iteration column, in ascending order. You can specify a different sort column, or use the same sort column but change the order to descending.
	The sort order is ascending unless the keyword <code>desc</code> is used to specify descending order. For example:
	Dept.Dept desc
Filter	Optional. A filter criteria statement to limit the list of values for the iterative processing. You can use any filter that is valid against the source table (the table of the iteration column).

Active Directory Import task

This task imports users from Active Directory groups into Axiom Capital Tracking security. For more information on using Active Directory integration with Axiom Capital Tracking, see the *Security Guide*.

This task has three tabs of settings: Source Directory, Notification, and Preview Import.

NOTE: The user running this task must be an administrator or have the **Administer Security** permission.

For Axiom Cloud systems, the Active Directory Import task can import users from your local Active Directory by use of the Axiom Cloud Integration Service. If you have a remote data connection that is enabled for user authentication, this task will use that connection when the job is executed by Scheduler.

Source Directory tab

On this tab, you specify the domain to import from and the groups to import.

Item	Description
Domain or Server	 Select either Domain or Server to specify the source domain for the import. If you select Domain, enter the name of the domain. If you select Server, enter the name of the domain controller server.
	The server option is available in case you are not currently logged into the source domain, and your current domain does not have access to the source domain. In this case, you must use domain credentials in order to access the source domain.
	Only one domain can be selected per import task. If you want to import users from multiple domains into an Axiom Capital Tracking system, then you must create multiple import tasks.
Credentials	Specifies the credentials to use when accessing Active Directory for the import. Select one of the following:
	 Use process credentials: (Default) Use the credentials of the network service account for Axiom Scheduler Server (on-premise installations) or Axiom Cloud Integration Service (Axiom Cloud systems).
	 Specify domain credentials: Enter the credentials of a specified domain User and Password. This option is required if you identified the source domain using the server name instead of the domain name.
Never Enable	Specifies whether the import enables imported users as part of the process:
Users	 If unchecked (default), then newly imported users are enabled as part of the import. Additionally, any existing imported users who have been changed to disabled are re-enabled.
	 If checked, then newly imported users are not enabled as part of the import. A security administrator must modify the security settings after the import is complete to enable the new users. Existing imported users retain their current enabled status.

ltem	Description
Groups to import	The Active Directory groups for which members will be imported into Axiom Capital Tracking Security.
	 Click Add to select from a list of groups for the specified domain. If the specified domain name is not valid or if Axiom Capital Tracking cannot connect to it, then an error will result when attempting to add groups.
	• If you need to remove a group, select the group and click Remove.
	• Click Role Mapping to define mappings for the selected groups. If a mapping exists for a group, then when users are imported for that group they are automatically assigned to the mapped role and subsystem. See the discussion following this table for more information.

Role mapping

In the **Role Mapping** dialog, click **Add mapping** (the plus icon) to add a role mapping for a group. Then complete the following:

- In the **Directory Group** column, select the Active Directory group to be mapped.
- In the Axiom Role column, select the role to be assigned to users in that group. If you want to map the group to more than one role, add another mapping row. You can select None if you do not want the users in the group to be assigned to any role.
- In the **Subsystem** column, select the subsystem for users in that group. If you want to map the group to more than one subsystem, add another mapping row. This option only displays if subsystems are enabled for your system.
- In the User Type column, select the license type for the imported users. The default license type is **Standard**.
- In the Authentication Type column, select the authentication type for the imported users, Windows User or SAML. The default authentication type is Windows User. Note that the selected authentication type will be assigned to users regardless of whether that authentication type is currently enabled for the system.

You can map each group to multiple roles and subsystems. If a group has no defined mappings, then the users will not be assigned to any roles or subsystems. If the import creates new users without mappings, the assigned user type is Standard and the assigned authentication type is Windows User.

To remove a mapping, select the mapping in the grid and then click **Remove mapping** (the X icon). If users have already been imported using this mapping, removing the mapping will not remove the users from the role or subsystem in subsequent imports (unless other group mappings in the import use the same role or subsystem, and the users are not also part of that group).

NOTE: If a user belongs to multiple mappings—either multiple mappings for a single group, or multiple mapped groups—then the user will be assigned to the user type and the authentication type for the last-processed mapping.

Notification tab

On this tab, you specify users to be notified when changes are made in Axiom Capital Tracking Security due to the import.

Type in one or more email addresses to be notified. Separate multiple addresses with a semi-colon. For example:

jdoe@axiomepm.com;jsmith@axiomepm.com

When the import task is run, if any users are created or modified in the Axiom Capital Tracking system, an email notification will be sent to the addresses specified here. The email summarizes the changes made. This email notification is independent of any job-level notification settings (which notify based on overall job completion or failure).

We recommend setting up this task-level notification to send emails to the security administrator(s) responsible for maintaining the security settings in Axiom Capital Tracking, so that he or she can define security settings for newly added users, validate changes made to existing users, and perform any other follow-up tasks.

Scheduler job variables can be used in this setting.

Preview Import tab

On this tab, you can preview the import results to test that the import is set up as desired.

To preview the results, click **Preview**. Axiom Capital Tracking processes the import task but does not actually make the changes to the system. Instead, the tab displays a summary of the changes that would result.

The preview shows a list of users that would be added, changed, or disabled.

NOTE: The preview is always executed locally, even for Axiom Cloud systems. The remote data connection to the Cloud Integration Service is only used when the task is executed by Scheduler.

Collect Worksheets task

This task collects sheets from multiple source workbooks and combines them into a single target workbook. You can then save the target workbook to a specified file location, and/or email the workbook.

NOTE: This task is primarily intended for backward-compatibility only. The main method of performing a file collect operation is to use the file processing feature with the File Processing Scheduler task. For more information on setting up a file collect report using file processing, see the *Axiom File Setup Guide*.

Typically, this task would be used at the end of a job with multiple File Processing tasks, to take the results of those tasks and collect them into a single workbook.

Item	Description
Save or Email Workbook	Specifies the delivery option for the target workbook. Select one of the following:
	 Save Workbook: The target workbook is saved to the specified output folder.
	• Email Workbook: The target workbook is emailed to the specified recipients. The file is not saved anywhere on the file system.
	• Save and Email Workbook: The target workbook is both saved and emailed.

Target Workbook

Complete the following settings to define the target workbook:

Item	Description
Output Folder	The folder location where the target workbook will be saved (if you are saving the workbook). Click the folder icon to select a folder location, or type a folder location.
	If the specified folder does not already exist, Axiom Capital Tracking attempts to create it.
	Job variables can be used in this setting.
Output File Name	The name of the target workbook. Job variables can be used in this setting.
File Type	The file type of the target workbook. Select XLS, XLSX, or XLSM.
	NOTE: PDF displays as an option, but it is not supported in this context.

Email Settings

This section only applies if you are emailing the target workbook. The "From" address is always the Scheduler default From address (as defined in the system configuration settings).

ltem	Description
То	Enter the email addresses to receive the target workbook via email. Separate multiple addresses with a semicolon.
Subject Line	The subject line for the email.
Body Text	The body text for the email.

Source Workbooks

In this section, you specify one or more source workbooks from which to collect worksheets. Workbooks are identified by folder location. Within a folder location, you can specify one or more workbooks by name, or by using wildcards, or by using *.* to collect all workbooks at the location.

All sheets in each source workbook will be collected. Ideally, you will be collecting from workbooks that only contain relevant sheets (for example, no blank "Sheet2," etc.), and where the sheets have unique names. If multiple workbooks have sheets with the same name, the sheets will be incremented by number in the target workbook.

- To add a workbook, click the Add button. In the Edit Workbooks Source dialog, complete the settings as described below, then click OK to add the workbook to the list.
- To remove a workbook, select the workbook in the list and then click the Remove button. Only one workbook can be selected at a time.
- To change the order of workbooks, select the workbook in the list and then click the arrow buttons to move the workbook up or down. Source workbooks are processed in the order they are listed in the grid.

ltem	Description
Folder Path	The folder location of the source workbook(s). Click the folder icon to select a folder location.
	NOTE: The Folder Path location must be accessible by the Scheduler service user account. If you specify a network folder location using the Browse button, the location is automatically entered as a UNC path. If you specify a C: drive location, that will be evaluated as the C: drive of the Scheduler server.
	Job variables can be used in this setting.

Item	Description
Workbooks	The workbooks from which you want to collect worksheets, within the specified folder path.
	 Specify *.* if you want to collect all files in the folder path.
	 Specify individual file names to collect from specific files. Separate multiple file names with semicolons.
	You can use wildcards (* or ?) to specify groups of files that share naming conventions. For example: North*.xls to collect all XLS files where the file name starts with "North".
	Only files with the following file types are valid to be collected: XLS, XLSX, XLSM. If you are using wildcards, the matches must be valid file types, or else the task will fail with an error.
	Job variables can be used in this setting.

Once you have saved a source workbook location, you can edit it by double-clicking the row.

Copy On Demand Plan Files task

This task copies on demand plan files from one file group to another. It performs the same actions as the **Copy On Demand Plan Files** command in the Command Library.

This is an advanced feature and should only be used if it is the only way to achieve the desired population of plan files between two related file groups. It is the responsibility of the solution designer to ensure that the copied plan files will behave as expected in the target file group. For example, the plan file must be designed to dynamically save to the appropriate tables and columns within the context of the new file group.

The Copy On Demand Plan Files task uses two tabs to define the properties of the task.

- Options: Defines the options to be used for the copy operation
- Plan Files: Specifies the plan files to copy

Options tab

The following options are available on the Options tab. Note that all of these options can be changed dynamically by using system variables.

Item	Description
Source File Group	The file group to copy plan files from. Click the folder icon to select a file group. You can select any on-demand file group, or any file group alias that currently points to an on-demand file group.

Item	Description
Destination File Group	The file group to copy plan files to. Click the folder icon to select a file group. You can select any on-demand file group, or any file group alias that currently points to an on-demand file group.
Keep original plan file creator	Specifies whether the plan file creator for the copied plan files is set to the same creator as the original plan files. By default, this option is enabled.
	If this option is disabled, then the plan file creator for the copied plan files is set to the user identity used by the Scheduler job when it is run.
Use default template	Specifies whether the copied plan files have the option to adopt the default template of the new file group. This is primarily intended to be used when copying plan files to a file group that uses virtual, form-enabled plan files, so that the copied plan files can be converted to virtual files and use the new template.
	 If disabled (default), then the target file group must contain copies of the original templates that were used to create the plan files from the source file group. If these templates are not present, then the copy process will fail.
	 If enabled, then the copied plan files will be assigned a template as follows: If the target file group contains copies of the original templates that were used to create the plan files from the source file group, the copied plan files use those templates.
	 If the target file group does not contain copies of the original templates, the copied plan files use the default template specified for the target file group in the file group properties.
	If the target file group does not contain copies of the original templates and does not have a designated default template, then the copy process will fail.
Copy plan file attachments	Specifies whether plan file attachments are copied to the target file group when a plan file is copied. By default, this option is enabled.
	If this option is disabled, then plan file attachments will not be copied to the target file group.

ltem	Description
Save plan files after copy	Specifies whether the new plan files are processed and saved in the target file group after the copy is performed. This is intended to perform a save-to-database within the context of the new file group. By default, this option is disabled.
	If you enable this option, then after the plan files are copied to the new file group, they are opened, refreshed, and saved (including a save-to-database). The refresh includes all active Axiom queries where Refresh during document processing is enabled.
	Regardless of whether this option is enabled, if it is ever intended to save the copied plan files in the target file group, then they must be designed so that they save data to the appropriate tables after being copied.
	NOTES:
	 If Process with Utilities is enabled for the target file group, then utility processing is performed instead of normal processing. The default data source is used.
	 If you enable this option but also specify a Copy data utility, then the new plan files are not processed and saved. Instead, the designated utility file is processed for each new plan file.
Copy data utility	Optional. Specifies a utility file to process for each copied plan file. You can select any file in the Utilities folder of the target file group, or a file in the Reports Library.
	The primary purpose of this option is to handle copying virtual plan files between file groups. Because the plan files are virtual, no data exists in the file itself and therefore saving the new plan file will not populate data for the new file group. Instead, you should create a utility file that queries in the necessary data for the original plan file, then saves the necessary data for the new plan file to the appropriate tables for the new file group. Reserved document variables are available to return information in the utility file such as the old plan file code and the new plan file code.
	For more information, see Copy data utility.
	NOTE: Save plan files after copy must be enabled in order to specify a copy data utility. If a utility is specified, then the new plan files are not saved and instead the utility file is processed for each new plan file.
Default Values	Optional. This section can be used to apply default values to any columns in the target plan code table, when the new record is created in the target file group. For more information, see Defining default values.

Plan Files tab

On the **Plan Files** tab, specify the plan files from the source file group that you want to copy to the target file group. There are three different options that you can use to specify the plan files: **Choose from list**, **Use filter**, and **All**.

The most common option when copying plan files using Scheduler is to define a filter. You can dynamically copy a subset of designated plan files using the filter. If the Scheduler task is triggered by using RunEvent, you can pass in the filter from the source of the RunEvent (such as an Axiom form).

Copy a filtered set of plan files

To use a filter to copy a subset of plan files, select **Use Filter**. When the Scheduler task is executed, Axiom Capital Tracking will process only the plan files that meet the filter. You can specify the filter directly, or use a job variable.

To specify the filter, click the Filter Wizard button. You can also manually type a filter criteria statement into the filter box. The filter must use the plan code table of the source file group, or a lookup table. For example: CapReq2019.Transfer=1, where CapReq is the plan code table.

Once you have entered a filter, you can click **Refresh plan file list** to show the plan files that currently match the filter. The refresh feature is intended to help you determine whether you have defined the filter correctly.

If you want to set the filter dynamically, you can use the Filter system variable to override the filter defined in the task. This is intended for use when running Scheduler jobs via RunEvent. If a variable value is specified when triggering the event, such as the value CapReq2019.CapReq IN (45, 67, 98), then that filter statement is used to determine the plan files to be copied instead of the filter defined in the task.

Copy all plan files

To copy all plan files, select **All**. When the Scheduler task is executed, Axiom Capital Tracking will copy all plan files in the file group (except for those hidden via the Show on List column). This is not a common use case for the copy feature, but can be used if needed.

Copy selected plan files

To copy certain plan files, select **Choose from list**, and then select the check boxes for the plan files that you want to copy. When the Scheduler task is executed, Axiom Capital Tracking will copy only the selected plan files. This is not a common use case for the copy feature, but can be used if needed.

NOTE: This option is not available when using a file group alias as the source file group for the task. This is because the alias could change to point to any file group, which could result in a different list of plan files.

Defining default values

When the copy action is performed, the columns for the new record are populated as follows:

- If a value has been defined for a column in the **Default Values** section, that value is used.
- Otherwise, the value from the original record in the source file group is used. This only occurs if the column names match in the source and target tables, and if the column in the target table is a compatible data type to accept the copied value.

If a column exists in the source table but not the target table, that value is ignored and does not cause an error. If a column exists in the target table but not in the source table, then it is only populated during the copy action if a default value has been defined. If the target table contains columns with lookup relationships, those columns must be populated with valid values (either from the original record or by using default values) or else the copy action will fail.

To define default values for the new records:

- Click the plus button + to add a new column/value pair to the **Default Values** section.
- In the left-hand box, type the name of the column in the target plan code table. For example: SourceID. Do not use Table.Column syntax.
- In the right-hand box, type the value to be placed in this column. You can enter a "hard-coded" value, or you can enter the name of a column from the source plan code table in brackets to use the value from that column. For example, [CapID]. The column reference is only necessary if you want the source column value to be placed in a column that has a different name than the source column. If the columns have the same name, the value will be copied automatically as noted previously in this section.

For both the column name and the value, you can use file group variables via a file group alias. Axiom Capital Tracking looks up the current target of the alias, and finds the current value of the designated variable within that file group. Built-in variables and custom variables can both be used. To reference a variable, use the following syntax:

```
{ FileGroupAliasName.VariableName }
```

For example: {CP_CurrentYear.FileGroupYear} returns the file group year for the file group that is currently the target of the CP_CurrentYear alias.

Scheduler job variables can also be used in the column name and in the value.

Overriding task settings using system variables

All of the settings for the Copy On Demand Plan Files task can be overridden using system variables. This is intended for use when the task is being triggered by RunEvent (such as from within an Axiom form), and you want to pass in variable values to determine how the task is run.

The variable names for this task are as follows:

Variable	Description
CopyDataSourceFileGroupID	Overrides the Source File Group . Must be set to a valid file group ID. File group names or alias names cannot be used.
CopyDataTargetFileGroupID	Overrides the Destination File Group . Must be set to a valid file group ID. File group names or alias names cannot be used.
CopyDataUtilityPath	Overrides the Copy data utility . Must be set to a valid document path in Axiom Capital Tracking.
Filter	Overrides the Plan File Filter to specify the plan files to copy. Must be set to a valid filter criteria statement.
KeepOriginalPlanFileCreator	Overrides the option Keep original plan file creator. Must be set to a valid Boolean value (True/False).
UseDefaultTemplate	Overrides the option Use default template . Must be set to a valid Boolean value (True/False).
CopyPlanFileAttachments	Overrides the option Copy plan file attachments . Must be set to a valid Boolean value (True/False).
SavePlanFilesAfterCopy	Overrides the option Save plan files after copy . Must be set to a valid Boolean value (True/False).

To override task properties using these variables:

Add the variables that you want to use to the Job Variables tab. For example, if you want to
override the source and target file groups, the copy data utility, and the plan file filter, then add
those variables to the Job Variables tab. You do not need to add a variable name if you do not
plan to override it.

Scheduled Jobs		
General	Job values	
Job Variables Scheduling Rules	Variable Name	Default Value
Event Handlers Notification Tasks	CopyDataSourceFileGroupID	
	CopyDataTargetFileGroupID	
	CopyDataUtilityPath	
Copy On Demand Plan Files Job Results	Filter	

Example Job Variables tab to override certain settings for the copy task

You do not need to define a default value for the variable. If the value is blank, then the setting defined in the task is used. The corresponding task property will only be overridden if the variable has a defined value.

• You do not need to add the variables to the task properties. The variables automatically overwrite the task properties if they have defined values.

• When configuring RunEvent, define values for the variables as needed. For example, you could have a form where you allow the user to select the source and target file group for the copy action. Based on the user's selected file group names, you can use the GetFileGroupID function to determine the IDs for those file groups. You can then pass those IDs as variable values for the variables CopyDataSourceFileGroupID and CopyDataTargetFileGroupID.

A Shortcut Properties		
Choose Sho	rtcut	
Shortcut Target		
command://RunEve	nt	X
Shortcut Parameter	s	
Event Name	CopyPF	
Result Message		
Processing Step	Form - After Updating Values *	
Event Variables		4
CopyDataSourceF	ileGroupID [Variables!D20]	×
CopyDataTargetFi	leGroupID [Variables!D21]	\rightarrow
CopyDataUtilityPa	th [Variables!D22]	×
Filter	[Variables!D23]	×
	OK	Cancel

Example RunEvent properties to pass certain variable values to the copy task

Plan file process considerations

If the target file group has an active plan file process, the new plan file is started in that process as part of the plan file creation. The process initiator for the plan file is set as follows:

- If the plan file process has a designated Process Initiator Column, the user listed in that column is the process initiator.
- If the plan file process does not have a Process Initiator Column, or the column value is blank, then:
 - If Keep original plan file creator is enabled for the command, then the original plan file creator is the process initiator.
 - Otherwise, the user performing the copy operation is the process initiator.

Copy data utility

If a Copy data utility is specified, this processing is performed as follows:

- The selected plan files are first copied to the new file group. If the plan files are virtual, then the placeholder document records are copied instead of physical plan files.
- The utility file is opened once before processing begins. Any data lookups or Axiom queries that are configured to refresh on open are executed at that time.
- The utility file is then iteratively processed for each new plan file as follows:
 - Document variables are set in the utility, and the workbook is calculated.
 - Axiom queries set to Refresh during document processing are refreshed.
 - A save-to-database is executed.

The utility file is *not* closed and reopened for each new plan file. All processing occurs within the same file session, similar to when performing multipass file processing.

The following reserved document variables are available to the utility file, to be returned using GetDocumentInfo. These variables return necessary information about the copied plan files and the source and target file groups.

Variable	Description
SourceFileGroupID	The ID of the source file group. You can use this ID in functions such as GetFileGroupVariable—for example, to return the name of the data table to query from the source file group.
SourcePlanCode	The plan code of the original plan file from the source file group. You can use this code to filter Axiom queries to return data for the original plan file.
TargetFileGroupID	The ID of the target file group. You can use this ID in functions such as GetFileGroupVariable—for example, to return the name of the data table to save data to for the target file group.
TargetPlanCode	The plan code of the new plan file in the target file group. You can use this code to save data for the new plan file.

For example, GetDocumentInfo("Variable", "SourceFileGroupID") returns the ID of the source file group.

Create Plan Files task

This task creates plan files for a file group. It works the same way as the **Create Plan Files** utility that is available from the file group menu.

This task has two tabs of settings in the Task Details area: General and Plan Files.

NOTE: If you are using Create Plan Files to create new on-demand plan files, those plan files will be automatically started in the designated **Plan File Process** for the file group. This only applies when creating a brand new plan file. If an existing plan file is overwritten, its process status will be left as is.

General tab

The following settings are available on the General tab:

Item	Description
Select File Group	The file group for which plan files will be created. You can select any file group or file group alias.
	If the Scheduler job is stored in a file group Utilities folder, then you can select Use Current File Group to automatically use the file group that the Scheduler job belongs to. This is the recommended approach when the Scheduler job belongs to a file group, so that it will automatically update to point to the current file group when the file group is cloned.
	NOTE: If the task uses an alias, then you cannot select individual plan files on the Plan Files tab. Only the Use Filter and All options are available.
Overwrite existing plan	By default, this option is not selected, which means that existing plan files will not be overwritten, even if the plan file is selected to be created.
files?	If selected, existing plan files will be overwritten.

Plan Files tab

On the Plan Files tab, specify the plan files that you want to create. This tab lists all plan codes that you have the right to access. (If a plan code has been set to **False** in the designated **Show On List Column** for the plan code table, then it is not available in this list.)

You can create plan files in any of the following ways:

• Create all plan files: To create all plan files, select All. This will cause all plan files to be created, for all existing and future plan codes.

Alternatively, you can select **Choose from list** and then select the check box in the column header, causing all plan codes to be selected, but then the list of plan codes is fixed and will not adjust for any future changes. For example, if you add a new department in the future, that new department will only be created by this task if you use the **All** option.

• Create selected plan files: To create certain plan files, select Choose from list and then select the check boxes for the desired plan codes.

To find the plan files you are looking for, you can sort, filter, and group the list using standard Axiom grid features. You can show additional columns and hide columns by right-clicking in the column header. If you have filtered the list, you can select the check box in the header to select only the plan codes that currently display in the dialog.

NOTE: This option is not available if the file group for the task is an alias. This is because the list of plan files could change when the alias target changes.

• Create a subset of plan files using a filter: To use a filter to create a subset of plan files, select Use filter, and then type a filter into the filter box. You can also use the Filter Wizard to build the filter. The filter must use the plan code table or a reference table that the plan code table links to. For example: DEPT.Region='West'.

Once you have entered a filter, you can click **Refresh plan file list** to show only those plan codes that currently match the filter. This feature is to help you determine whether you have defined the filter as intended. The filter will be applied to the list of plan codes when the Scheduler job is processed, so if changes have been made to the plan code table since then, the actual list of plan files processed will reflect those changes.

You can also use a job variable for the filter. For example, you can define a job variable named "filter" and then place the text {filter} in the filter box. This is intended for use when running Scheduler jobs by using the RunEvent function. If a value is specified in the RunEvent function, such as "Filter=dept.region='west'", then that filter will be used in place of the {filter} variable to determine the list of plan files to be created.

NOTE: If you use a variable, and you leave the default value for that variable blank within the **Job Variables** tab, then all plan codes will be created if no value is passed by the RunEvent function (or if the value is invalid). You may want to define a default filter that results in no values (such as 1=0), so that plan files are only created if a valid filter value is passed.

IMPORTANT: For all of these options, the **Overwrite existing plan files** option on the General tab determines whether all selected plan files are created, or only the plan files that do not already exist.

Echo task

This task is used for testing purposes only, to check whether a Scheduler server is running and operational. The task sends a message to the Scheduler server, and asks it to send the message back (an "echo"). If successful, the message displays in the job results. No other action is performed.

Item	Description
Message to Echo	The message to send to the Scheduler server for testing.
	Job variables can be used in this setting.
Sleep Time	The time to pause in between message echoes, in seconds. Scheduler will echo the message once, then wait the specified sleep time, then echo the message again.

Execute Command Adapter task

This task executes a selected command from the Command Library.

Task properties

This task has one property named **Command Name** that specifies the command to execute.

To select a command to execute:

- 1. Click Edit Command.
- 2. In the **Shortcut Properties** dialog, click the browse button [...] to the right of the **Shortcut Target** box.
- 3. In the Axiom Explorer dialog, select the desired command from the Command Library, then click Open.

This returns you to the Shortcut Properties dialog. The selected command is now listed in the Shortcut Target box, and the Shortcut Parameters section displays the parameters for the command.

4. Complete the **Shortcut Parameters** for the command as needed. The available parameters depend on the selected command.

You can later edit the shortcut parameters or select a different command by clicking Edit Command.

Supported commands

Only certain commands are available for execution in this context. The following commands are available:

- File Group Rollover
- Create File Group Scenario

Systems with installed products may have Scheduler jobs that use the following additional commands:

- Create File Group From Prototype
- Upgrade File Group To Prototype Version

These commands can only be configured by product developers. Clients looking for more information on how to use a particular product-delivered Scheduler job should consult their product documentation. (missing or bad snippet)

Execute SQL Command task

This task runs a SQL statement on an Axiom database. If needed, you can also use this task in a userdefined job to run any valid SQL statement on an Axiom database.

NOTE: The SQL statement in this task will be run as the Axiom database user, regardless of which user executes the job.

This task has the following settings:

Item	Description
Source Axiom Database	 Select the database on which to run the SQL statement: Current system database: The database for the current system. Current audit database: The corresponding audit database for the current system.
SQL Command Text	Enter any valid SQL statement to be run against the specified database. To validate the syntax of the SQL statement, click the Check SQL syntax button • . Axiom Capital Tracking sends the statement to your database server to see if the statement can be parsed, resulting in either a success message or an error message.
	Job variables can be used in the SQL statement. The Check SQL syntax button is not available if the statement uses variables.

Export ETL Package task

This task exports data from Axiom Capital Tracking to an external database (same as executing an export from the **Exports Library**).

This task has one setting, **Select ETL Export Package**. This is the name of the export package to process. You can select any export that is defined in the current system.

File Processing task

This task performs file processing on a specified report file or file group utility. The file must already be enabled for file processing. You can use the file processing settings that are already in the file, or you can override any setting.

The following settings must be completed for the task:

Item	Description
File to Process	The report to process for the task. Click the Browse button to open the Axiom Explorer dialog, and then select a report to process. You can select any report that you have access to within the Reports Library or a file group Utilities folder.
	Only one report can be selected for each File Processing task. If you want to process multiple reports, you can add multiple File Processing tasks to the Scheduler job.
	TIP: Once the file is selected, only the file name displays in the task. If you want to know the folder location of the selected file, hover your cursor over the field. The folder location is listed in the tooltip.
	If this Scheduler job is stored in a file group Utilities folder, then you can
	optionally navigate to the report through the Current File Group node at the top of the file groups list. When you do this, the path to the file is stored relative to the current file group, which means that it will automatically update when
	top of the file groups list. When you do this, the path to the file is stored relative to the current file group, which means that it will automatically update when the file group is cloned. This is the recommended method of referencing the report to process when both the Scheduler job and the report belong to the file group.
	top of the file groups list. When you do this, the path to the file is stored relative to the current file group, which means that it will automatically update when the file group is cloned. This is the recommended method of referencing the report to process when both the Scheduler job and the report belong to the file group.
	top of the file groups list. When you do this, the path to the file is stored relative to the current file group, which means that it will automatically update when the file group is cloned. This is the recommended method of referencing the report to process when both the Scheduler job and the report belong to the file group.
	top of the file groups list. When you do this, the path to the file is stored relative to the current file group, which means that it will automatically update when the file group is cloned. This is the recommended method of referencing the report to process when both the Scheduler job and the report belong to the file group.
	top of the file groups list. When you do this, the path to the file is stored relative to the current file group, which means that it will automatically update when the file group is cloned. This is the recommended method of referencing the report to process when both the Scheduler job and the report belong to the file group.
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	top of the file groups list. When you do this, the path to the file is stored relative to the current file group, which means that it will automatically update when the file group is cloned. This is the recommended method of referencing the report to process when both the Scheduler job and the report belong to the file group.
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	top of the file groups list. When you do this, the path to the file is stored relative to the current file group, which means that it will automatically update when the file group is cloned. This is the recommended method of referencing the report to process when both the Scheduler job and the report belong to the file group.

process override file will then be us feature allows you to pass	luler job variable to override the file to process. The sed for processing instead of the original file. This
	in an alternate file to process, when using Run Event e Scheduler job for processing.
<pre>{MyFile}. When the job path in the Axiom Capital T</pre>	r the variable name in curly brackets, such as is executed, this variable must resolve to a valid file Tracking file repository. Note that it is not valid to ank (the task will <i>not</i> use the original file to process).
NOTES:	
visible in client system	s only exposed to product developers. It is only ns if the job is delivered as part of a product package ble is specified in that job.
the override feature is	eld must point to a valid file for file processing when s used, even though that file will never actually be k. If the file to process is missing or invalid, then the l.
Process Specifies whether the repo	rt will be run using multipass processing.
	d, multipass processing is performed. This is File Output > File Processing > Process File
	rocessing is not performed and multipass settings do This is equivalent to selecting File Output > File ile.
multipass settings, then yo file and define them in the "basic mode" settings (spe automatically completes th	s Multipass, but the file does not have any defined ou must override the blank multipass settings for the equivalent of "advanced mode." If you want to use ecify only a source column and Axiom Capital Tracking he rest of the settings for you), then you should edit mode multipass settings so that they can be inherited
	calculations are enabled for the file during you will leave this option disabled.
during the Axiom query ref	nen iterative calculations are enabled for the file fresh process. The iterative calculation settings are iterations and a maximum change value of .001.
For more information on it	terative calculations, see the Microsoft Excel Help.

Advanced options

This section only displays if multipass processing is enabled for the task, and the task uses settings that are eligible for parallel processing. Click on the down arrow next to the title to expand the section and view the options.

Parallel processing for file processing tasks is performed based on multipass passes. With certain task settings, multiple passes can be separated into sub-jobs, which can then be processed at the same time (in parallel). This can improve the performance of the task.

For example, imagine that you are multipass processing a file by department. If the task is processed sequentially, then the task would process Dept 100 and finish it, then move to Dept 110 and finish it, etc. When parallel processing is used instead, Depts 100-199 can be separated into one sub-job, Depts 200-299 into another sub-job, etc. Because the sub-jobs are processed in parallel, multiple departments are processed at the same time, so the overall task can complete more quickly.

Item	Description
Maximum Parallel Jobs	The maximum number of subordinate jobs to run in parallel. The default number is 4.
	This is the total number of sub-jobs that can be run at the same time for this task. Ultimately the number of sub-jobs that are run in parallel depends on the number of Scheduler threads that have been configured for use at your organization, and the number of Scheduler threads that are currently available (threads that are not processing other higher-priority jobs).
Processing Batch Size	The number of multipass passes to include in each sub-job at a time. The default number is 10 for eligible snapshot and export processes, and 7000 for eligible save-to-database processes (save once at end).
	Passes are determined based on the multipass list of items. For example, if you are processing by department (DEPT.DEPT), then each department is a separate pass. If the batch size is set to 10, then each sub-job would process 10 departments at a time.
	In most cases, the default settings are sufficient. If you are experiencing lengthy processing times and want to optimize performance, you can adjust this setting as follows: divide the number of passes by the number of available Scheduler threads. For example, if there will be 100 passes and there are 4 Scheduler threads, set the batch size to 25.

NOTES:

- For save processes, only "save once at end" processes are eligible for parallel processing. In this case, the records to be saved to the database are extracted after each pass to a central temporary table. Once all passes are complete, then all records are saved to the database from the temporary table. Save processes where data is saved directly after each pass are not eligible, because these processes may depend on sequential processing.
- There is no way to disable parallel processing if the task is eligible; however, you can adjust the parallel processing settings if desired.

File processing settings

Once you have selected a file to process, the file processing settings from that file display within the task as read-only. You can leave the settings as they are, or you can override any setting.

- To override a setting, select the **Override** check box to the right of the setting. The setting becomes editable, and you can change it. The change only applies to the file processing task—the setting remains unchanged within the file.
- If you override a setting, make sure that any related settings make sense in the context of the change. For example, if File Generation is set to Multiple Output Files, and you override it to be Single Output File, then you should also check the Sheet Names setting to make sure that you will end up with unique sheet names within the file.

NOTE: If the target file for the task uses **File Collect** or **Batch** processing, then it is not possible to override the settings on the File Collect Configuration Sheet or the Batch Control Sheet.

For more details on file processing settings, see the Axiom File Setup Guide.

Note the following requirements when running file processing using Scheduler:

- The **Output Folder** location must be accessible by the Scheduler service user account. If you specify a network folder location using the Browse button, the location is automatically entered as a UNC path. If you specify a C: drive location, that location will be evaluated as the C: drive of the Scheduler server.
- If the file processing type is **Print**, the Scheduler server(s) must be configured to access the specified printer. This may require the assistance of your IT department.

Job variables can be used in any file processing setting that accepts a typed user input.

Batch variables

If the file has defined batch variables, you can specify variable values to be used for the file processing task. When the task is executed, any specified variable values are temporarily placed within the file, within the designated cell for that variable value. The file can be set up to use the variable value in some way during processing.

Item	Description
Variable Names	The names of the variables, as defined in the File Processing Control Sheet for the source file. If no names are listed, then no variables are defined in the file.
Variable Values	The variable values to be placed within the file when the file processing task is executed.

Job variables can be used in the batch variable settings. For example, a job variable can be used as the value for a batch variable.

Import ETL Package task

This task imports data into Axiom Capital Tracking (same as executing an import from the **Imports** menu).

NOTE: If the import package is configured to **Ignore lookup and key errors**, then if errors are found the execution status of the job will be Partial Success. This will trigger an email notification if the job is configured to notify only on error.

Item	Description
Select ETL Import Package	The import package to process. You can select any import that is defined in the current system.
Source Filename	The path and name of the source file. This option only applies in the following situations:
	 The import is configured to pull data from a source file (instead of a database table).
	 The import is configured to prompt the user for the source file during execution.
	If the import is configured to always use the same source file, then that file displays for reference in the Source Filename box, but it is grayed out and cannot be changed.
	Job variables can be used in this setting.
Package	Specifies values for any variables used in the import package.
Variables	Variables are listed in the right-hand side of the grid. Use the drop-down list next to the variable name to select from the defined set of choices, or type in a value.
	Job variables can be used in this setting.

Process Plan Files task

This task processes plan files in a file group. It performs the same actions as the **Process Plan Files** utility available from the file group menu.

The Process Plan Files task uses several tabs to define different options. The available tabs and the options on those tabs depend on the selected **Processing Mode** on the **Options** tab.

- Options: Defines the overall processing mode and processing options
- Plan Files: Specifies the plan files to process
- Axiom Queries: Specifies which Axiom queries to run in plan files (only applies to Normal Processing)
- Utilities: Specifies which data source to use for utility processing (only applies to Process with Utilities)
- Processing Variables: Defines variables to pass into plan files from Scheduler, and to Scheduler from plan files

Options tab

The following options are available on the Options tab:

Item	Description
Processing Mode	Select the type of processing to perform:
	 Normal Processing: Plan files are opened, refreshed, and saved. You can configure which actions occur.
	 Process with Utilities: A list of utilities is iteratively processed per plan file. Utilities are opened, refreshed with data for each plan code, and saved. This is primarily intended for processing form-enabled plan files with embedded forms.
	 Update Persistent Plan Files: Update existing plan files for text, formatting, or formula fixes. This is an advanced feature.
	 Process with Custom Utility: Plan files are processed using a custom utility provided by Axiom Support. This is an advanced feature.
	The default processing mode is Normal Processing. However, if the file group has been configured so that utility processing is the default processing mode for that file group, then Process with Utilities is selected by default.

Item	Description
Select File Group	The file group for which plan files will be processed. You can select any file group or file group alias, including file group scenarios (click Show Scenarios in the Choose File Group dialog to show scenarios in the file group list).
	If the Scheduler job is stored in a file group Utilities folder, then you can select Use Current File Group to automatically use the file group that the Scheduler job belongs to. This is the recommended approach when the Scheduler job belongs to a file group, so that it will automatically update to point to the current file group when the file group is cloned.
	NOTE: If the task uses an alias, then you cannot select individual plan files on the Plan Files tab. Only the Use Filter and All options are available.
Advanced Options: Worker Batch Size	Optional. Specifies the number of plan files to be processed in each batch. The batch size must be a number between 10 and 100.
	By default this is left blank, which means that the batch size is automatically calculated based on the number of plan files to be processed divided by the total number of threads on all enabled Scheduler servers. Generally speaking, you should not customize this setting unless you are advised to by Axiom Capital Tracking Support.
	NOTE: Each batch of plan files is processed by a subordinate job. These subordinate jobs are automatically created for the Process Plan Files task and are processed in parallel, dependent on the number of Scheduler threads that are available at any one time.

Options for Normal Processing mode

If Normal Processing is the selected processing mode, the following additional options are available on the Options tab:

Option	Description
Save document after processing	Specifies whether plan files are saved during processing. This option is selected by default.
	This option does <i>not</i> cause a save-to-database to be performed—that option must be selected separately.
	NOTES:
	 If this option is not selected, then the utility will open the file as read-only and will not attempt to acquire the document lock before processing.
	 If the file group uses virtual plan files, this option does not apply because the plan files cannot be saved. However, if the option is enabled, Axiom Capital Tracking will attempt to acquire the document lock before processing, which is not necessary. This option should not be enabled when processing virtual plan files.
Run Save To Database on plan files after processing	Specifies whether a save-to-database is performed in plan files during processing. This option is selected by default.
	This option does <i>not</i> cause the file itself to be saved—that option must be selected separately. It is not required to save the file in order to perform a save-to-database.
Create a plan file restore point before processing	If selected, then a plan file restore point will be created before processing begins. This option is not selected by default.
	Restore points can be used to restore plan files to the state they were in before changes were made.
	NOTE: If the file group uses virtual plan files, this option does not apply. Plan files are not saved and therefore restore points are irrelevant.

Options for Process with Utilities

If **Process with Utilities** is the selected processing mode, there are no additional options on the Options tab.

Plan files are not saved when using Process with Utilities, and plan file restore points are not created. When using this mode, the processing is being performed in the utility files, not in the plan files, so it is not necessary to save the plan files. Additionally, in most cases the plan files used with this mode are virtual form-enabled plan files, so the save and restore options are irrelevant.

Options for Update Persistent Plan Files

If **Update Persistent Plan Files** is the selected processing mode, the following additional option is available on the Options tab:

Option	Description
Report File	Click the Browse button to select the report file that is configured with the PlanFileReconfig_ControlSheet. This file must be saved in the Reports Library.
	This control sheet contains the settings that will be applied to plan files during processing.

Plan files are always saved when using this processing option, and plan file restore points are always created before processing. A save-to-database is not performed in this mode, so if you need to save data, you should process plan files using Normal Processing after you have verified the results of the plan file update.

Options for Process with Custom Utility

If **Process with Custom Utility** is the selected processing mode, the following additional options are available on the Options tab:

Item	Description
Report File	Click the Browse button to select the Microsoft Excel spreadsheet file that contains the VBA custom utility. The file must be saved in the Reports Library.
VBA Module	Select the VBA module to run as part of this utility. The drop-down list shows the VBA modules available in the selected file.
VBA Function	Select the VBA function to run as part of this utility. The drop-down list shows the VBA functions available in the selected module.

Plan files are always saved when using this processing option, and plan file restore points are always created before processing. A save-to-database is not performed in this mode, so if you need to save data, you should process plan files using Normal Processing after you have verified the results of the custom utility processing.

Plan Files tab

On the **Plan Files** tab, specify the plan files that you want to process. There are three different options that you can use to specify the plan files: **Choose from list**, **Use filter**, and **All**. You should use the option that corresponds to how many plan files you want to process—all plan files, or a subset of plan files. If you want to process a subset of plan files, you can select individual files to process or you can use a filter to define the subset.

NOTES:

- If a plan file is locked by another user when the task is executed, then processing for that file will fail. Failures are noted in the result history for the job.
- If a plan file has not yet been created for a particular plan code, then that plan code will not display in this list and will be ignored when processing. Scheduler does not support creating plan files as part of the Process Plan Files task (you must use the separate Create Plan Files task for this purpose).
- If the file group uses a **Show on List** column, then any plan code that is set to **False** will not display in the plan file list and will be ignored when processing.

Process all plan files

To process all plan files, select **All**. The list of all plan files is generated each time the Scheduler task is executed, so that if new plan files have been added then those new plan files will be included in the processing (the reverse is also true if any plan files have been removed).

Alternatively, you can select **Choose from list** and then select the check box in the column header, causing all current plan codes to be selected. However, in this case the list of selected plan codes is fixed and therefore will not automatically adjust for any future changes.

Process selected plan files

To process certain plan files, select **Choose from list**, and then select the check boxes for the plan files that you want to process. When the Scheduler task is executed, Axiom Capital Tracking will process only the selected plan files.

To find the plan files you are looking for, you can sort, filter, and group the list using standard Axiom grid features. You can show additional columns and hide columns by right-clicking in the column header. If you have filtered the list, you can select the check box in the header to select only the plan files that currently display in the dialog.

NOTE: This option is not available if the file group for the task is an alias. This is because the list of plan files could change when the alias target changes.

Process a filtered set of plan files

To use a filter to process a subset of plan files, select **Use Filter**. When the Scheduler task is executed, Axiom Capital Tracking will process only the plan files that meet the filter.

You can use the Filter Wizard to create the filter, or you can manually type a filter criteria statement into the filter box. The filter must use the plan code table or a lookup table. For example: DEPT.Region='US West' where Dept is the plan code table.

Once you have entered a filter, you can click **Refresh plan file list** to show the plan files that currently match the filter. The refresh feature is intended to help you determine whether you have defined the filter correctly.

You can also use a job variable for the filter. For example, you can define a job variable named "filter" and then place the text {filter} in the filter box. This is intended for use when running Scheduler jobs via RunEvent. If a variable value is specified when the event is triggered, such as the value dept.region='west', then that filter statement will replace the {filter} variable and will be used to determine the list of plan files to be processed.

NOTE: If you use a variable, and you leave the default value for that variable blank within the **Job Variables** tab, then all plan codes will be processed if no value is passed by the RunEvent function. You may want to define a default filter that results in no values (such as 1=0), so that plan files are only processed if a valid filter value is passed.

Axiom Queries

On the **Axiom Queries** tab, select the queries that you want to run in the plan files. By default, all listed queries are selected. This tab only applies when using **Normal Processing** mode.

If you do not want to run a particular query, you can clear the check box. You can select or clear individual check boxes, or you can use the check box in the header to select or clear all queries currently displayed in the list. You can sort, filter, and group the list using standard Axiom grid functionality.

ption:	s Plan Files A	xiom Queries			
	Axiom Queries f ocessed.	for selected Plan Files are	shown in the list below. Selected Axiom Quer	ies will be run when the rel	ated Plan Fi
✓	Template	 Worksheet 	Axiom Query	Refresh On Open	Dynamic
✓	Master	Stat_Rev	AQ1: Stat_Rev	False	False
✓	Master	Stat_Rev	AQ2: NetRevSection	False	True
✓	Master	Stat_Rev	AQ3: Forecast	False	True
✓	Master	Stat_Rev	AQ4: ColHide On Open	True	False
✓	Master	Stat_Rev	AQ5: Statistics On Open	True	False
✓	Master	JobCode	AQ1: Labor Configuration Driver On Open	True	False
\checkmark	Master	JobCode	AQ2: Labor Configuration Driver On Open	True	False

Example Axiom Queries tab

The list of Axiom queries is based on the source templates that were used to create the plan files. Only Axiom queries that meet the following criteria are eligible for selection:

- Active is set to On, or the setting uses a formula.
- Refresh during document processing is set to On.

If a query uses a formula for the Active setting, this means the query is dynamic and may or may not be run, depending on how the formula resolves in each plan file to be processed. When a particular plan file is processed, each selected query will be evaluated based on the current settings in that plan file. If both **Active** and **Refresh during document processing** are **On** for that plan file, then the query will be run. If either or both settings are **Off** for that plan file, the query will not be run. You can tell whether a query is dynamic or not by looking at the **Dynamic** column in the query list.

If a query is *not* selected on this tab, then that query will not be run in any plan files during processing, regardless of whether **Active** or **Refresh during document processing** are enabled in the plan file.

The plan file selection on the Plan Files tab affects the Axiom query list as follows:

- If you have selected individual plan files, then only the eligible queries for the source templates of the selected plan files are shown.
- If you have selected All or Use Filter, then all eligible queries for all used templates are shown. If the file group has templates that have not been used to create any plan files, then those templates are not included in the list.

The listed queries are identified by template, worksheet, and query name. The following additional properties are also listed for each query:

- **Refresh On Open**: Indicates whether the Axiom query is configured to refresh automatically when the file is opened. This is for information purposes only, to help you determine whether the query needs to be included in the processing. The Refresh on Open status is ignored by Process Plan Files—if the query is selected it will be run along with the other selected queries, and if it is not selected it will not be run.
- **Dynamic**: Indicates whether the query is dynamically enabled. True means that the query uses a formula for the **Active** setting.

NOTE: If a query is listed on this tab but it is grayed out and unavailable for selection, that means that although the query is active (either directly or dynamically), the query is not eligible to be run using Process Plan Files (because the setting **Refresh during document processing** is set to **Off**). This query is listed for your information only, so that you understand the query cannot be run as part of the process.

Utilities tab

On the **Utilities** tab, select the ProcessPlanFileUtilities data source to use during processing. This data source determines which utility files are processed and the processing order. This tab only applies when using **Process with Utilities** mode.

Options Plan Files	Utilities			
The list below sho	vs the selected utilities data source for each template in the currently selected plan files.			
Template Name Utilities Data Source				
FormTemplate	Set1 ~			

Example Utilities tab

For each template listed, use the **Utilities Data Source** field to select the data source to use for plan files created from that template.

- If the template only has one data source, that data source is selected.
- If the template has multiple data sources, then the data source marked as the default data source is selected by default. If desired, you can use the drop-down list to select a different data source.

When plan files are processed, Axiom Capital Tracking reads the specified data source in each plan file to determine the utilities to be processed for that plan file.

The plan file selection on the Plan Files tab affects the Utilities list as follows:

- If you have selected individual plan files, then only the templates used to create the selected plan files are shown.
- If you have selected All or Use Filter, then all used templates are shown. If the file group has templates that have not been used to create any plan files, then those templates are not included in the list.

Processing Variables

This tab can be used to define variables to pass into plan files before processing begins, and to pass variables back to the Scheduler job after processing has been performed. This tab is optional and is only used in special situations.

Pre-Processing Document Variables

This section can be used to pass document variables into plan files before processing. This can impact the processing of plan files if the files are configured to use the variable values in some way.

For each pre-processing document variable, you can specify a variable name and a variable value. The plan files must be set up with GetDocumentInfo functions that return the values for the specified variables.

- To add a variable, click the Add button to add a row to the list. Complete the settings for the variable as described below.
- To remove a variable, select the variable in the list and then click the Remove button. Only one variable can be selected at a time.

To edit the variable settings, double-click the applicable cell to make the cell contents editable. When you are finished editing, you can press the Enter key or Tab key to exit the cell, or click outside of the cell.

Item	Description
Variable Name	The name of the variable. Do not enclose the variable name in curly brackets (you are not <i>using</i> the variable here, you are defining its value).
Variable Value	The value of the variable. The value can be a "hard-coded" value, or it can be a job variable that will be resolved at time of processing.
	If you use a job variable to define the value, the job variable must be enclosed in curly brackets.

Pre-Processing Workbook Variables

This section can be used to pass values into plan files before processing. This can impact the processing of plan files if the files are configured to use the values in some way.

For each pre-processing variable, you can specify a workbook location to place the value, and the value to be placed.

Item	Description
Workbook Location	The location in the workbook for the value to be placed. Any existing value in this location will be overwritten for the duration of the processing. If the file is saved as part of the processing, then the value will be saved in the file.
	The location can be specified using <i>SheetName! CellRef</i> syntax (for example: Report!A13), or by using a named location in the file.
Formula	The value to be placed in the specified workbook location. The value can be a "hard-coded" value, or a formula, or a job variable that will be resolved at time of processing.
	If the value is a formula, the formula is placed into the target cell and calculated in the plan file. The formula can be any formula that would be valid within a spreadsheet in the Axiom client. This includes using Excel functions and Axiom functions. The formula can also use job variables, which will be resolved before placing the formula in the target cell.

The specified location and value will apply to all plan files being processed by the task. If you are going to use pre-processing variables, the location should be predefined in the template and therefore available to all plan files built using that template. If the plan files will be built using multiple templates, then all templates should be set up with the same designated location, or you should set up separate processing tasks based on template type.

Post-Processing Workbook Variables

This section can be used to pass a value from plan files back to the Scheduler job after processing has been performed. This can impact the processing of subsequent tasks in the job if those tasks are configured to use the value in some way.

For each post-processing variable, you can specify the location in the workbook to find the value, and the job variable to use that value.

NOTE: If this task processes multiple plan files, the resulting variable value will be from the last file that was processed.

Item	Description
Workbook Location	The location in the workbook to find the value to be passed to Scheduler. This value will become the value for the assigned job variable for the duration of executing the current job (unless a later process within the same job overwrites the value for the same job variable).
	The location can be specified using <i>SheetName</i> ! <i>CellRef</i> syntax (for example: Report!A13), or by using a named location in the file.
Job Variable	The job variable that you want to use the value in the specified workbook location. Do not enclose the variable name in curly brackets (you are not <i>using</i> the variable here, you are simply referencing the variable name).
	If the job variable does not already exist in the job (on the Job Variables tab), then it will be created. However, in most cases you will want the variable to be already set up with a default value, so that the job does not have validation errors that prevent saving.

The specified location and job variable will apply to all plan files being processed by the task. If you are going to use post-processing variables, the location should be predefined in the template and therefore available to all plan files built using that template. If the plan files will be built using multiple templates, then all templates should be set up with the same designated location, or you should set up separate processing tasks based on template type.

Even though the task may process many plan files, only the job variable value from the last-processed plan file will be used. The plan files must be set up so that all plan files result in the same value after processing, or else your results will vary depending on which plan file was the last file to be processed.

Process Document List task

This task processes a user-defined set of documents. The process operation always calculates the files. In addition, you can opt to run Axiom queries in the files, process alerts in the files, and then perform a save-to-database and/or save the files.

You can process any Axiom-managed Excel files by using this task. The primary intent of the task is to process files such as driver files or report utilities. For example, you may be using Axiom queries and GetData functions in your driver files that need to be updated regularly. Rather than opening, refreshing, and saving each driver file, you can use this task to define the set of files and schedule processing.

NOTES:

- Generally speaking, plan files should not be processed using this task. Instead, the Process Plan Files task should be used.
- This task does not perform *file processing* actions on the file. File processing can be set up for report files and driver files, and can be used to perform actions such as file delivery, using standard or multipass processing. If you want to perform file processing using Scheduler, use the File Processing task.

Documents to process

Specify the documents to be processed when the task is run. Documents are processed sequentially in the order listed.

- To add a document, click the Add button. In the Axiom Explorer dialog, select the file or files that you want to add, and then click Open.
- To remove a document, select the document in the list and then click the Remove button. Only one document can be selected at a time.
- ▲ ▼ To change the order of documents, select the file in the list and then click the arrow buttons to move the file up or down.

Only Axiom-managed Excel files are valid to be processed in the task.

Selecting a document using a file group alias

You may want to specify the document to process using a file group alias, so that the task does not have to be manually updated after rolling over to a new file group for a new year of planning. When you are selecting a document in the Axiom Explorer dialog, you can expand the file group alias to see all of the files in the current target of the alias.

For example, in the following screenshot, the file group alias Current Budget is expanded. Because the alias currently points to the file group Budget 2018, the folders and files under the alias are from Budget 2018. When you select a file or folder, you can see the real file path in the top of Axiom Explorer.

A Axiom Explorer				? ×	<
🕞 🌍 🏂 \Axiom\File Groups\ <mark>Budget 2018</mark> \Utilities					đ
File • View • Open •					
My Files	Name	Modified	Locked By	Size	
🕨 🚖 Favorites	Add New Initiative	7/27/2017 8:34 AM		28 KB	
Recent	Allocations	7/27/2017 8:34 AM		22 KB	
J My Documents	Dudget_assignment	7/27/2017 8:34 AM		39 KB	
File Groups	🖾 см	7/27/2017 8:34 AM		19 KB	
 File Group Aliases Reg Current Budget 	process_metrics	7/27/2017 8:34 AM		14 KB	
Calc Method Libraries					
Drivers					
Plan File Attachments					
📗 Plan Files					
Process Definitions					
Templates					
📗 Utilities					
Workflow					
Scenarios					
🕨 🐼 Current Capital 🗸 🗸	<				>
Allocations Description: Microsoft Excel Worksheet Size: 22 Ki	B Date modified: 7/27/2017 8:34 AM	Locked by:	Open	Close	

Selecting a document to process using a file group alias

When you select a document underneath an alias, the file path is written using alias syntax, so that the Scheduler task will look for the document within the current target of the alias. This path is visible in the tooltip that displays when you hover your cursor over a selected document.

Documents to process				
Allocationsxlsx				
document://{filegroup://Current Budget/alias}\Utilities\Allocations.xlsx				
Processing Options				

File path using file group alias syntax

When the file group alias is updated to point to a new file group, the Scheduler task will use the file in the new file group automatically. If the file does not exist in the new file group, the task will fail with an error.

Processing Options

By default, both options are selected. Axiom queries are refreshed before the save-to-database occurs.

If neither option is selected, then the files are calculated and then saved.

ltem	Description
Perform all enabled Axiom Queries in selected workbooks	If this option is selected, then all eligible Axiom queries in all selected files will be refreshed when the task is run. This option is selected by default.
	Axiom queries are eligible for processing if they are active and use either of the following refresh behaviors: Refresh on File Open and Refresh During Document Processing .
Enable iterative calculation while	Specifies whether iterative calculations are enabled for the file during processing. In most cases you will leave this option disabled.
processing	If this option is selected, then iterative calculations are enabled for the file during the Axiom query refresh process. The iterative calculation settings are fixed at a maximum of 100 iterations and a maximum change value of .001.
	For more information on iterative calculations, see the Microsoft Excel Help.
Save document after processing	If selected, then files will be saved after processing. This option is selected by default. The user executing the task must have Read/Write access to the files.
	This option does <i>not</i> cause a save-to-database to be performed—that option must be selected separately.
	NOTE: If this option is not selected, then the utility will open the file as read-only and will not attempt to acquire the document lock before processing.
Run Save To Database on plan files after processing	If selected, then a save-to-database will be performed after processing. This option is selected by default. The user executing the task must have the Allow Save Data permission to the files.
	This option does <i>not</i> cause the file itself to be saved—that option must be selected separately. It is not required to save the file in order to perform a save-to-database.
Process alerts in selected workbooks	If selected, then alerts in the file will be processed. The file must contain an Alert Control Sheet and one or more alerts must be defined in the file.
	If Axiom queries are enabled for processing as well, the queries will be run before alerts are processed.

Pre-Processing Document Variables

This section can be used to pass document variables into the target files before processing. This can impact processing if the files are configured to use the variable values in some way, such as to filter an Axiom query.

For each pre-processing document variable, you can specify a variable name and a variable value. The target file must be set up with GetDocumentInfo functions that return the values for the specified variables.

- To add a variable, click the Add button to add a row to the list. Complete the settings for the variable as described below.
- To remove a variable, select the variable in the list and then click the Remove button. Only one variable can be selected at a time.

To edit the variable settings, double-click the applicable cell to make the cell contents editable. When you are finished editing, you can press the Enter key or Tab key to exit the cell, or click outside of the cell.

Item	Description
Variable Name	The name of the variable. Do not enclose the variable name in curly brackets (you are not <i>using</i> the variable here, you are defining its value).
Variable Value	The value of the variable. The value can be a "hard-coded" value, or it can be a job variable that will be resolved at time of processing.
	If you use a job variable to define the value, the job variable must be enclosed in curly brackets.

The following example screenshot defines the value for the document variable Dept. The value is defined using the value of a Scheduler job variable {Dept}. A value for Dept can be passed into the Scheduler job when the job is started, and then passed into the target file using the document variable.

Pre-Processing Document Variables			×
Variable Name Variable Value			
Dept	{Dept}		

Pre-Processing Workbook Variables

This section can be used to pass values into the file before processing. This can impact processing if the files are configured to use the values in some way. For each pre-processing variable, you can specify a workbook location to place the value, and the value to be placed.

NOTE: The specified value will be placed in all files listed to process. Therefore, unless all files are set up to use the same location and the same way of deriving the value, you will need to create a separate Process Document List task for each file. If you are not using pre-processing variables, then this does not matter.

- To add a variable, click the Add button to add a row to the list. Complete the settings for the variable as described below.
- To remove a variable, select the variable in the list and then click the Remove button. Only one variable can be selected at a time.
- To change the order of variables, select the variable in the list and then click the arrow buttons to move the variable up or down.

To edit the variable settings, double-click the applicable cell to make the cell contents editable. When you are finished editing, you can press the Enter key or Tab key to exit the cell, or click outside of the cell.

Item	Description
Workbook Location	The location in the workbook for the value to be placed. Any existing value in this location will be overwritten for the duration of the processing. If the file is saved as part of the processing, the value will be saved in the file.
	The location can be specified using <i>SheetName</i> ! <i>CellRef</i> syntax (for example: Report!A13), or by using a named location in the file.
Formula	The value to be placed in the specified workbook location. The value can be a "hard-coded" value, or a formula, or a job variable that will be resolved at time of processing.
	If the value is a formula, the formula is placed into the target cell and calculated in the target file. The formula can be any formula that would be valid within a spreadsheet in the Axiom client. This includes using Excel functions and Axiom functions. The formula can also use job variables, which will be resolved before placing the formula in the target cell.

Post-Processing Workbook Variables

This section can be used to pass a value from the file back to Scheduler after processing has been performed. This can impact the processing of subsequent tasks in the job if those tasks are configured to use the value in some way. For each post-processing variable, you can specify the location in the workbook to find the value, and the job variable to use that value.

NOTES:

- If this task processes multiple documents, the resulting variable value will be from the last document processed.
- If the task is run as a sub-job, then the post-processing variable is not passed back to the "parent" job. The task must be executed as a regular task within the job in order to pass the variable value back to the job.

- To add a variable, click the Add button to add a row to the list. Complete the settings for the variable as described below.
- To remove a variable, select the variable in the list and then click the Remove button. Only one variable can be selected at a time.
- To change the order of variables, select the variable in the list and then click the arrow buttons to move the variable up or down.

To edit the variable settings, double-click the applicable cell to make the cell contents editable. When you are finished editing, you can press the Enter key or Tab key to exit the cell, or click outside of the cell.

Item	Description
Workbook Location	The location in the workbook to find the value to be passed to Scheduler. This value will become the value for the assigned job variable for the duration of executing the current job (unless a later process within the same job overwrites the value for the same job variable).
	The location can be specified using <i>SheetName!CellRef</i> syntax (for example: Report!A13), or by using a named location in the file.
Job Variable	The job variable that you want to use the value in the specified workbook location. Do not enclose the variable name in curly brackets (you are not <i>using</i> the variable here, you are simply referencing the variable name).
	If the job variable does not already exist in the job (on the Job Variables tab), then it will be created when the job is executed. However, in most cases you will want the variable to be already set up with a default value, so that the job does not have validation errors that prevent saving.

Process Template List task

This task processes a user-defined list of file group templates. During processing, any Axiom queries with **Refresh during template processing** enabled are executed and time-stamped, and then the template files are saved.

The primary purpose of this task is to enable use of *time-stamped Axiom queries* with virtual plan files. Because virtual plan files are re-created from template each time they are accessed, Axiom queries cannot be time-stamped within the plan files. Virtual plan files can use the time stamp from the template, but under normal circumstances, Axiom queries are not time-stamped when they are run in templates. However, when Axiom queries are run during template processing, the Last refresh time for the query is updated, which means that the queries can be configured to only run if the primary table has changed.

To use this task to enable time-stamped Axiom queries for virtual plan files, do the following:

• In the template, enable Refresh only if primary table changed since last refresh and Refresh during template processing for the Axiom queries that you want to be time-stamped.

• In Scheduler, create a job with a **Process Template List** task and add the template to the task. Define a scheduling rule for the job as appropriate. For example, you might want the template to be processed nightly.

When the template is processed, the designated Axiom queries will be run if the primary table has changed, and the time stamps are updated. When a virtual plan file that uses this template is opened, the queries will not be run again if the primary table has not changed.

This task should only be used to process Axiom queries that meet the requirements of time-stamped queries.

Templates to process

Specify the templates to be processed when the task is run. Templates are processed sequentially in the order listed. If you have multiple templates to process (in the same or different file groups), you can run them all in the same task.

- To add a template, click the Add button. In the Axiom Explorer dialog, select the file or files that you want to add, and then click Open.
- X To remove a template, select the file in the list and then click the Remove button. Only one file can be selected at a time.
- To change the order of templates, select the file in the list and then click the arrow buttons to move the file up or down.

Normal template behavior rules apply during processing. For example, save-to-database and action codes are not run in templates. The only exception to normal template behavior during this task is that any executed Axiom queries will be time stamped.

Selecting a template using a file group alias

You may want to specify the template to process using a file group alias, so that the task does not have to be manually updated after rolling over to a new file group for a new year of planning. When you are selecting a template in the Axiom Explorer dialog, you can expand the file group alias node to see all of the files in the current target of the alias.

For example, in the following screenshot, the file group alias Current Budget is expanded. Because the alias currently points to the file group Budget 2018, the folders and files under the alias are from Budget 2018. When you select a file or folder, you can see the real file path in the top of Axiom Explorer.

A Axiom Explorer				? ×	
🔇 🕥 🏂 \Axiom\File Groups <mark>\Budg</mark>	<mark>et 2018</mark> \Templates			R	
File • View • Open • 🕅	All Templates				
My Files	Name	Modified	Locked By	Size	
🛧 Favorites	🗊 FormTemplate	7/27/2017 8:34 AM		39 KB	
Recent My Documents	🞲 Master Budget Template	7/27/2017 8:34 AM		53 KB	
File Groups					
 File Group Aliases 					
 Records Anasca Current Budget 					
Calc Method Libraries					
Drivers					
Plan File Attachments					
Plan Files					
Process Definitions					
Templates					
Utilities					
Workflow					
Scenarios					
🕨 🐻 Current Capital 🗸 🗸 🗸	<				
Master Budget Template Description Microsoft Excel Macro-Enabled Worksh		2017 8:34 AM Locked by:	Open	Close	

Selecting a template to process using a file group alias

When you select a template underneath an alias, the file path is written using alias syntax, so that the Scheduler task will look for the template within the current target of the alias. This path is visible in the tooltip that displays when you hover your cursor over a selected template.

•	Templates to process	
	Master Budget Template.xlsx	
	document://{filegroup://Current Budget/alias}\Templates\Master Budget Template.xlsx	

File path using file group alias syntax

When the file group alias is updated to point to a new file group, the Scheduler task will use the file in the new file group automatically. If the file does not exist in the new file group, the task will fail with an error.

Purge System Data task

The Purge System Data task is intended to clean up old data in your system, to help keep your system running efficiently.

NOTE: Scheduler automatically creates a system job for this task (System.SystemDataPurge), which administrators can edit as needed.

This task purges the following data when it is run:

- Scheduler job result history
- Scheduler and system email notifications
- System temp table data
- Audit history
- Alerts

For each category of data, you can specify a number of days of data to keep when the task is run. All results older than the specified number of days will be deleted. Note that 0 days means that no data is purged for that category.

Section	Item	Description
Scheduler Results	Number of days to keep result history	The number of days of job result history to keep when the task is run. By default, this is set to 15 days.
SMTP Messages	Number of days to keep delivered messages and attachment data	The number of days of delivered message data to keep when the task is run. By default, this is set to 15 days.
Temporary Tables	Number of days to keep temp table data	The number of days of temp table data to keep when the task is run. By default, this is set to 15 days.
Audit History	Number of days to keep system history	The number of days of system audit history to keep when the task is run. By default, this is set to 15 days.
		"System history" encompasses all audit data— including prior document versions and deleted documents—except table audit data.
Table History	Number of days to keep table history	The number of days of table audit history to keep when the task is run. By default, this is set to 15 days.
		Table audit data is tracked for tables where Audited is set to True .
Alerts	Number of days to keep alerts	The number of days of alerts to keep when the task is run. By default, this is set to 60 days.

Job variables can be used in all of these settings.

Each purge routine in the task is limited to purging a specific number of rows at a time (50000). If the number of rows to be purged exceeds this limit, then the excess data is retained until the next time the task is run. If you notice data in the database that you expected to be purged, most likely the amount of data to be purged exceeded the limit, and the data will be purged next time the task is run.

Other purged data

This task also cleans up the following items in your system:

- Deleted columns. When a column is deleted from a table in Axiom Capital Tracking, the column is immediately deleted from the associated view (which prevents it from being accessed in the system), but it remains in the base table. This task finishes the process of removing obsolete columns from the base tables.
- Orphaned user folders. If the system contains any user folders that do not match up with existing users, these folders are deleted. Although user folders are deleted when a user is deleted from security, orphaned user folders can result from other processes, such as migrating a system between different management databases.

These items are not associated with any specific task settings; the delete process is performed whenever the task is executed.

Raise Event task

The Raise Event task can be used to trigger other Scheduler jobs for execution, using a named event handler. This task has one required setting:

Item	Description
Event Name	Enter the name of the event that you want to raise for execution. This name must match a defined event handler name in one or more other Scheduler jobs.
	When this task is run, it looks for any jobs that contain the specified event handler name. These jobs are added to the schedule and are eligible to be processed immediately, depending on Scheduler thread availability and any other higher-priority jobs already in the queue.
	NOTE: It is not possible to specify a file group context for the event handler when using Raise Event. Axiom Capital Tracking will run all jobs that contain the specified event handler name, regardless of whether the event handler is associated with a file group.

Event Variables

This section can be used to pass variables into the jobs triggered by the event handler. If the jobs are configured to use the variables, these values can impact how the jobs are processed.

- To add a variable, click the Add button to add a row to the list. Complete the settings for the variable as described below.
- To remove a variable, select the variable in the list and then click the Remove button. Only one variable can be selected at a time.

For each variable, you can specify a variable name and a variable value. To edit the variable settings, double-click the applicable cell to make the cell contents editable. When you are finished editing, you can press the Enter key or Tab key to exit the cell, or click outside of the cell.

Item	Description
Variable Name	The name of the variable. Do not enclose the variable name in curly brackets (you are not <i>using</i> the variable here, you are defining its value).
Variable Value	The value of the variable. The value can be a "hard-coded" value, or it can be a job variable that will be resolved at time of processing.
	If you use a job variable to define the value, the job variable must be enclosed in curly brackets.

Run Excel Macro task

This task runs an Excel macro on an Axiom file.

NOTE: This task is no longer supported because it requires Excel processing on the Scheduler server. It is still available on the task list, but cannot be executed.

Please contact Axiom Capital Tracking support if you need assistance with this task.

Item	Description
Workbook Path	The path and name of the file to run the macro on.
	You can click the Browse button to navigate to the file.
Macro Name	The name of the macro to run.
Macro	If the macro takes arguments, you can enter the argument values here.
Arguments	Click Add to add an argument, Remove to delete the selected argument, or Clear to clear all arguments.

Job variables can be used in all of these settings.

Run Scheduler Job task

This task runs a specified Scheduler job as a subordinate job within the current job. The job containing the Run Scheduler job task is the parent job, and the target job for the task is the child job.

By default, the parent job waits until the child job is complete before continuing to the next task in the parent job. This means that tasks after the Run Scheduler Job task can be reference the results of the child job. For example, the child job may perform a save-to-database. The subsequent tasks in the parent job can access the data saved by the child job.

Task Control options

When you create the Run Scheduler Job task, the options in the **Task Control** section are pre-set as follows:

- The option Create a Subordinate Job for this Task is grayed out. This is because the target job is always run as a subordinate job.
- The option Wait for all Subordinate Jobs to complete before proceeding to the next Task is enabled by default. This means that tasks after the Run Scheduler Job task can be dependent on the target job and reference the results of that job. If you disable this option, then the parent job will continue to the next task in the job immediately after creating the subordinate job—it will not wait for the subordinate job to complete.

Keep in mind that it is not possible to stop processing tasks in the parent job based on the success or failure of the child job. Although Scheduler jobs automatically stop processing if a task fails, the task in this case is just the Run Scheduler Job task. As long as the child job can be successfully added to the Scheduler queue for processing, the Run Scheduler Job task will report success. The ultimate success or failure of that child job is not reported back to the parent job—the parent job only knows when the child job is started and then stopped.

If needed, you can use the option **Process task only if the value of this expression is true** to detect whether a subsequent task in the parent job should be processed. For example, if you know that the child job saves a particular value to the database, you can check for the existence of that value to determine whether to process the task. For more information on using this option, see Conditionally processing tasks in a job.

Target Scheduler job

In the **Task Details** section, use the Browse button to select the target **Scheduler Job**. You can select any job that you have access to in the Scheduled Jobs Library.

When the Run Scheduler Job task is executed, it creates one or more subordinate jobs as needed to execute the tasks in the target Scheduler job. As long as **Wait for all Subordinate Jobs to complete before proceeding to the next Task** remains enabled in the Task Control options, the parent job waits for all subordinate jobs to be completed before moving on to the next task in the parent job.

NOTE: The user executing the job does not need to have security access to the target Scheduler job for Run Scheduler Job. It is assumed that if the user can execute the parent job, the user should be able to execute the target job.

Child Job Values

If the target job for the Run Scheduler Job task has defined job variables, those variables and their default values are listed in this section. The default values are determined as follows:

- If the parent job and the child job have a variable with the same name, the default value is the value defined in the parent job. This value will be passed to the child job and used when the child job is run.
- Otherwise, the default value is the value defined in the child job.

To override a variable value, select the **Override** check box and then click inside the **Override Value** field to enter a value. You can enter a hard-coded value or use a job variable from the parent job. Enter the variable name in curly brackets to use that variable's value as the override value.

For example, imagine that both the parent job and the child job have a variable of $\{Dept\}$. In the parent job, the value of $\{Dept\}$ is set to 20000, and in the child job the value is set to 40000. The Run Scheduler Job task will display the parent value of 20000 as the default value, and that value will be used when the child job is executed.

Now imagine that the parent job has a variable of {StartDept} set to 20000, and the child job has a variable of {Dept} set to 40000. In this case, the Run Scheduler Job task will display the value of {Dept} as defined in the child job (40000). If you want to use the parent job value for {StartDept} instead, then you must select the Override check box and enter {StartDept} as the Override Value. Now the value of {Dept} in the child job will be overridden and set to 20000.

SMTP Message Delivery task

This task delivers email notifications for Scheduler jobs.

NOTE: Scheduler automatically creates a system job for this task (System.SMTPMessageDelivery), which administrators can edit as needed.

Item	Description
Server name	The server name of the SMTP email server.
Port number	The port number for the SMTP email server. By default, the port is 587, but you can specify a different port number if needed.
Server requires	Select this check box if the SMTP email server requires authentication.
authentication	If selected, type a Username and Password.

Item	Description
Test Mode	Specifies whether the task is run in test mode. If this check box is selected, the task verifies that it can successfully connect to the SMTP server to send email notifications, but no emails are actually sent.
	For the System.SMTPMessageDelivery job, new systems are automatically set to test mode. If you restore a database, the restore process also sets the system job to test mode. You must disable test mode before any emails will be sent.

Start Process task

This task starts a process for Process Management. You can use this task to automatically start a process at a specific point in time, including recurring schedules (such as to automatically start a monthly process).

This task can be used to start a generic process definition or a plan file process definition.

ltem	Description
Process to start	The process definition to start. Click the Browse button to select the process definition file. You can select any process definition that you have access to within the Process Definition Library or within a file group Process Definitions folder.
	If the Scheduler job is stored in a file group Utilities folder, then you can optionally navigate to the process definition file through the Current File Group node at the top of the file groups list. When you do this, the path to the file is
	stored relative to the current file group, which means that it will automatically update when the file group is cloned. This is the recommended method of referencing the process definition file when the Scheduler job belongs to a file group.
	stored relative to the current file group, which means that it will automatically update when the file group is cloned. This is the recommended method of referencing the process definition file when the Scheduler job belongs to a file group.
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Item	Description
Restart process if it is already	Specifies whether the Scheduler task will restart the process if it is already running, or if the process will be left as is.
running	 Select this option if you want to start the target process regardless of whether it is already running. The current process instance will be aborted and a new process instance will start over at step 1. This option is selected by default.
	 Clear this option if you want to leave the existing process instance running. In this case, the Scheduler task will take no action if the target process is already running.

Scheduler tasks for database maintenance

Scheduler provides several built-in tasks that are intended for database maintenance. By default, these tasks are included in the System.IndexMaintenance job, which runs regularly to maintain your database. However, these tasks can also be added manually to jobs as needed to perform additional database maintenance.

The following database maintenance tasks are available:

- Rebuild Database Indexes task
- Update Database Statistics task
- Update Indexes and Constraints task

All of these tasks are predefined versions of the **Execute SQL Command** task. You can use the **Source Axiom Database** field to specify whether the task is executed against the system database or the audit database.

For the **SQL Command Text**, the actual SQL code used by each task is generated automatically by Axiom Capital Tracking when the task is executed. This ensures that the tasks always use the most current SQL code for each task as defined by Axiom Capital Tracking.

Security

All users of Axiom Capital Tracking must be defined within Security. Within Security, you can:

- Manage users and roles
- Control user access by file group
- Control user access to data in the database
- Control user access to specific features
- Control user access to data imports
- Control user access to files and folders
- Specify files to open on system startup

Security Overview

Using Axiom Capital Tracking Security, you can create users and roles, and assign access rights. This section explains how security is applied in Axiom Capital Tracking.

Users can be created manually within Axiom Capital Tracking, or you can import them from Active Directory. Once a user account is created, you must define the permissions for that user, at the user level or at the role level (or both). The security permissions determine which files, features, and data that the user can access within the Axiom Capital Tracking system.

The following users can access and manage security:

- Users designated as a system Administrator. Administrator users have full rights to all areas of the system, including security.
- Users who are granted the Administer Security permission. Administer Security users have full rights to security, except for a few features which are limited to administrators-only.
- Users who are assigned as a **Subsystem Admin** for a subsystem. Subsystem administrators can manage users and roles within the subsystem.

Users and roles

To streamline security settings, you can define a number of roles, and then assign users to those roles. Users inherit the security settings defined for their assigned roles. Additionally, Axiom Capital Tracking provides a built-in Everyone role, for security settings that apply to all users.

Systems with installed products may also have roles that are designed for use with the product. These roles are product-controlled and delivered with the product. For example, a system with the Capital Planning product may have roles for Capital Planning Admin and Capital Planning User. You can assign users to these roles based on the level of permissions they need to the product.

The specific way that security settings are inherited depends on the type of setting. Generally, roles grant permissions, they do not deny permissions. For more information, see How role settings are applied to users.

Authentication behavior

There are several options to authenticate users into Axiom Capital Tracking. The basic authentication type is Axiom Prompt authentication, which means that users will be prompted for an Axiom user name and password each time they want to access Axiom Capital Tracking.

If desired you can use an integrated authentication option instead, which means that users are authenticated based on certain supported external credentials—such as the user's Windows domain credentials or LDAP credentials. These options are typically enabled and configured during the installation of Axiom Capital Tracking. For more information, see Axiom Capital Tracking can integrate with your organization's existing network security. You can:.

Security subsystems

If desired, you can create security subsystems and assign users to subsystems. Subsystems allow you to:

- Define a maximum level of permissions for a subset of users. Any user that is assigned to the subsystem cannot be granted rights that exceed the subsystem rights.
- Assign a user as a subsystem administrator, so that the user can manage security permissions for the users and roles that belong to the subsystem.

In systems with installed products, subsystems are used to control access to specific products. These subsystems are product-controlled and delivered with the product. For example, you may have subsystems for Capital Planning and Budget Planning. You can assign users to subsystems based on the specific products they should be able to access.

For more information, see Security Subsystems.

The Security Management dialog

All security settings for Axiom Capital Tracking are controlled in the **Security Management** dialog. To access this dialog:

• On the Axiom tab, in the Administration group, click Manage > Security > Security Manager.

NOTE: In systems with installed products, this feature may be located on the Admin tab. In the System Management group, click Security > Security Manager.

Only users with the following permissions can access the Security Management dialog:

- System administrators
- Users with the Administer Security permission
- Users assigned as a subsystem administrator

Viewing users, roles, and subsystems

Users, roles, and subsystems are listed in the left-hand side of the dialog. To switch between items, select one of the radio buttons at the top of the dialog. By default, users are displayed.

A Security Management for Training Video ? ×							(
● Users ○ Roles ○ Subsystems	User: Doe, J	lane (jdoe))				16 u	ser(s), 2	admin(s	;)
Sort By: Last Name Show: ✓ Enabled ✓ Stype here to filter list> ×	Edit general	ils	File Groups n.	Tables		Startup	oles			
Admin, Admin (admin) Deer, Mary (mdeer) Doe, Jane (jdoe) Eubanks, Fred (feubanks)	First Name Last Name Email	e Doe	@axiomepm.c	om		Capital Pla	anning User		+	
Green, Esther (egreen) Greyer, Pam (pgreyer) Hunter, Wendy (whunter) Joe, Bob (bjoe) Lee, Steve (slee) Orleans, Juliet (jorleans)	License Ty Authentica Login Password	ation Axio	dard m Prompt	× ×						
Ranch, Brock (branch) Runner, JJ (jrunner) Sandstone, Ron (rstandstone) Slaer, Martin (mslaer) User, New (nuser) Xavier Sasparilla, Rufus (rxavier)		iistrator				Assigned St Capital Pla	-		+	
Log in as selected user						Apply	OK		Cancel	

- You can sort the user list by last name, first name, and login name. To change the sort, select the desired option from the **Sort By** list. By default, the list is sorted by last name.
- To search for a particular user, role, or subsystem, type the name into the search box at the top of the list. To clear the search, click the Clear filter icon X to the right of the search box. Note that this will search the user's login name as well as first and last name.
- To show or hide users by their enabled status, use the **Enabled** and **Disabled** check boxes. By default, both check boxes are selected which means that all users are shown (enabled and disabled).

When a user, role, or subsystem is selected in the list, the settings for that item display in the right-hand side of the dialog, organized by tabs.

TIP: You can double-click on any user, role, or subsystem name listed in the Assigned Users / Assigned Roles / Assigned Subsystems sections to open that record.

NOTE: Subsystems are optional in systems without installed products. Subsystem features are only available if you have enabled them using the system configuration settings.

Editing security

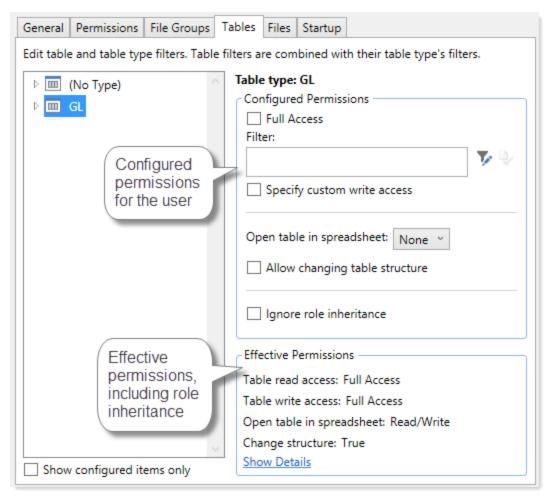
Changes made in the Security Management dialog are reflected in "real-time" within the dialog. If a required setting is missing, a validation message appears in the bottom left of the dialog. You can click on the message to be taken to the applicable setting. This issue must be resolved before you can save any changes.

At any time you can save changes by clicking **Apply** (to leave the dialog open) or **OK** (to close the dialog). In most cases, changed security permissions will be effective within seconds of being saved; the user does not need to log out and log back in before changes are applied.

Effective permissions

Several tabs of the Security Management dialog, such as the **File Groups** tab and the **Tables** tab, display the effective permissions for the user. This is the permission that the user has after applying all of the relevant security settings, including inherited role permissions, subsystem restrictions, and administrator permissions. This allows you to understand exactly what permission the user has.

For example, if you select a table type or a table in the Tables tab, the **Configured Permissions** section displays what permissions have been granted at the user level, and the **Effective Permissions** section displays the actual access rights of the user. In the following example screenshot, although the user herself has no configured access to the table type, her effective permission is full access. This means that either the user is assigned to a role with full access to the table type, or the user has been granted administrator rights. You can see exactly which rights contribute to the effective permissions by clicking the **Show Details** link.



Example effective permissions

As edits are made in the dialog, those changes are reflected in the effective permissions immediately. For example, if you grant a user permission to **Administer Imports**, and then switch to the **Files** tab, the effective permissions for the Imports Library will reflect that the user has full permissions to all imports, even though the change has not yet been saved.

Managing Users and Roles

All users of Axiom Capital Tracking must be defined within security. Users can be assigned access rights on an individual basis, and/or they can be assigned to specific roles and inherit the rights of the role.

The total number of active users that can be defined for your implementation depends on your license agreement with Kaufman Hall. If you have any questions, please contact Axiom Support for assistance.

The total number of available licenses and currently active users are displayed in the upper right-hand corner of the **Security Management** dialog. This area also displays the total number of users who have been granted administrator rights. For example: **20 of 25 licenses in use, 3 admins**.

NOTE: In addition to the Security Management dialog, you can also manage users and roles in bulk via a spreadsheet interface. For more information, see <u>Bulk edit of security</u>.

Managing users

Using the **Security Management** dialog, you can create new users, edit existing users, and delete users. To access this dialog:

• On the Axiom tab, in the Administration group, click Manage > Security > Security Manager.

NOTE: In systems with installed products, this feature may be located on the Admin tab. In the System Management group, click Security > Security Manager.

To work with users, make sure that **Users** is selected in the top left-hand corner of the dialog. To save changes, click **Apply** (or **OK** if you are finished editing security settings).

NOTE: Subsystem administrators can only work with users that belong to their assigned subsystem. The user list is filtered to only show these users.

Creating users

You can create a new blank user, or you can clone the settings of an existing user. If you clone a user, all of that user's settings are copied to the new user, except for unique personal information (name, email, login, password).

To create a user, click one of the following buttons located underneath the user list:

- To create a new blank user, click Create user +.
- To clone an existing user, select that user in the list and then click Clone user 🐝.

The new user is added to the list. You can define the security settings for the new user as desired, including assigning the user to one or more roles.

If you are a subsystem administrator, then all users that you create must belong to a subsystem. If you are an administrator for only one subsystem, then any new users are automatically added to that subsystem. If you are an administrator for multiple subsystems, then the user is automatically assigned to one of the subsystems—you can later change the assignment as needed.

Editing user properties

To edit user properties, select a user from the Users list, then make any changes to that user. Changes to user settings are applied to that user when the changes are saved.

Deleting users

IMPORTANT: If a user has made any changes to the system or data, deleting the user will have implications on auditing. In order to comply with SOX, HIPAA, and other protocols for standard security practices, it is strongly recommended to *disable* existing user records instead of deleting them. Generally speaking, a user record should only be deleted if it is newly created and has not been used.

To delete a user, select a user from the Users list, then click Delete user \times . You are prompted to confirm that you want to delete the user.

If you delete a user, that user is removed from Axiom Capital Tracking security entirely. Alternatively, you can disable a user if you want to keep the user record, but prevent the user from accessing Axiom Capital Tracking. On the **General** tab, clear the **Enabled** check box.

When a user is deleted, the user's associated user folders in \Axiom\Axiom System\User Folders are also deleted (such as My Favorites and My Documents).

NOTE: Only Axiom Support users can delete other Axiom Support users.

Managing roles

Using the **Security Management** dialog, you can create new roles, edit existing roles, and delete roles. To access this dialog:

• On the Axiom tab, in the Administration group, click Manage > Security > Security Manager.

NOTE: In systems with installed products, this feature may be located on the Admin tab. In the System Management group, click Security > Security Manager.

To work with roles, select **Roles** in the top left-hand corner of the dialog. To save changes, click **Apply** (or **OK** if you are finished editing security settings).

NOTE: Subsystem administrators can only work with roles that belong to their assigned subsystem. The role list is filtered to only show those roles.

Creating roles

You can create a new blank role, or you can clone the settings of an existing role. If you clone a role, all of that role's settings are copied to the new role, including assigned users.

To create a role, click one of the following buttons located underneath the role list:

- To create a new blank role, click Create role +.
- To clone an existing role, select that role in the list and then click Clone role 4.

The new role is added to the list. You can define the security settings for the new role as desired, and you can assign users to the role.

If you are a subsystem administrator, then all roles that you create must belong to a subsystem. If you are an administrator for only one subsystem, then any new roles are automatically added to that subsystem. If you are an administrator for multiple subsystems, then the role is automatically assigned to one of the subsystems—you can later change the assignment as needed.

Editing roles

To edit a role, select a role from the **Roles** list, then make any changes to that role. Changes to role settings are applied to users who are assigned to that role when the changes are saved.

Deleting roles

To delete a role, select a role from the Roles list, then click Delete role \times . You are prompted to confirm that you want to delete the role.

A role cannot be deleted if users are assigned to it.

TIP: If you have a role that you want to delete and many users are assigned to it, you can delete it using the Open Security in Spreadsheet feature. The users will be automatically updated to remove the role assignment. For more information, see Bulk edit of security.

Assigning users to roles

Each user in security can be assigned to one or more roles to define the user's security permissions. Generally speaking, the permissions of each assigned role are combined with any user permissions to result in the most permissive set of rights available to the user. There are some exceptions; for more information see How role settings are applied to users.

Users can be assigned to roles from the user record or from the role record. Users have an **Assigned Roles** section that lists their assigned roles. Roles have an **Assigned Users** section that list their assigned users.

NOTE: Alternatively, you can use the Security Manager page in the Web Client to assign users to roles. For more information, see Web Security Manager.

To assign roles to a user from the user record:

- 1. In the Security Management dialog, select the user.
- 2. On the General tab, in the Assigned Roles section, click the Add button +.
- 3. Use the Assign Roles dialog to assign one or more roles to the user:

- Use the Add and Remove buttons to move role names between Available Roles and Assigned Roles. All roles listed in the Assigned Roles box will be assigned to the user.
- You can also double-click role names to move them between the boxes.
- 4. When you have finished assigning roles, click **OK** to close the Assign Roles dialog, and then **Apply** or **OK** to save the changes to the user record.

To assign users to a role from the role record:

- 1. In the Security Management dialog, select the role.
- 2. On the General tab, in the Assigned Users section, click the Add button +.
- 3. Use the Assign Users dialog to assign one or more users to the role:
 - Use the Add and Remove buttons to move user names between Available Users and Assigned Users. All users listed in the Assigned Users box will be assigned to the role.
 - You can also double-click user names to move them between the boxes.
- 4. When you have finished assigning users, click **OK** to close the Assign Users dialog, and then **Apply** or **OK** to save the changes to the role record.

How role settings are applied to users

Axiom Capital Tracking supports role-based security. Each user can be assigned to one or more roles, and that user inherits the security settings defined for those roles. This topic explains how role-level rights are inherited by individual users.

In general, role rights are additive. Users are granted the most permissive set of rights among their own personal security settings and any roles that they are assigned to. Roles are intended to grant permissions, not deny permissions.

Role inheritance works slightly differently for different areas of security, as detailed in the following sections. When configuring security settings for a user, be sure to review the **Effective Permissions** section that is available in most areas of the dialog. This section displays the user's effective permissions after taking into account all applicable factors, including role inheritance, subsystem restrictions, and administrator status.

NOTE: If subsystems are being used, then role inheritance works in the same way, but users' effective permissions are limited by the subsystem's maximum permissions. For more information, see Security Subsystems.

Permissions

The **Permissions** tab of security defines access rights for specific Axiom Capital Tracking features. By default, users inherit security permissions from any roles that they are assigned to. However, you can override role inheritance for a user on a per permission basis.

If a permission is set to inherited, then the user is granted the most permissive set of rights among any roles the user is assigned to. For example, imagine the following settings for the **Browse Audit History** permission:

- User Inherited
- Role1 Unchecked
- Role2 Checked

If the user is assigned to both Role1 and Role2, then the user inherits the permission and can access the audit history for the system.

If instead you select to **Override** a permission for a user, then that permission is no longer inherited from roles. The user is granted or denied the permission based on whether the **Permission** box is checked for the user.

The following screenshot shows what the Permissions tab looks like in all possible states:

General	Permissions Fi	ile Groups	Tables	Files	Startup
Select per	rmissions to be g	granted.			
Ove	erride 🗌 Perm	nission			
	√ Adm	inister Ann	ounceme	ents	inherited from role 'Budget Process'
	Adm	inister Axio	m Explo	rer	inherited from role
✓	Adm	inister Expo	orts		
✓	🗸 Adm	inister File (Groups		

Example Permissions tab

In this screenshot, the example permissions are treated as follows:

- Administer Announcements: Inherited from role. The Budget Process role grants this permission to the user, so the Permission check box shows as checked, and the role name is listed in the details to the right.
- Administer Axiom Explorer: Inherited from role. None of the roles that the user belongs to currently grant this permission, so the Permissions check box shows as unchecked.
- Administer Exports: The Override check box is checked, so the user does not inherit this permission from any roles. The Permission check box is not checked, so the user does not have this permission.
- Administer File Groups: The Override check box is checked, so the user does not inherit this permission from any roles. The Permission check box is also checked, so the user has this permission.

Startup documents

The **Startup** tab of security specifies files to open when a user starts Axiom Capital Tracking, such as the home page, task panes, and ribbon tabs. Users inherit startup files from roles in addition to their own individually assigned startup files.

Each user can have only one home page. If a user has an individually assigned home page, that file will be used and any role settings are ignored. Otherwise, the user will inherit the home page from a role. If no home page is assigned, the default home page is used.

For more information about startup file inheritance, see Assigning startup files (Startup tab), and review the section for the applicable type of startup file.

File groups

The **File Groups** tab of security defines access rights for plan files in file groups. For file groups, you can configure role inheritance to be handled in a variety of ways. You can specify that role settings are combined with user settings, or that role settings are inherited independently from user settings, or that role settings are ignored entirely and not inherited.

For more information and examples of how role file group permissions apply to users, see Understanding role inheritance options for file group permissions.

All other areas

For all other areas of Security, the user inherits the most permissive set of rights among their own personal security settings and any roles that they are assigned to. This applies to the **Tables** tab and the **Files** tab.

For example, imagine the following access level settings for a report folder:

User Read-Only Role1 None Role2 Read/Write

If the user is assigned to both Role1 and Role2, then the user has Read/Write access to that report folder, because that is the most permissive set of rights available to the user.

Each tab has an **Effective Permissions** section where you can view the rights that the user will be granted after taking into account role inheritance, administrator status, and folder inheritance (where applicable).

NOTES:

• For table access, if both the user and a role have filtered access, the filters are concatenated using OR. So if a user has a table filter of DEPT.Region='North' and a role the user is assigned to has a table filter of DEPT.Region='South', then that user's full filter is:

DEPT.Region='North' OR DEPT.Region='South'

That user has access to data for either the North or South regions.

• For table access, you can choose to ignore role inheritance. If this option is enabled for a user, then any applicable role access settings for the table are not inherited (including the Full Access setting) and the only filter applied is the user's filter.

Granting administrator-level permissions

In Security, users can be designated as a system administrator, by enabling the Administrator option on the General tab.

System administrators have full rights to all features and all data for the system. Although you can configure security settings for administrators, such as to define file access or table filters, these settings will be overridden as long as the Administrator check box is enabled for the user. The Effective Permissions will reflect the user's full access.

Administrator-only features

Administrators have access to all features and files in the current Axiom Capital Tracking system. While non-admin users can be granted access to many features and files, some features are only available to administrators:

- The ability to make another user a system administrator
- The ability to lock non-admin users out of the system, and the ability to log into a locked system
- The ability to restore a deleted file
- The ability to modify system configuration settings using Save Type 4, or using the System Configuration page in the Axiom Web Client
- Access to Scheduler administration features in the Scheduler dialog (such as viewing all job history, managing system jobs and event handlers, managing Scheduler servers, and managing remote data connections)
- Access to system folders in Axiom Explorer (therefore, any file management for system files that cannot be done using system utilities can only be done by administrators)
- Access to certain underlying file group folders such as the Plan Files folder, Plan File Attachments folder, and the Calc Method Libraries folder
- Access to the Developer > Tools menu on the Axiom Designer ribbon (though some of the features on this menu are available elsewhere without the administrator restriction)
- Access to the technical administration features in the Axiom Web Client, such as: Reset Services, Rebuild Table Views, System Logs, and Update License

• Ability to create and edit imports that use the current Axiom database as the source data

Security access for non-administrators

If you want a user to be able to access and edit security settings, but you do not want to make the user an administrator, there are two options:

- You can give the user the Administer Security permission. Users with this permission can add, edit, and delete users, roles, and subsystems, and can access security tools such as System Access and Logged in Users.
- If you are using subsystems, you can assign a user as a subsystem administrator. Users with this permission can edit the security settings for users that belong to the subsystem, and can also create and delete users within the subsystem. For more information, see About subsystems.

These users do not have access to the **Administrator** check box in Security. They cannot make themselves or any other user an administrator.

The Everyone role

The Everyone role is a built-in role for each Axiom Capital Tracking system. The purpose of this role is to define security settings that apply to every user in the system. All users automatically belong to the Everyone role.

The Everyone role has the following default settings:

- **Document reference tables.** When a new document reference table is created, the Everyone role is automatically granted full read access to that table. This permission grants all users the right to query the data in document reference tables. In most cases, this is the desired level of rights. If you have some particular document reference tables that you do not want every user to have access to, then you can do one of the following:
 - Modify the Everyone role to remove access to those tables, and instead grant access directly to specific users and roles.

OR

- Leave the Everyone role at the default of full access, and instead modify certain users to ignore role inheritance for that table.
- On-demand file groups. When a new on-demand file group is created, the Everyone role is automatically granted the Create New Records permission for that file group. Effectively, this means that any user who also has access to plan files in the file group will also have permission to create new plan files. If you do not want this behavior—meaning that you want some users to be able to access plan files in the file group without being able to create new plan files—then you can remove the permission from the Everyone role and instead grant it to individual users and roles as needed.

• Startup task panes. By default, the Everyone role is configured to open the Explorer and Process task panes on startup, as non-closeable task panes. You can modify the Everyone role to remove any of these task panes, and instead grant access directly to specific users and roles (or do not grant access to anybody, if you do not want to use these task panes at all). Only the Explorer task pane will open automatically for all users; the Process task pane only displays when it is relevant to the user.

NOTE: In systems with installed products, your Everyone role may have been modified to not open these task panes on startup, and instead open different task panes.

- **Startup ribbon tabs**. By default, the Everyone role is configured to open the Axiom and Axiom Designer ribbon tabs on startup.
 - The Axiom ribbon tab shows for all users and provides the default menu for the Desktop Client. You should not remove this tab from the Everyone role unless you have created one or more custom ribbon tabs that you plan to assign to the necessary users and/or roles instead.
 - The Axiom Designer ribbon tab is limited to administrators only. You can modify the configuration of the startup file so that it displays to other users, or you can remove it from the Everyone role and instead grant access directly to specific users and roles (or do not grant access to anybody, if you do not want to use the ribbon tab at all).

NOTE: In systems with installed products, your Everyone role may have been modified to not open these task panes on startup, and instead open different task panes.

If desired, you can modify the Everyone role to grant additional rights to every user. Any right granted at the Everyone level will be inherited by every user, except for rights that have been overridden at the user level. Subsystem restrictions, if applicable to the user, still apply.

Note the following about the Everyone role:

- The Everyone role cannot be renamed or deleted. The security settings for the role can be modified in either the Security Management dialog or by using Open Security in Spreadsheet.
- Users cannot be explicitly assigned to the role, nor can they be removed from the role. All users permanently belong to this role.
- The Everyone role is not recognized by GetSecurityInfo("InRole") or when querying security tables via Axiom query. It is assumed that all users belong to the role; therefore it is not listed as a role assignment.

Configuring Security Settings

Security settings for users, roles, and subsystems are organized by tabs in the Security Management dialog. The following tabs are available:

Tab	Description
General	Define general settings such as name and email, as well as role assignments and system access.
Permissions	Set permissions for individual features.
File Groups	Set access rights for file groups.
Tables	Set access rights for tables.
Files	Set access rights for files in the Axiom Capital Tracking file system. This includes reports, imports, task panes, and Scheduler jobs.
Startup	Specify certain files to open automatically on system startup.

Defining user properties (General tab)

The following settings are available for users on the General tab.

User Details

Each user has the following general properties:

Item	Description
First Name	The user's first and last name.
Last Name	This information can be referenced by using the function GetUserInfo.
Email	The user's email address. This address is used to send user notifications, such as for process management.
	This information can be referenced by using the function GetUserInfo.

ltem	Description
License Type	The user's license type. By default, users are Standard users unless a different user type is selected. Standard users have the potential to access any feature or file in Axiom Capital Tracking, limited by their security permissions.
	In addition to standard users, the following user types are available:
	• Axiom Support users are intended to allow Axiom Capital Tracking consultants and support representatives to log into your system as part of requested support activities or contracted consulting work. Any user accounts assigned to this license type must log in using Axiom Prompt authentication, and must acknowledge that they are Axiom representatives when they log into the system.
	NOTE: Once a user has been assigned an Axiom Support license, that license can only be removed by another Axiom Support user.
	• Viewer users allow for view-only access to Axiom Capital Tracking. Viewer users can access files as read-only, but they cannot save files or data, and they cannot otherwise perform "change actions" on the files (such as submitting a plan file for process management). Viewer users also cannot perform any administration functions.
	Security permissions for viewer users can be set as normal, but any settings above read-only access to files will be ignored. The Effective Permissions will note that the user is being limited due to the Viewer license. However, if you switch the user to a Standard license, the settings will be honored.
	The number of users that can be created and assigned to each license type depends on your Axiom Capital Tracking license.

Item	Description
Authentication	The method used to authenticate the user for access to Axiom Capital Tracking. By default, new users will be assigned to your installation's configured authentication mode; however, this can be changed on a per user basis as needed.
	• Axiom Prompt: Select this option if you want the user to be authenticated by using their Axiom Capital Tracking user name and password. You would use this option if your installation is not configured to enable an external authentication method, or if you are using an external authentication method but you want to create a user who can log in directly.
	• Windows User: Select this option if you want the user to be authenticated based on their Windows credentials. This option is only valid if your installation is configured to enable Windows Authentication. For more information, see Using Windows Authentication.
	• LDAP Prompt: Select this option if you want the user to be authenticated via your LDAP directory. This option is only valid if your installation is configured to enable LDAP Authentication. For more information, see Using LDAP Authentication.
	• OpenID : Select this option if you want the user to be authenticated using an OpenID provider. This option is only valid if your installation is configured to enable OpenID Authentication. For more information, see Using OpenID Authentication.
	• SAML : Select this option if you want the user to be authenticated using a SAML identity provider. This option is only valid if your installation is configured to enable SAML Authentication. For more information, see Using SAML Authentication.
	• Unspecified: This option exists to support backwards-compatibility for systems upgraded from older versions. Upgraded users may be assigned to it, but it cannot be selected otherwise. If you have users assigned to this option, we recommend changing their assignment to the appropriate authentication type.

Item	Description
Login	The user's login name.
	If the user's authentication type is anything other than Axiom Prompt, then the user's login name must match the user's login name for the designated authentication source (for example, it must match the user's Windows login name when using Windows Authentication). See the information on the appropriate authentication type for login name requirements.
	For Windows Authentication only, you can validate that the login name matches a user name in one of the allowed domains by clicking the Validate icon I to the right of the box. A message box will let you know whether the name was found or not. This feature is only available if Windows Authentication is enabled and at least one valid domain name has been specified as an allowed domain.
	This information can be referenced by using the function GetUserInfo.
Password	The user's Axiom Capital Tracking password. Click the button to the right of the box to set or change the user's password. All users must have a non-blank password.
	Users can change their own password later from within the application.
	NOTES:
	 By default, Axiom Capital Tracking enforces a basic set password rules. If desired, you can disable these rules and allow any password. See Enabling password rules.
	 The Password setting only displays for Axiom Prompt users. For all other authentication types, a randomly generated password will be created for the user and cannot be changed. Users cannot log in with this randomly generated password; they can only log in using their specified authentication type.
	If you are an administrator and you need to log into Axiom Capital Tracking as another user in order to test that user's security settings, you do not need to know that user's password. For more information, see Testing user security .
Enabled	Specifies whether the user can access Axiom Capital Tracking. If this check box is <i>not</i> selected, the user cannot log into any Axiom Capital Tracking system.
	NOTE: System administrators cannot disable other system administrators. The Administrator permission must be removed before the user can be disabled.

Item	Description
Locked Out	If a user has become locked out of the system due to exceeding the configured number of failed login attempts, then the system will automatically select this check box. You can clear the lockout by clearing this check box.
	This setting only displays if you have manually configured a lockout threshold. For more information, please contact Axiom Support.
	If an administrator becomes locked out, and no other administrator accounts are available to clear the lockout, the Axiom Software Manager can be used to reset the administrator's password and clear the lockout.
Administrator	Specifies whether the user has administrator-level permissions. If this check box is selected, then the user has access to all features and data in the current system. For more information, see Granting administrator-level permissions.
	NOTE: This check box only displays to users who have the Administrator permission. In other words, a user cannot make themselves an administrator, they have to be granted the right by a user who is already an administrator.
Directory Sync Enabled	Specifies whether the user will be synched with Active Directory the next time an Active Directory import is performed. This is enabled by default.
	• If enabled, then the user will be synchronized with Active Directory according to the settings in the Scheduler task for the import. For more information about how this import and synchronization occurs, see How Active Directory user synchronization works.
	• If disabled, then the user will not be affected by the Active Directory import, even if the user name matches a user name in the import.
	NOTE: This check box only displays if Active Directory import has been enabled for your system.

Assigned Roles

Users can be assigned to one or more roles. If the user is already assigned to roles, those roles are listed here.

- To add a user to a role, click Add +. In the Assign Roles dialog, you can select roles for the user.
- To remove a user from a role, select the role in the list and then click Remove X.

Role assignments can be made when editing either the user or the role. Any changes made in one area are automatically applied to the other area.

NOTE: The Everyone role is not listed in the **Assigned Roles** box. All users belong to the Everyone role and cannot be removed; therefore it is not listed as a role assignment.

For more information, see How role settings are applied to users.

Assigned Subsystems

This section only displays if subsystems are enabled for your system. See Security Subsystems.

If you are using subsystems, you can optionally assign the user to one or more subsystems. If the user is already assigned to subsystems, those subsystems are listed here.

- To add a user to a subsystem, click Add *. In the Assign Subsystems dialog, you can select subsystems for the user.
- To remove a user from a subsystem, select the subsystem in the list and then click Remove X.

IMPORTANT: If you remove a user from a subsystem, that subsystem's maximum permission limit will no longer apply to that user.

Subsystem assignments can be made when editing either the user or the subsystem. Any changes made in one area are automatically applied to the other area.

NOTE: If you are a subsystem administrator, then all users that you have access to must belong to a subsystem. If you are an administrator for only one subsystem, then any new users you create are automatically added to that subsystem. If you are an administrator for multiple subsystems, then the user is automatically assigned to one of the subsystems; you can change the assignment as needed.

Configuring role properties (General tab)

The following settings are available for roles on the General tab.

Role Details

Each role has the following general properties:

Field	Description
Name	The name of the role.
	NOTE: The name of the built-in Everyone role cannot be changed.
Description	A description of the role. The description is for the administrator's use only, to help explain the purpose of the role.

Assigned Users

Multiple users can be assigned to a role. If the role already has assigned users, those users are displayed here.

- To add a user to the role, click Add +. In the Assign Users dialog, you can select users to add to the role.
- To remove a user from the role, select the user in the list and then click Remove imes .

Role assignments can be made when editing either the user or the role. Any changes made in one area are automatically applied to the other area.

NOTE: This section is not available when editing the built-in Everyone role. All users belong to the Everyone role and cannot be removed.

For more information, see How role settings are applied to users.

Configuring feature permissions (Permissions tab)

On the **Permissions** tab of the **Security Management** dialog, you can specify which features a user or role has access to. The **Permissions** tab works slightly differently depending on whether you are defining rights for a user or a role.

NOTE: If you are defining permissions for a subsystem, see Defining maximum permissions for subsystems.

Setting permissions for users

For users, each permission has three available settings:

• Inherited: The permission is not set for the user. The permission is grayed out and the text "inherited from role" appears to the right of the permission name. If the user is assigned to a role, this permission can be inherited from the role.

Override	Permission	
	Administer Imports	inherited from role

• **Denied**: If the **Override** check box is selected, but the **Permission** check box is not selected, this means that the user explicitly does not have access to the feature. The user will not inherit the permission from any roles.

Override	Permission
	Administer Imports

• Allowed: If the Override check box and the Permission check box are selected, this means that the user explicitly has access to the feature, regardless of any role settings.

Override	Permission	
✓	Administer Imports	

By default, all user permissions are left unset and are inherited from any role assignments. If you want to override role inheritance and explicitly set a permission for the user, then you must select the **Override** check box and then leave the permission unchecked (to deny the permission) or checked (to allow the permission).

NOTES:			
For example, if a user is as that permission is eligible	signed to a role that ha for inheritance, then th	plays the effective permission for the u s the Administer Imports permission, e check box for that permission display m which the permission is inherited is	and ys as
Override Permissi	on		
🔲 🗹 Administ	ter Imports	inherited from role 'Finance'	
Override Permissi	ion ter Imports	user is an admin	
permission to be granted	to users in the subsyste t "disallowed by subsys	vstem settings do not allow a particula em, then the permission is grayed out a tem" (including the subsystem name)	
Override Permissi	ion		
Adminis	ter Imports	disallowed by subsystem 'Facility5'	

Setting permissions for roles

For roles, the **Permission** box for each permission is either checked or unchecked. If a permission is checked for a role, then users who have that permission set to "inherited" will inherit rights to that permission when they are assigned to that role.

Permissions

The following permissions are available:

Permission	Description
Administer Announcements	The user can create, edit, and delete announcements and announcement categories. The user must have access to a form-enabled file with an Announcements component in order to use this permission.

Permission	Description
Administer Axiom Explorer	The user can access the Axiom Explorer dialog. The user's other security permissions determine what folders they can view within this dialog and what actions they can perform on them.
	NOTE: This permission has no impact on the availability of the Explorer task pane. Any user can use the Explorer task pane.
Administer	The user can create exports in the Exports Library.
Exports	The user must also have read/write permissions to at least one folder within the Exports Library (as configured on the Files tab), or else they will have no place to save their created exports. Execute permissions are also managed on the Files tab.
Administer File	The user has general administrative permissions to <i>all</i> file groups. The user can:
Groups	Create and delete file groups
	Edit file group settings
	Clone file groups
	 Manage scenarios for file groups
	 Manage restore points for file groups
	 Manage categories for file groups
	Manage file group aliases
	 Use the Delete Plan Files command to delete any plan file from an on- demand file group
	NOTE: Generally speaking, this permission does not grant access to any files within the file groups, such as plan files, templates, and drivers. The user must be granted access to these files separately if the user is expected to manage or use these files. There are two exceptions: the user can delete any on-demand plan file using Delete Plan Files, and the user can restore any plan file when using restore points.
Administer	The user can create import utilities.
Imports	The user must also have read/write permissions to at least one folder within the Imports Library (as configured on the Files tab), or else they will have no place to save their created imports. Execute permissions are also managed on the Files tab.
Administer Locked Items	The user can remove file locks on documents and tables, and can remove save locks on Axiom forms.
	The list of locked items is limited to the files and tables that the user has some level of access to. The user cannot see or unlock items that the user does not have access to.

Permission	Description
Administer Picklists	The user can administer picklist tables using the Web Client Table Manager. The user can create new picklist tables. For existing picklist tables, the user can edit table properties and delete tables (as long as the user has at least read-only permission to the table, otherwise the table does not display in the table manager).
	Administer Picklist users do not gain access to the table administration features in the Desktop Client.
Administer Security	The user can access and edit security settings for the current system. The user can also access security-related tools such as System Access and Logged in Users .
	The Administrator check box is not available to users with this permission.
Administer Tables	 The user has general table administration permissions. The user can: Create and delete tables Edit table structure Open tables using Open Table in Spreadsheet Use other table utilities available on the table administration menu (Administration > Tables > Table Administration
	The user's read and write filters (as set on the Tables tab) are honored for purposes of viewing and saving table data.
Administer Task Panes	The user can create and edit task panes and ribbon tabs, as allowed by the user's folder / file access rights defined for the Task Panes Library and the Ribbon Tabs Library (as set on the Files tab).
Administer Updates	The user can download and apply updates to the Axiom Capital Tracking installation.
Browse Audit	The user can view audit history for the system.
History	NOTE: Users with this permission can see audit records for all changes, including changes made to tables that the user does not otherwise have access to. Use caution in granting this permission.
Remove Protection	The user can remove workbook and worksheet protections, for any Axiom file that the user can access.
	NOTE: Alternatively, you can grant unprotect rights for individual report files and folders on the Files tab, or for plan files on the File Groups tab.

Permission	Description
Scheduled Jobs User	The user can access the Scheduler dialog for the purposes of working with scheduled jobs.
	The user can create jobs, edit jobs, run jobs, and delete jobs, as allowed by the user's folder and file access rights defined for the Scheduled Jobs Library (as configured on the Files tab of Security). For example, you might create a subfolder for each user and only grant the user rights to that folder.
	The user can view the results of jobs that the user has executed. Other job history is not available to the user.
	The user cannot manage Scheduler servers, edit system jobs, or use other Scheduler administration features.
	NOTE: Generally speaking, task-level security is not applied to users with this permission, within the context of Scheduler. However, file-level rights are enforced. For example, the user can create and/or run a Process Plan Files task within a Scheduler job, even if the user does not have the Process Plan Files permission. But within that task, the user can only process file groups and plan files that the user otherwise has access to.
User Documents	The user can access a My Documents folder in their My Files section.
Folder Access	The user can save files to My Documents. The user has read/write access over any file saved to this area. Typically this permission is only granted to power users who may need a place to save their own "personal" reports or an area to temporarily save "in progress" files.
	Administrators can access any user's My Documents folder. Other users cannot access it.
	NOTE: If a user has this permission and then later it is removed, the user's existing My Documents folder is not deleted; it is simply hidden from the user in Explorer dialogs. If desired, an administrator can delete the folder in \Axiom\Axiom System\User Folders.

NOTE: Generally speaking, if a user does not have rights to a feature, the menu item associated with that feature does not show on that user's ribbon tabs or other applicable areas.

Configuring file group permissions (File Groups tab)

On the **File Groups** tab of the **Security Management** dialog, you can manage user access to plan files and to file group features. On this tab, you can specify the following:

- Which plan files a user can access
- The level of access to those plan files (read-only or read/write)

- What features are available in those plan files (such as saving data or inserting calc methods)
- Which file group administration features the user can access (such as Create Plan Files or Process Plan Files)

NOTES:

- The settings on this tab do not apply to administrators. Administrators have access to all plan files and all file group features.
- If you are defining permissions for a subsystem, see Defining maximum permissions for subsystems.

IMPORTANT: This tab does not control access to other files in a file group, such as templates, drivers and utilities. To give users access to these files, use the **Files** tab.

File group permissions

The settings on the **File Group** tab define permissions for each file group. The left-hand side lists the available file groups for the system. When you select a file group in the list, you can define the security settings for the user or role using the two sub-tabs on the right-hand side.

- File Group: Manage access to file group administration features such as Create Plan Files and Process Plan Files. This tab can be ignored for most end users.
- **Plan Files**: Manage access to plan files. It is necessary to configure access on this tab if you want the user to have any access to plan files in the file group.

Budget			Budget					
Capital	Requests		File Gr	oup Plan Fi	es			
Initiativ	es		Confi	gured Permis	sions			
				a permission				(ASC) 💠
			→	Plan file acces	is:		DEPT.Region =	= 'US Wes
			1	Access Level:			Read Only	
				Save Data:			Not allowed	
			l l	Jnprotect:			Not allowed	
				Sheet Assista			Not allowed	
				ile Processin			Not allowed	
				Calc Method	Access:		Insert	
				Roles: nteracts with	Process Man	agement	Inherit all inde True	pendentl
			Effect	ive Permissio	ns			
			→ PI	an file access			DEPT.Region =	'US West'
				ccess Level:			Read Only	
			Sa	ave Data:			Not allowed	
			U	nprotect:			Not allowed	
			SI	neet Assistant	5		Not allowed	
			Fi	le Processing	Assistant:		Not allowed	
			C	alc Method A	ccess:		Insert	
			In	teracts with F	rocess Mana	gement:	True	
			Channel	Details				

Example File Groups tab, configuring permissions to plan files

File groups are listed by display name, followed by the file group code in parentheses. If the name of the file group is different than the display name, that name is also displayed in the parentheses.

The **Effective Permissions** section displays the full permissions of the user, taking into account any inherited role rights and other settings such as administrator rights.

NOTE: If a non-admin user has no effective permissions for a file group (either on the **File Groups** tab or on the **Files** tab), then that user cannot see the file group in Axiom Explorer, the Axiom ribbon tab, and other lists of file groups.

File Group tab

Use the **File Group** tab to configure user access to administration features for the file group. This tab is optional and can be ignored for most end users.

To grant a user access to one of these features, select the check box. By default, all check boxes on this tab are not selected, which means the user does not have access to any of these features.

Item	Description
Modify File Group	 This permission grants general administrative rights to the file group. The user can: Edit the file group settings Clone the file group Manage scenarios for the file group
	Manage restore points for the file group
Create Plan Files	The user can create plan files for the file group, using the Create Plan Files feature. This permission is limited to those plan files where the user has read/write access, as defined in the File Groups tab of Security.
	This permission also grants access to the Copy Plan Files feature for standard file groups, which can be used in certain specialized configurations to copy plan files from one file group to another. In this case the user must have read/write access and Create Plan Files permission to the target file group.
	NOTE: If the file group is an on-demand file group, then users do <i>not</i> need this permission in order to create new plan files "on demand." Instead, users need the Create New Records permission.

ltem	Description
Create New Records	The user can create new plan files for the on-demand file group. This process includes creating a new identity record in the plan code table and then creating a plan file for that record using either its assigned template or by copying an existing plan file (when using the Clone selected item feature). This permission only applies to on-demand file groups.
	By default, this permission is automatically enabled on the Everyone role when a new on-demand file group is created. This means that any user with at least Read-Only access to plan files in this file group will also have the ability to create new plan files. (This includes plan file permission sets with the potential to be elevated to read-only access or higher, due to the Interacts with Process Management permission.) If you do not want all users with access to the file group to be able to create new plan files, then you can remove the permission from the Everyone role and instead grant it to individual users and roles.
Process Plan Files	The user can process plan files for the file group, using the Process Plan Files feature. This permission is limited to plan files where the user has at least read- only access, as defined in the File Groups tab of Security.
	The user can run Axiom queries and save data as part of the process, but the user can only save the file if they have read/write access to it.
Run Axiom	The user can refresh Axiom queries in plan files, using the Refresh feature.
Queries	By default, non-admin users cannot use the Refresh feature in plan files. If you have a plan file design where users should be able to refresh the queries in the file as needed, then you should enable this permission.
	NOTES:
	 This permission does not apply to "refresh on open" Axiom queries, or to queries run using the RunAxiomQueryBlock function. These queries will always run, regardless of whether the user has this permission.
	 This permission does not apply to form-enabled plan files (when viewed as an Axiom form). Axiom queries in form-enabled plan files will refresh according to the standard form refresh behavior, regardless of whether the user has this permission.
Manage Calc Methods	The user can perform all management activities for calc method libraries in the file group, including adding new calc methods, editing calc methods, deleting calc methods, as well as use any other calc method features available on the CM Library menu. The user can also insert or change calc methods in any file group files that the user has access to, and can override any calc method controls.

Plan Files tab

Use the **Plan Files** tab to configure user access to plan files for the file group. Each plan file *permission set* defines the following:

- The plan files that the permission set applies to (all plan files or a filtered subset)
- The permissions to be applied to those plan files (such as: access level, ability to save data, and calc method permissions)
- The role inheritance to be applied to the permission set (none, combine, or independent)

Users can have multiple permission sets per file group—for example, to define read/write access to one set of plan files and read-only access to another set of plan files. These permission sets can be configured for the user directly or inherited from one or more roles. Roles can only have one defined permission set per file group.

You can add, edit, and delete permission sets as follows:

- To add the first permission set for a user or a role, click Add a Permission.
- To add an additional permission set for a user, click the plus icon + .
- To edit a permission set, double-click it. You can also select it and then click the edit icon M.
- To delete a permission set, select it and then click the delete icon X.

NOTES:

- If a user has no configured permission sets, the user will inherit role permissions using independent inheritance. Each role's permissions will be inherited as a separate unit. For more information on role inheritance behavior for file groups, see Understanding role inheritance options for file group permissions.
- If a user has multiple configured permission sets, only the first permission set displays in **Open** Security in Spreadsheet.

When creating or editing a permission set, the **Plan File Permission** dialog opens. Within this dialog, you can configure all permissions relating to this permission set.

Item	Description
File access level	The level of access that the user or role has to the plan files covered by this permission set. Select from one of the following:
	No Access: The user or role has no access to plan files.
	The No Access option is intended to be used in conjunction with Interacts with Process Management and/or with Combine role inheritance. You can define other permissions for the plan files, and those permissions will apply when the user's access level is elevated due to a plan file process, or combined with another permission set to result in a higher level of access.
	Read Only: The user or role has read-only access to plan files.
	 Read/Write: The user or role has read/write access to plan files in the file group.
	NOTES:
	 The ability to save data to the database from within a file is controlled separately, using the Allow Save Data permission.
	 If you are using a plan file process with this file group, select the level of access that you want the user to have when they are NOT the current step owner. For example, you may want the user to have no access if they are not the step owner, or read-only access.
	 If the file group uses virtual spreadsheet plan files, and you want file locking behavior to apply to the plan files, then users must have Read/Write access to the files instead of Read-Only access (even though the virtual files cannot be saved).

Item	Description
Allow Save Data	Select this check box if you want the user or role to be able to save data to the database from the plan files covered by this permission set.
	NOTES:
	 If you are using a plan file process to manage access to plan files, you do not need to select this option. When the user is a step owner of a plan file, the user's permissions will be "elevated" as needed, including the ability to save data to the database. Generally you would only enable Allow Save Data for a user if you want the user to be able to save the data at all times, regardless of process step ownership.
	 If a user has Read Only access and Allow Save Data, then the user will be able to save data to the database but not save changes to the file. Generally this configuration would only be used with form-enabled plan files. Users with this combination of rights can save data from the file at any time, regardless of whether the file is locked to another user.
	 In most cases, this option is only selected if the user also has Read/Write access to the file group, so that file changes and data changes can be saved in sync.
Allow Calc Method Insert	Select this check box if you want the user or role to be able to insert calc methods into plan files.
	This option enables or disables the user's overall ability to insert calc methods. Within individual templates/plan files, calc method controls can be used to further control which calc methods can be inserted and where they can be inserted.
	It is valid to select this option even if the user has No Access or Read Only access to plan files, if the user's access will be elevated by a plan file process or combined with another permission set. It is also valid to insert calc methods in read-only plan files when using form-enabled plan files.
	NOTE: This setting does not apply if the user has been granted the Manage Calc Methods permission. Users with this permission can perform any calc method action in any plan file that they have access to within the file group.

Item	Description
Allow Calc Method Change	Select this check box if you want the user or role to be able to change methodologies in the plan file by overwriting one calc method with another.
	This option enables or disables the user's overall ability to change calc methods. Within individual templates/plan files, calc method controls can be used to further control which calc methods can be used to overwrite and where overwrite is allowed.
	It is valid to select this option even if the user has No Access or Read Only access to plan files, if the user's access will be elevated by a plan file process or combined with another permission set.
	NOTE: This setting does not apply if the user has been granted the Manage Calc Methods permission. Users with this permission can perform any calc method action in any plan file that they have access to within the file group.
Allow Unprotect	Select this check box if you want the user or role to be able to unprotect the worksheet and workbook within plan files. If enabled, the user will have access to the Protect toggles in the Advanced group on the Axiom ribbon.
	This option should only be granted in special situations. Normally, end users are not allowed to unprotect plan files.
Allow Sheet Assistant	Select this check box if you want the user or role to see the Sheet Assistant. Generally, you should only expose the Sheet Assistant if the user is expected to edit file settings, including Axiom query settings.
	 Enabling this permission also has the following impacts: The user has access to the Control Sheet. The Control Sheet is hidden by default in plan files but the user can unhide it via the Sheet Assistant. The Drilling Control Sheet will not be hidden if the user has the Sheet Assistant permission.
	 If the user has read/write permission and the Sheet Assistant permission, then the user can enable forms for the file and can see the Form Assistant and Form Control Sheet.
	• The Data Source Assistant is also available if the Sheet Assistant is available.
	If this check box is not selected, then the user cannot see the Sheet Assistant or the other related items as described above.
	This option should only be granted in special situations. Normally, end users are not allowed to edit settings in plan files.

Item	Description
Allow File Processing	Select this check box if you want the user or role to be able to perform file processing on the file. If selected, then the user has access to file processing features, including the File Processing button on the menu and the File Processing task pane. The related control sheets will also be visible to the user.
	If this check box is not selected, then the user cannot perform file processing actions and cannot see the related menu items, task panes, or control sheets.
	This option should only be granted in special situations. Normally, end users do not perform file processing in plan files.
Apply settings to	Select one of the following to determine the plan files that this permission set applies to:
	 All Plan Files: The configured permissions apply to all plan files in the file group.
	 Filtered Plan Files: The configured permissions apply to a subset of plan files in the file group, as defined using a filter. For more information on defining a plan file filter, see Defining plan file filters.
Interacts with Process	This option specifies whether this permission set interacts with plan file processes. It is enabled by default for users, and disabled by default for roles.
Management	Enabling this option has the following effects, for plan files covered by this permission set:
	 If the access level of the permission set is No Access, the permission set will still be considered for step ownership when the user is directly assigned as the step owner. If "interacts" is disabled, then the permission set is only considered if the access level is at least Read Only.
	 If the ownership assignment is through a role, enabling this option tells the process to consider this permission set when evaluating which role members should be step owners. If this option is not enabled, then this permission set will be ignored by the plan file process when evaluating the role permission.

Settings for users only

The following settings apply only to users, not to roles. These settings specify how the user will inherit file group rights from any roles that the user is assigned to. For more information, see Understanding role inheritance options for file group permissions.

Item	Description
Role Inheritance	Specify how the user will inherit file group permissions from roles:
	 None: The user will not inherit file group permissions from roles. Only the user's configured permissions will be applied. Role permissions will be ignored.
	• Combine : The user's permissions and any role permissions will be combined, so that the user will be granted the most permissive set of rights among all the plan file access settings. Using the Role(s) setting, you can specify whether this applies to all roles that the user belongs to, or only a specific role.
	 Independent (default): The user will inherit permissions from roles, but the user's configured permissions and the role's inherited permissions will be applied separately. Using the Role(s) setting, you can specify whether this applies to all roles that the user belongs to, or only a specific role.
Role(s)	Select which roles the role inheritance settings apply to. This setting only applies if the role inheritance is set to Combine or Independent .
	 If you select (all roles), then the specified inheritance settings apply to all roles that the user belongs to. This is the default setting.
	 If you select a particular role, then the specified inheritance settings apply to only that particular role. If the user belongs to other roles, and those other roles are not selected in additional file group permission sets for the user, then those role permissions are ignored.

Defining plan file filters

To define a filter to control access to plan files, select the **Filtered Plan Files** option and then use the Filter Wizard $\sqrt[7]{}$ to construct the filter. (You can also type a filter directly into the filter box.) The filter must be based on the plan code table for the file group, or on a reference table that the plan code table links to. When using the Filter Wizard, the wizard only displays the eligible tables.

After defining a filter, you can validate it by clicking the **Validate filter** button **P**. This check is to ensure that the filter syntax is valid. You can test to make sure that a file group filter is operating as you expect by logging in as the user (or as a user assigned to the role) and checking to see which plan files display in the **Open Plan Files** dialog for the file group.

Filter variables can be used in plan file filters, to set a filter that is based on a user's login name (see example below) or on another related user property. This is useful to be able to set a filter at the role level, yet resolve the filter dynamically for each user in the role. For more information, see Filter variables.

NOTE: You can leave the filter blank only if you are using **Combine** role inheritance. This assumes that either the user or the role has a filter that will apply after the permissions are combined. If the filter remains blank after inheritance, then the user will have no access to plan files.

Example filters

DEPT.Dept IN (200,400)

This example limits the user to accessing plan files for departments 200 and 400.

DEPT.Region='North'

This example limits the user to accessing plan files for departments assigned to the North region.

DEPT.Owner='{CurrentUser.LoginName}'

This example limits the user to accessing plan files for departments that are assigned to that user (by the presence of the user's login name in the Owner column). This type of filter would most likely be set on a role, so that the filter could be set once yet resolve dynamically for each user in the role. For example, for user JDoe, this filter would resolve as DEPT.Owner='JDoe'.

Configuring plan file security for use with plan file processes

This section provides basic guidelines for setting user permissions when you intend to use a plan file process with the file group. There are many nuances to file group security settings and how they can interact with plan file processes, especially if you are using advanced security configurations such as multiple permission sets for plan files or the combine option for role inheritance.

Generally speaking, you should configure security permissions for plan files to reflect the "baseline" permissions that you want the users to have when they are *not* process step owners. When the users are step owners, their permissions will be temporarily "elevated" as needed so that they can complete the process task. For example, a user may have Read-Only access to a plan file configured in security, so this is their baseline permission. But when the user is the step owner of an edit step, their permission will be elevated to Read/Write and Allow Save Data so that they can edit and save the plan file.

Additionally, the Interacts with Process Management setting for plan file permissions can be used as follows:

- If you want a user to only have access to the plan file when they are the step owner, you can configure a permission set to the plan file with No Access and Interacts with Process
 Management enabled. This causes the permission set to be considered for step ownership of a plan file even though the access level is No Access. The user must still have a plan file filter that includes the plan file.
- If the ownership assignment is through a role, enabling Interacts with Process Management tells the process to consider this permission set when evaluating which role members should be step owners. If "interacts" is not enabled when using a role assignment, then this permission set will be ignored by the process.

Example user permissions for use with a plan file process

The first step in configuring plan file permissions for use with a plan file process is deciding what level of permissions that you want the user to have when the user is *not* a process step owner. This is the user's baseline level of security permissions that they will always have.

NOTE: All of the example permission sets below assume that the user's plan file filter includes the plan file where the user is assigned as a step owner. The user must have a configured or inherited permission set that includes this plan file. The plan file process cannot not grant permissions to plan files, they can only elevate existing permissions to those files.

No Access	If you want a user to have no access to the plan file when the user is not a
	process step owner, then set the permissions as follows:
	File Access Level: No Access
	Allow Save Data: Unchecked
	Interacts with Process Management: Checked
	When the user is a step owner, the process will elevate the user's permissions as appropriate.
Read-Only Access	If you want a user to have read-only access to the plan file when the user is not a process step owner, then set the permissions as follows:
	File Access Level: Read-Only
	Allow Save Data: Unchecked
	 Interacts with Process Management: Checked if the ownership assignment comes through a role (can be left unchecked if the user will be assigned directly)
	When the user is a step owner, the process will elevate the user's permissions as appropriate.
Full Access	If you want a user to have full edit rights to the plan file when the user is not a process step owner, then set the permissions as follows:
	File Access Level: Read/Write
	Allow Save Data: Checked
	 Interacts with Process Management: Checked if the ownership assignment comes through a role (can be left unchecked if the user will be assigned directly)

These permissions can be set at the user level, or at a role level, or at some combination of the two (if using **Combine** role inheritance). All other plan file permissions can be enabled or not as appropriate for the user. In some cases, the other permissions will only be relevant when the user's access level has been

elevated by the process. For example, if the user has **No Access** plus **Allow Calc Method Insert**, then the ability to insert calc methods is only relevant when the user is a step owner (because otherwise they will be unable to see or open the plan file).

Enabling Interacts with Process Management

When creating new permission sets for users, **Interacts with Process Management** is enabled by default. You can disable this permission for the user if:

• The permission set grants Read-Only access or higher.

AND

• The permission set does not need to be considered when using role ownership assignments.

When creating new permission sets for roles, **Interacts with Process Management** is disabled by default. You should consider whether to enable the option or leave it disabled, based on how you are granting permissions to users and how you are assigning step owners. Keep in mind the following:

- If ownership assignments are made through a role, then users who belong to the role must have permission to the plan file *and* Interacts with Process Management enabled in order to be a step owner.
- If the role assignment is configured to consider **All permissions**, then it is not necessary to enable **Interacts with Process Management** on the role that will be used as the assignment. In this case, the role simply defines the pool of eligible users. If a user has any permission set with access to the plan file and "interacts" enabled, then they will be a step owner.
- If the role assignment is configured to consider **Only permissions associated with the assigned role**, then either **Interacts with Process Management** must be enabled on the role so that users in the role inherit it, or the users must have an individual permission set with the "interacts" permission that is also configured to combine with the role.

Understanding role inheritance options for file group permissions

Role inheritance for file group permissions is handled differently than in other areas of Security. For each set of permissions defined for a user on the **File Groups** tab, you can specify whether role permissions are inherited and how they are inherited.

File group permissions have three different role inheritance options:

- None
- Combine
- Independent

By default, if no file group permissions are configured for a user, the role inheritance is set to independent. This means that users will inherit file group settings from all roles that they are assigned to, but those inherited settings will be applied independently instead of merged.

The following sections explain how each role inheritance option works.

No inheritance

The **None** option means that no role inheritance applies. Role settings are ignored for this particular permission set. If the user only has one permission set, then role settings are ignored entirely (for settings on the **File Groups** tab).

The following is an example of how file group settings are treated with no inheritance, assuming that the user belongs to the role:

File Group Settings			User Effective Permissions
File Access Level	Read Only	Read/Write	Read Only
Allow Save Data	Unchecked	Checked	Unchecked
Allow Calc Method Insert	Checked	Checked	Checked
Allow Calc Method Change	Unchecked	Checked	Unchecked
Apply settings to	Filtered Plan Files:	Filtered Plan Files:	Filtered Plan Files:
	DEPT.Region='North'	DEPT.Region='South'	DEPT.Region='North'

In this example, the role settings are ignored, and the user has only his or her configured permissions.

Combine inheritance

The **Combine** option means that the user's permissions are combined with role permissions. The user is granted the most permissive rights as defined for either the user or the role, on a per permission basis.

The following is an example of how file group settings are treated with combine inheritance, assuming that the user belongs to the role:

File Group Settings	User Configured Settings	Role Configured Settings	User Effective Permissions
File Access Level	Read Only	Read/Write	Read/Write
Allow Save Data	Unchecked	Checked	Checked
Allow Calc Method Insert	Checked	Checked	Checked
Allow Calc Method Change	Unchecked	Checked	Checked
Apply settings to	Filtered Plan Files:	Filtered Plan Files:	Filtered Plan Files:
	DEPT.Region='North'	DEPT.Region='South'	(DEPT.Region='North') OR (DEPT.Region='South')

In this example, the user and role permissions are combined, and the user is granted the most permissive set of rights available for each individual setting.

When you select combine inheritance, you can choose to combine with all roles that the user is assigned to, or to combine with a specific role. For example, imagine that the user belongs to role A and role B, and the permissions are as follows:

File Group Settings	User Configured Settings	Role A Configured Settings	Role B Configured Settings
File Access Level	Read Only	Read/Write	Read Only
Allow Save Data	Unchecked	Checked	Unchecked
Allow Calc Method Insert	Checked	Checked	Unchecked
Allow Calc Method Change	Unchecked	Checked	Unchecked
Apply settings to	Filtered Plan Files:	Filtered Plan Files:	Filtered Plan Files:
	DEPT.Region='North'	DEPT.Region='South'	DEPT.Country='France'

In this case, the effective permissions of the user depend on whether the combine inheritance is set to all roles, or to a specific role:

File Group Settings	Combine: All Roles	Combine: Role A	Combine: Role B
File Access Level	Read/Write	Read/Write	Read Only
Allow Save Data	Checked	Checked	Unchecked
Allow Calc Method Insert	Checked	Checked	Checked
Allow Calc Method Change	Checked	Checked	Unchecked
Apply settings to	Filtered Plan Files: (DEPT.Region='North') OR (DEPT.Region='South') OR (DEPT.Country='France')	Filtered Plan Files: (DEPT.Region='North') OR (DEPT.Region='South')	Filtered Plan Files: (DEPT.Region='North') OR (DEPT.Country='France')

When combined with all roles, the user is granted the most permissive set of rights across all of the roles. When combined with only one of the roles, the second role is effectively ignored. Unless the user has another set of permissions that allows inheritance from the second role, the user will not inherit any file group settings from the second role.

Independent inheritance

The **Independent** option means that the user inherits permissions from roles, but the role permissions are applied independently from the user's configured permissions. The user and role permissions are not merged, as they are when using the combine option. The user effectively has two sets of permissions: one set based on the user's configured permissions, and one set based on the role's inherited permission. Additionally, if the user belongs to multiple roles, each role's permissions are inherited independently from each other (assuming that the independent inheritance is set to apply to "all roles").

The following is an example of how file group settings are treated with independent inheritance, assuming that the user belongs to the role:

File Group Settings	User Configured Settings	Role Configured Settings
File Access Level	Read Only	Read/Write
Allow Save Data	Unchecked	Checked
Allow Calc Method Insert	Checked	Checked
Allow Calc Method Change	Unchecked	Checked
Apply settings to	Filtered Plan Files:	Filtered Plan Files:
	DEPT.Region='North'	DEPT.Region='South'

In this example, the user's effective permissions are the same as the user configured permissions and the role configured permission, except applied separately. When the user accesses a plan file that belongs to the North region, it will be read only, and the user will not be able to change calc methods. When the user accesses a plan file that belongs to the South region, it will be read/write, and the user has all of the other plan file permissions as defined for the role.

If there is any overlap between the two independent permissions, then the user will be granted the most permissive set of rights for the area of overlap only. In the above example the filters cannot overlap, but imagine that the user and role filters were instead something like the following:

User Filter: DEPT >= 5000 and DEPT < 6000 Role Filters: DEPT >= 4000 and DEPT < 6000

In this case, the role permissions alone would apply to any departments from 4000 up to 4999. Where the permissions overlap, for departments 5000 to 5999, the user and role permissions would be combined.

NOTE: If you use independent inheritance with a specific role instead of all roles, that configuration blocks inheritance from all other roles unless the user has another permission set that allows the inheritance from the other roles.

Multiple permission sets

For each file group, a user can have multiple sets of permissions that apply to the plan files in that file group. This allows you to define different permissions for different subsets of files. For example, you might want to give a user full read/write access to plan files belonging to the North region, but only read access to plan files belonging to the South region. In this case, you can create two sets of permissions for the user.

If a user has multiple permission sets, each permission set has its own role inheritance settings. For example, you may want to define filters at the user level, but define other access rights at the role level, as shown in the following example:

File Group Settings	User Configured Settings (Set 1)	Role A Configured Settings	User Effective Permissions (Combine: Role A)
File Access Level	None	Read/Write	Read/Write
Allow Save Data	Unchecked	Checked	Checked
Allow Calc Method Insert	Unchecked	Checked	Checked
Allow Calc Method Change	Unchecked	Checked	Checked
Apply settings to	Filtered Plan Files:	Filtered Plan Files:	Filtered Plan Files:
	DEPT.Region='North'	<blank filter=""></blank>	DEPT.Region='North'

User Permission Set 1, Combine: Role A

User Permission Set 2, Combine: Role B

oser remission set 2, combine. Nor			
File Group Settings	User Configured Settings (Set 2)	Role B Configured Settings	User Effective Permissions (Combine: Role B)
File Access Level	None	Read Only	Read Only
Allow Save Data	Unchecked	Unchecked	Unchecked
Allow Calc Method Insert	Unchecked	Checked	Checked
Allow Calc Method Change	Unchecked	Unchecked	Unchecked
Apply settings to	Filtered Plan Files:	Filtered Plan Files:	Filtered Plan Files:
	DEPT.Region='South'	<blank filter=""></blank>	DEPT.Region='South'

The ability to define multiple permission sets with separate inheritance settings is a very flexible feature, able to meet a wide variety of security needs. When using multiple permission sets, keep in mind that it is possible to configure settings that cancel out or contradict the settings of another set.

For example, if you configure one permission set with no role inheritance, and then you configure a second permission set with independent inheritance, then the no inheritance setting on the first set is pointless (since you are already independently inheriting all role settings from the second set). On the other hand, it can be meaningful to have no inheritance on the first permission set, and then combine inheritance on the second permission set (for either all roles or a specific role). Make sure that you understand the purpose of each permission set, and check the effective permissions section for the user to ensure that permissions are being inherited as intended.

Configuring table permissions (Tables tab)

On the Tables tab of the Security Management dialog, you can manage user access to tables. You can control what data a user can query from a table (read access), and what data a user can save to a table (write access).

Table access can be managed at the table level and at the table type level. By default, users have the following permissions:

- All table types, and stand-alone data tables and reference tables, start at "no access" for both read and write. You must configure access to these table types and tables on a per user or role basis. If access is defined for a table type, then any tables added to the table type will automatically inherit that access.
- All document reference tables are automatically set to full read access, via the Everyone role.

NOTES:

- If a user is an administrator, the settings on this tab are ignored. Administrators can access data in all tables.
- If you are defining permissions for a subsystem, see Defining maximum permissions for subsystems.

Understanding table permissions

This section explains how the table access settings in Security work.



Read access and write access

Each table and table type can have read access permissions and write access permissions.

• Read access defines what data a user can query from a table—for example, via a GetData function or by running an Axiom query. For each table or table type, a user can have no read access, full read access, or filtered read access.

• Write access defines what data a user can save to a table. For most users this means via a Save Type 1 process set up in a plan file or a report, but it also applies to Open Table in Spreadsheet (if the user has access to it). For each table or table type, a user can have no write access, full write access, or filtered write access.

NOTE: Table write access does not apply to document reference tables (Save Type 3). Document reference tables can only be created and edited via a source document; therefore the ability to write data to the table is controlled by the user's access rights to the source document. Also, write access is ignored for import packages—if the user has execute rights to an import, then they can save the imported data to the specified destination table, regardless of their write access to that table.

By default, the write access for a table or table type is set to the same level as the read access. If that is the desired level of access, then you only need to configure the read access; the write access will be automatically set. You can see this inheritance for the write access in the **Effective Permissions** box after you set the read access.

However, if you want differing levels of read and write access for a table or table type, then you must select the **Specify custom write access** check box, and then configure the specific write access.

If the read access is set to	And the write access is set to	The user's permission is
Full Access	(Default)	Read: Full Access
		Write: Full Access
Filter: DEPT.Region='North'	(Default)	Read: DEPT.Region='North'
		Write: DEPT.Region='North'
Full Access	Specify custom write access:	Read: Full Access
	Filter: DEPT.Region='North'	Write: DEPT.Region='North'
Full Access	Specify custom write access:	Read: Full Access
	Filter: <blank filter=""></blank>	Write: No Access
No Access	Specify custom write access:	Read: No Access
	Full Access	Write: Full Access

For example, imagine the following settings for the table GL2020:

NOTES:

For reference tables, the read access settings are only applied when the reference table is queried directly—for example, when viewing the reference table using **Open Table in Spreadsheet**, or when the reference table is the *primary* table of an Axiom query. The read access settings defined on a reference table are not applied when queries are made against a data table that joins to the reference table.

Therefore if you want to restrict access to *data*, the filter must be defined on the data table or its table type. For example, if you want to restrict a user to only viewing planning data for the North region, then you must define that filter on the data table or the table type, not on the DEPT reference table.

- Read filters are not applied to data that already exists in a spreadsheet. For example, when the administrator runs the **Process Plan Files** utility to process Axiom queries in plan files, the plan files are populated with data according to the administrator's data rights. When individual users open these plan files, they see all of the data that was populated into the spreadsheet. The read filters of the individual users would only be applied if the users processed Axiom queries by using the Refresh feature. If you would like to limit data access in plan files, you can consider dynamically hiding sheets that you do not want particular users to access.
- Keep in mind that just because a user has write access to a table, it does not mean that the user actually has the means to save any data. For example, in order for a user to save data to a table from a plan file, the user must have access rights to the plan file, and the permission to save data from the file, and the file must be configured to save data to the table. If a user does not have access to files and/or features that facilitate saving data to the database, then the user cannot save any data, regardless of his or her write access permissions.

How table type access and table access combine

Tables inherit any rights set at the table type level, and then combine that access with any rights set at the table level, resulting in the most permissive set of rights for the table.

- If a table type is set to full or filtered access, then all tables in that table type inherit the full or filtered access. You cannot "override" the table type setting at the table level to deny access to a specific table in the table type. You can set individual tables to have more permissive access than the table type, but not less permissive.
- If desired, you can leave the table type access unset, and instead configure access at the table level. The user will be granted whatever access is set at the table level.
- If access filters are set at both the table type level and the table level, the filters are concatenated using OR (meaning the filters are combined to result in the most permissive set of rights for the table).

For example, imagine a table type of GL, which contains a table named GL2020:

If the table type GL is set to	And the table GL2020 is set to	The user's permission is
Full Access	No Access (nothing is configured)	Full Access
Full Access	DEPT.Region='North'	Full Access
No Access (nothing is configured)	DEPT.Region='North'	DEPT.Region='North'
DEPT.Region='South'	Full Access	Full Access
DEPT.Region='South'	DEPT.Region='North'	(DEPT.Region='South') OR (DEPT.Region='North')

Tables that do not belong to a table type only have their individual table access rights.

Table visibility to users

If a user does not have any read access to a table, then that table will not display in lists of tables throughout the system, such as in the Sheet Assistant, or the Filter Wizard. Table Library folders and table types will only display if the user has read access to at least one table within the folder or the table type. (Exception: if the user has the Administer Tables permission, then that user will see all Table Library folders and table types for the purposes of creating new tables.)

Table permissions

The settings on the **Tables** tab define access for each table or table type. The left-hand side of the tab lists the available tables in the system, organized by table type. Tables that do not belong to a table type are listed under **(No Type)**. When you select a table or a table type in the list, you can configure the security settings for the user or role within the **Configured Permissions** section in the right-hand side of the tab.

> 🔟	(No Type)		\sim	Table type: GL
	GL BGT2014 BGT2015 BGT2016 BGT2017_V BGT2017_V BGT2018 GL2013 GL2014 GL2015 GL2016 GL2017	11		Configured Permissions Full Access Filter: DEPT.WorldRegion = 'Europe' Specify custom write access Open table in spreadsheet: None ~ Allow changing table structure Ignore role inheritance
7	v configured it		<	Effective Permissions Read filter: DEPT.WorldRegion = 'Europe' Write filter: DEPT.WorldRegion = 'Europe' Open table in spreadsheet: None Change structure: False Show Details

Example Tables tab

The **Effective Permissions** section displays the full permissions of the user for the selected item, taking into account any rights inherited from the table type or a role, and other settings such as administrator rights or subsystem restrictions. Make sure to check this section to ensure that users are being granted rights as you expect.

Because table permissions can be set at any point in the treeview, it can be difficult to later tell which items have been configured. To change the view to only show items with configured permissions, select the check box for **Show configured items only**. If the treeview is blank after selecting this check box, this means that the user or role has no configured permissions.

NOTE: By default, the Everyone role grants all users full read access to document reference tables. Any changes made to document reference tables in the **Tables** tab will not apply to users unless you modify the Everyone role to remove full access (or unless you configure the user to ignore role inheritance for that table).

Read access settings

The following settings apply to all tables and table types, to define read access to data. By default, the write access is automatically set to the same level as the read access. If that is the desired level of access, then you do not need to do anything further to configure write access for a table or table type.

Item	Description
Full access (Full read access)	Select this check box if you want the user or role to have full access to the table or table type.
	By default, this check box grants full read and write access. If you want to configure write access separately, then you must enable the separate option to Specify custom write access . Selecting that option exposes additional settings for write access, and renames this check box to Full read access .
	NOTE: If you are defining access for a table that belongs to a table type, and full access has already been granted at the table type level, then this check box is effectively ignored. However, the setting will be stored at the table level and could apply in the future if the table type access is ever changed, or if the table is removed from the table type. Be sure to check the Effective Permissions section of the dialog to see what level of access is being granted due to inheritance.
Filter	If you want the user or role to have filtered access to the table or table type, specify the filter. For example:
(Read filter)	 ACCT.Acct>10000 restricts the user to only accessing data for accounts over 10000.
	 DEPT.Dept=100 restricts the user to only accessing data for department 100.
	 DEPT.Region='North' restricts the user to only accessing data for departments assigned to the North region.
	By default, the filter applies to both read and write access. If you want to configure write access separately, then you must enable the separate option to Specify custom write access . Selecting that option exposes additional settings for write access, and renames this option to Read filter .
	NOTE: If you are defining a filter for a table that belongs to a table type, the filter will be concatenated to the table type filter using OR. If full access has been granted at the table type level, then the table level filter is effectively ignored. However, the filter will be stored for the table and could apply in the future if the table type access is ever changed, or if the table is removed from the table type. Be sure to check the Effective Permissions section of the dialog to see what level of access is being granted due to inheritance.

To define a filter for a table or table type, type the filter into the **Filter** box, or use the Filter Wizard **V**. Note the following:

- If the filter is for a table type, the filter should be based on key columns that are common to all tables in the table type (using either the key column itself, or a column in the lookup table that the key column links to). For example, if the GL table type has two required key columns, ACCT and DEPT, then you can create a table type filter that uses one or both of these columns, or one that uses grouping columns in the associated reference tables. Filters using any other columns may be invalid.
- If the table type has required columns, then any filter defined must be based on those required columns. If the required columns do not have lookups, then no valid filters can be defined.
- When selecting key columns in the Filter Wizard, the Filter Wizard automatically uses the lookup column in the reference table instead of the column in the data table. For example, if you select the column Acct in the GL2020 data table, the filter wizard automatically uses ACCT.ACCT in the filter (instead of GL2020.ACCT).

After defining a filter, you can validate the filter syntax by clicking the Validate filter button 🦆.

IMPORTANT: If you define a write filter on a reference table, then any columns used in the filter must also be included in the save definition when saving to that table using Save Type 1. For example, if the table is DEPT and the filter uses DEPT.Region, then the Region column must be included in the save definition in order for the user to save data.

Write access settings

The following settings only apply if you want to configure write access at a different level than the read access.

NOTE: Write access settings do not apply to document reference tables. Document reference tables are only created and edited via a source document; therefore the ability to write data to the table is controlled by the user's access rights to the document.

Item	Description
Specify custom write access	Select this check box if you want to configure write access at a different level than the read access.
	When this check box is selected, two additional settings become available in the dialog to set the write access: Full write access and Write filter.
	If you want the user to have no write access to the table, then select this check box and ignore the other write access settings. If Full write access is unchecked and Write filter is blank, then the user has no write access.

Item	Description
Full write access	Select this check box if you want the user or role to have full write access to the table or table type.
	NOTE: If you are defining access for a table that belongs to a table type, and full access has already been granted at the table type level, then this check box is effectively ignored. However, the setting will be stored at the table level and could apply in the future if the table type access is ever changed, or if the table is removed from the table type. Be sure to check the Effective Permissions section of the dialog to see what level of access is being granted due to inheritance.
Write filter	If you want the user or role to have filtered write access to the table or table type, specify the filter. For example:
	 ACCT.Acct>10000 restricts the user to only saving data for accounts over 10000.
	• DEPT.Dept=100 restricts the user to only saving data for department 100.
	 DEPT.Region='North' restricts the user to only saving data for departments assigned to the North region.
	NOTE: If you are defining a filter for a table that belongs to a table type, the filter will be concatenated to the table type filter using OR. If full access has been granted at the table type level, then the table level filter is effectively ignored. However, the filter will be stored for the table and could apply in the future if the table type access is ever changed, or if the table is removed from the table type. Be sure to check the Effective Permissions section of the dialog to see what level of access is being granted due to inheritance.

To define a filter for a table or table type, type the filter into the **Filter** box, or use the Filter Wizard **V**. Note the following:

- If the filter is for a table type, the filter should be based on key columns that are common to all tables in the table type (using either the key column itself, or a column in the lookup table that the key column links to). For example, if the GL table type has two required key columns, ACCT and DEPT, then you can create a table type filter that uses one or both of these columns, or one that uses grouping columns in the associated reference tables. Filters using any other columns may be invalid.
- If the table type has required columns, then any filter defined must be based on those required columns. If the required columns do not have lookups, then no valid filters can be defined.
- When selecting key columns in the Filter Wizard, the Filter Wizard automatically uses the lookup column in the reference table instead of the column in the data table. For example, if you select the column Acct in the GL2020 data table, the filter wizard automatically uses ACCT.ACCT in the filter (instead of GL2020.ACCT).

After defining a filter, you can validate the filter syntax by clicking the Validate filter button 🦆.

IMPORTANT: If you define a write filter on a reference table, then any columns used in the filter must also be included in the save definition when saving to that table using Save Type 1. For example, if the table is DEPT and the filter uses DEPT.Region, then the Region column must be included in the save definition in order for the user to save data.

Other table permissions

The following permissions can also be defined for tables and table types:

Item	Description
Open Table in Spreadsheet	This option specifies whether the user can view the table in Open Table in Spreadsheet, and at what level of access. Select one of the following:
	None (default): The user cannot view the table in Open Table in Spreadsheet.
	 Read-Only: The user can view the table as read-only in Open Table in Spreadsheet.
	 Read/Write: The user can view the table as read/write in Open Table in Spreadsheet.
	Granting this permission gives the user access to the Table Library, so that the user can launch Open Table in Spreadsheet for the table.
	This permission does not apply to document reference tables. Document reference tables cannot be opened via Open Table in Spreadsheet.
	This permission can only be assigned if the user has read or read/write permission to the table data (either configured on the user or inherited from a role). If the user inherits Open Table in Spreadsheet permission from a role but does not have any corresponding access to table data, then the permission will be ignored. If the user is granted read/write access to Open Table in Spreadsheet but only has read access to the table, then the spreadsheet access will be limited to read-only.

Item	Description
Allow changing table structure	Select this check box if you want the user to be able to edit the table structure and table properties. If selected, then the user can open the Edit Table dialog for the table. The user can add, modify, and delete table columns, as well as modify other table properties.
	Granting this permission gives the user access to the Table Library, so that the user can launch Edit table structure for the table.
	By default this option is not selected, which means the user cannot edit the table structure or table properties.
	This permission does not apply to document reference tables. The table structure of document reference tables is controlled via the source file.
	This permission can be granted regardless of whether the user has access to the table data.
Ignore role inheritance	Select this check box if you do not want the user to inherit table access settings from a role (including the Everyone role).
	 If selected, then only the user's individual settings will be used to determine access to data in the table or table type.
	 If this check box is not selected, then the user will be granted the most permissive set of rights among the user's configured settings and any roles that the user belongs to. If both the user and a role have filtered access, then the filters are concatenated using OR.

Restricting access to document reference tables

By default, all users have full read access to document reference tables, via the Everyone role. In most cases this is the desirable level of access. However, in some cases you may need to restrict access to a subset of users. To restrict access to a document reference table, you must do the following:

- In the Everyone role, clear the Full Access check box for the table. Now no non-admin users have access to the table.
- For each individual user or role that you want to grant full or filtered access to the table, modify the table access settings as desired.

TIP: Alternatively, you could leave the Everyone role at full access, and then modify specific users to **Ignore role inheritance** for the table. Those users would then have no access to the table.

Write access settings do not apply to document reference tables. Document reference tables are only created and edited via a source document; therefore the ability to write data to the table is controlled by the user's access rights to the document.

NOTE: If you have restricted access to a document reference table created by a driver file, keep in mind that your security changes will not be cloned when the file group is cloned. This is because the table itself is not cloned; the driver file is. If you want to apply the same changes to the new table created by the new driver file, then you will need to manually configure access to this table after processing the drivers for the new file group.

Configuring file access (Files tab)

On the **Files** tab of the **Security Management** dialog, you can control access to files in the Axiom Capital Tracking file system. The following areas can be controlled:

- The Reports Library
- The Data Diagrams Library
- The Filter Library
- The Imports Library and the Exports Library
- The Process Definitions Library
- The Scheduler Jobs Library
- The Task Panes Library
- The Ribbon Tabs Library
- Certain supporting files for file groups: Templates, Drivers, Utilities, and Process Definitions

NOTES:

- File permissions do not apply to users with administrator rights. Administrators always have full access to all files.
- File permissions must be defined within the Security Management dialog. The bulk editing tool Open Security in Spreadsheet does not support configuring file and folder permissions.
- If you are defining file permissions for a subsystem, see Defining maximum permissions for subsystems.

Configuring file permissions

The left-hand side of the **Files** tab displays the available folders and files. When you select a folder or a file in the list, you can define the security settings for the user or role within the **Configured Permissions** section in the right-hand side of the tab.

General Permissions File Groups Tat Edit Axiom file system permissions.	bles Files	Startup	
 Reports Library Budget Reports Data Explorers File Processing Forms Forms Forms Misc Reports Samples Startup Startup Supporting Documents Utilities Scheduler Jobs Library Exports Library Task Panes Library Ribbon Tabs Library Process Definition Library File Groups 		Reports Library Configured Perm Access: Read Only Show in Explor Allow Save Data Allow Sheet As Allow File Proc Effective Permission: Access: Show in Explorer Save Data: Unprotect: Sheet Assistant: File Processing Assis Show Details	rer ta ct sisistant essing s Read Only Allowed Not allowed Not allowed Not allowed
Show configured items only			

Example Files tab

File permissions can be set at the folder level and at the file level. By default, all sub-folders and files underneath a parent folder inherit the rights of the parent folder, unless rights are explicitly set for the sub-folder or file.

You can set permissions at the library level and then override those permissions for specific sub-folders and files as needed, or you can set permissions for specific sub-folders and files only.

By default, each user or role has no access to any files or folders on this tab. You must define file permissions for each user or role.

To configure permissions to a file or folder:

1. Select the file or folder in the treeview, and then select **Configured Permissions**.

If this check box is selected for a sub-folder or a specific file, the sub-folder or file will no longer inherit any permissions set for the parent folder. You can clear the check box, and the sub-folder or file will once again inherit permissions from the parent folder.

2. Select the applicable permission options as desired.

Each type of file (reports, import, etc.) has slightly different security settings that can be defined on this tab. For more information on the file-specific options, see the detailed sections.

If a new folder or file is added to any library, a user will have access to it if the folder or file is placed underneath an existing parent folder that the user has rights to. For example, if a user has rights to the entire Reports Library, that user will have access to any new folders and files added to the Reports Library. If a user only has rights to a specific sub-folder in the Reports Library, that user will have access to new folders and files added to that sub-folder.

The **Effective Permissions** section displays the full permissions of the user, taking into account any inherited role rights, and other settings such as administrator rights. This section also takes into account rights that are inherited from a parent folder.

NOTE: Because file permissions can be set at any point in the treeview, it can be difficult to later tell which items have been configured. To change the view to only show items with configured permissions, select the check box for **Show configured items only**. If the treeview is blank after selecting this check box, this means that the user or role has no configured permissions.

Reports Library

The following permissions can be set for files in the Reports Library:

Option	Description
Access	Select one of the following:
	No Access: The user or role cannot access the folder or file.
	Read Only: The user or role has read-only access to the folder or file.
	Users with read-only access to reports can open and refresh reports, but cannot save changes. If read access is set at the folder level, users cannot save new reports to that folder.
	Read/Write: The user or role has read/write access to the folder or file.
	If the item is a file, the user can save changes to the file. If the item is a folder, the user can also save new files to the folder, create sub-folders, and delete and rename files and folders.

Option	Description
Show in Explorer	Select this check box if you want the file to display in the Explorer task pane and other "Explorer views" of the file library (such as Axiom Explorer, libraries displayed on the ribbon menu, and libraries displayed when saving files). This check box becomes selected by default when you assign an access level of Read Only or higher.
	If this check box is cleared, and the user has Read Only access or higher, then the file does not display in Explorer views but the user can still open the file if the user has access to a feature that indirectly opens the file. This includes features such as custom drilling, GetDocument functions, and file shortcuts in task panes and ribbon tabs. The idea is that the user never needs to directly open the file from a folder structure, but the user needs access to the file in order to use these other features.
	If the user's access level is No Access, then this setting is ignored.
	For example, you might clear this check box for the target report of a custom drill. The user only needs to be able to access this report when performing a custom drill on the source file. Displaying the file in the Reports Library would just clutter the list of files because the user never needs to open the file from that location.
	NOTE: The Reports Library dialog (accessible from Reports > All Reports) does not honor this permission. If a user has at least read-only access to a report, it will show in this dialog, regardless of the Show in Explorer permission.
Allow Save Data	Select this check box if you want the user or role to be able to save data to the database for the folder or file. If a report is set up to use Save Type 1, 3, or 4, the user will be able to save data to the database.
	If this check box is not selected, then the user cannot save data to the database from the report.
	NOTE: If a user has Read Only access and Allow Save Data , then the user will be able to save data to the database but not save changes to the file. Note that users with this combination of rights can save data from the file at any time, regardless of whether the file is locked to another user.

Option	Description
Allow Unprotect	Select this check box if you want the user or role to be able to remove workbook and/or worksheet protection for this folder or file.
	Users with this permission can use the Advanced > Protect options on the ribbon to remove workbook or worksheet protection from Axiom files.
	IMPORTANT: If you enable this permission at the folder level, then the user will be able to unprotect any file that they save to the folder (assuming that the user has read/write access to the folder).
	NOTE: This setting is ignored for users with the Remove Protection permission on the Permissions tab; those users can remove protection for any file.
Allow Sheet Assistant	Select this check box if you want the user or role to see the Sheet Assistant. Generally, you should only expose the Sheet Assistant if the user is expected to edit file settings, including Axiom query settings.
	Enabling this permission also has the following impacts:
	• The user has access to the Control Sheet. If the Control Sheet is hidden in the document, the user can make it visible by double-clicking any field name in the Sheet Assistant.
	 If the user has read / write permission and the Sheet Assistant permission, then the user can enable forms for the file and can see the Form Assistant and Form Control Sheet.
	 The Drilling Control Sheet, if present in the file, is not hidden if the user has the Sheet Assistant permission.
	The Data Source Assistant is also available if the Sheet Assistant is available.
	If this check box is not selected, then the user cannot see the Sheet Assistant or the other related items as described above.
Allow File Processing	Select this check box if you want the user or role to be able to perform file processing on the file. If selected, then the user has access to file processing features, including the File Processing button on the menu and the File Processing task pane. The related control sheets will also be visible to the user.
	If this check box is not selected, then the user cannot perform file processing actions and cannot see the related menu items, task panes, or control sheets.

NOTE: If a user does not have access to any report files or folders, then the Reports menu item does not display on the menu, and the user cannot create reports.

▶ Filter Library

The following permissions can be set for files in the Filter Library:

Option	Description
Access	Select one of the following:
	No Access: The user or role cannot access the folder or filter.
	Read Only: The user or role has read-only access to the folder or filter.
	Users with read-only access to saved filters can load those filters into the Filter Wizard for use. If read access is set at the folder level, users cannot save new filters to that folder.
	Read/Write: The user or role has read/write access to the folder or filter.
	If the item is a filter, the user can save changes to the filter. If the item is a folder, the user can also save new filters to the folder, create sub-folders, and delete and rename filters and folders.
Show in Explorer	Select this check box if you want the file to display in the Explorer task pane and other "Explorer views" of the file library (such as Axiom Explorer, libraries displayed on the ribbon menu, and libraries displayed when saving files). This check box becomes selected by default when you assign an access level of Read Only or higher.
	If this check box is cleared, and the user has Read Only access or higher, then the file does not display in Explorer views but the user can still open the file if the user has access to a feature that indirectly opens the file. This includes features such as custom drilling, GetDocument functions, and file shortcuts in task panes and ribbon tabs. The idea is that the user never needs to directly open the file from a folder structure, but the user needs access to the file in order to use these other features.
	If the user's access level is No Access, then this setting is ignored.

Scheduler Jobs Library

NOTE: Users must also have the **Scheduled Jobs User** permission (on the **Permissions** tab) in order to access any files in the Scheduler Jobs Library.

IMPORTANT: Users do not have to have any file permissions to a Scheduler job in order to execute that job via an event handler (such as when using Run Event or Raise Event).

The following permissions can be set for files in the Scheduler Jobs Library:

Option	Description
Access	Select one of the following:
	No Access: The user or role cannot access the folder or file.
	Read Only: The user or role has read-only access to the folder or file.
	Users with read-only access to Scheduler jobs can open jobs and can manually execute jobs, but cannot save changes. If read access is set at the folder level, users cannot save new jobs to that folder.
	Read/Write: The user or role has read/write access to the folder or file.
	If the item is a file, the user can save changes to the file. If the item is a folder, the user can also save new files to the folder, create sub-folders, and delete and rename files and folders.
Show in Explorer	Select this check box if you want the file to display in the Explorer task pane and other "Explorer views" of the file library (such as Axiom Explorer, libraries displayed on the ribbon menu, and libraries displayed when saving files). This check box becomes selected by default when you assign an access level of Read Only or higher.
	If this check box is cleared, and the user has Read Only access or higher, then the file does not display in Explorer views but the user can still open the file if the user has access to a feature that indirectly opens the file. This includes features such as custom drilling, GetDocument functions, and file shortcuts in task panes and ribbon tabs. The idea is that the user never needs to directly open the file from a folder structure, but the user needs access to the file in order to use these other features.
	If the user's access level is No Access, then this setting is ignored.
	For example, you might clear this check box if a user needs to be able to open a Scheduler job from a shortcut in a task pane, but otherwise the user does not need to be able to browse to it in the Scheduler Jobs Library.

Exports Library

The following permissions can be set for files in the Exports Library:

Option	Description
Access	Select one of the following:
	 No Access: The user or role cannot open the folder or file (however, they can execute the export, if they have the separate Execute permission).
	Read Only: The user or role has read-only access to the folder or file.
	Users with read-only access to exports can open export files to view the settings, but they cannot edit the settings.
	Read/Write: The user or role has read/write access to the folder or file.
	If the item is a file, the user can save changes to the file. If the item is a folder, the user can also save new files to the folder, create sub-folders, and delete and rename files and folders.
	NOTE: Read/write access to the Exports Library does not allow the user to create exports. Export creation is controlled by the Administer Exports permission on the Permissions tab.
Execute	Select this check box to give the user execute permissions to the folder or file. Users with execute permissions can run the export.
	NOTE: Table read permissions are honored for export packages. When the user executes the export, the user's permission to the table will determine the eligible data to export. If the user does not have access to the table at all, then no data will be exported.

Option	Description
Show in Explorer	Select this check box if you want the file to display in the Explorer task pane and other "Explorer views" of the file library (such as Axiom Explorer, libraries displayed on the ribbon menu, and libraries displayed when saving files). This check box becomes selected by default when you assign an access level of Read Only or higher.
	If this check box is cleared, and the user has Read Only access or higher, then the file does not display in Explorer views but the user can still open the file if the user has access to a feature that indirectly opens the file. This includes features such as custom drilling, GetDocument functions, and file shortcuts in task panes and ribbon tabs. The idea is that the user never needs to directly open the file from a folder structure, but the user needs access to the file in order to use these other features.
	For example, you might clear this check box if a user needs to be able to execute an export from a shortcut in a task pane, but otherwise the user does not need to be able to browse to it in the Exports Library.
	NOTE: If a user has Execute permissions but No Access to the export file, then you should select this check box if you want the export to display in the Export Library. When using this configuration, the user can double-click the file to open the Execute dialog only. If, however, the user will only execute the export from links in a task pane or other predefined links, then you can leave this option cleared.

NOTE: The export access permission and the execute permission are independent. A user can have no access to an export file but still be given execute permissions. Similarly, a user can have read/write access to the export settings, but not be able to execute it.

Imports Library

The following permissions can be set for files in the Imports Library:

Option	Description
Access	Select one of the following:
	 No Access: The user or role cannot access the folder or file (however, they can execute the import, if they have the separate Execute permission).
	Read Only: The user or role has read-only access to the folder or file.
	Users with read-only access to imports can open import files to view the settings, but they cannot edit the settings.
	Read/Write: The user or role has read/write access to the folder or file.
	If the item is a file, the user can save changes to the file. If the item is a folder, the user can also save new files to the folder, create sub-folders, and delete and rename files and folders.
	NOTE: Read/write access to the Imports Library alone does not allow the user to create new imports. The user must also have the Administer Imports permission on the Permissions tab.
Execute	Select this check box to give the user execute permissions to the folder or file. Users with execute permissions can run the import.
	NOTE: Table write permissions are ignored for import packages. If a user has execute rights to an import, then the imported data will be saved to the configured destination table, regardless of the user's write access to that table.
Show in Explorer	Select this check box if you want the file to display in the Explorer task pane and other "Explorer views" of the file library (such as Axiom Explorer, libraries displayed on the ribbon menu, and libraries displayed when saving files). This check box becomes selected by default when you assign an access level of Read Only or higher.
	If this check box is cleared, and the user has Read Only access or higher, then the file does not display in Explorer views but the user can still open the file if the user has access to a feature that indirectly opens the file. This includes features such as custom drilling, GetDocument functions, and file shortcuts in task panes and ribbon tabs. The idea is that the user never needs to directly open the file from a folder structure, but the user needs access to the file in order to use these other features.
	If the user's access level is No Access, then this setting is ignored.
	NOTE: If a user has Execute permissions but No Access to the import file, then you should select this check box if you want the import to display in the Import Library. When using this configuration, the user can double-click the file to open the Execute dialog only. If, however, the user will only execute the import from links in a task pane or other predefined links, then you can leave this option cleared.

NOTES:

- The import access permission and the execute permission are independent. A user can have no access to an import file but still be given execute permissions. Similarly, a user can have read/write access to the import settings, but not be able to execute it.
- The Import Errors folder is system-maintained and therefore does not display in this dialog. You cannot manually grant or deny access to this folder or the error files within it; access is automatically granted based on access to the import that generated the error.
- If an import uses an Axiom database as its source, then non-administrators cannot view or edit that import regardless of their access rights granted here. However, non-administrators can execute the import if they have that permission.

Task Panes Library

The following permissions can be set for files in the Task Panes Library:

Option	Description	
Access	Select one of the following:	
	No Access: The user or role cannot access the folder or file.	
	Read Only: The user or role has read-only access to the folder or file.	
	Users with read-only access to task panes can view and use task panes but cannot save changes. If read access is set at the folder level, users cannot save new task panes to that folder.	
	Read/Write: The user or role has read/write access to the folder or file.	
	If the item is a file, the user can save changes to the file. If the item is a folder, the user can also save new files to the folder, create sub-folders, and delete and rename files and folders.	
	NOTE: Users must also have the Administer Task Panes permission (on the Permissions tab) in order to create or edit task panes.	

Option	Description
Show in Explorer	Select this check box if you want the file to display in the Explorer task pane and other "Explorer views" of the file library (such as Axiom Explorer, libraries displayed on the ribbon menu, and libraries displayed when saving files). This check box becomes selected by default when you assign an access level of Read Only or higher.
	If this check box is cleared, and the user has Read Only access or higher, then the file does not display in Explorer views but the user can still open the file if the user has access to a feature that indirectly opens the file. This includes features such as custom drilling, GetDocument functions, and file shortcuts in task panes and ribbon tabs. The idea is that the user never needs to directly open the file from a folder structure, but the user needs access to the file in order to use these other features.
	If the user's access level is No Access, then this setting is ignored.
	For example, you might clear this check box if a user needs to be able to open an associated task pane for a file, but otherwise the user does not need to be able to open the task pane from the Task Panes Library.
open a file feature.	can contain shortcuts to various files and system features. The ability of a user to or use a feature from the task pane depends on the user's permission for that file or
user is assi	ot need to have access permission to a task pane in order to open it at startup. If a gned a task pane on the Startup tab of security, it will always open as read-only at gardless of the user's access permission.

By default, the Axiom ribbon tab does not contain any command to open task panes. If a user has rights to a file in the Task Panes Library, then in order to see and open this file manually the user must have access to either the Explorer task pane or the Axiom Explorer dialog, or you must include access to the task pane within another custom task pane or ribbon tab file that is assigned as a startup file to the user. For example, you might create a custom task pane that includes a link to the Task Panes Library, and if a user has file access rights to any task panes they could be launched from this location. Users only gain access to the Manage > Task Panes menu item if they have the Administer Task Panes security permission.

Ribbon Tabs Library

The following permissions can be set for files in the Ribbon Tabs Library:

Option	Description	
Access	Select one of the following:	
	No Access: The user or role cannot access the folder or file.	
	Read Only: The user or role has read-only access to the folder or file.	
	Users with read-only access to task panes can view ribbon tab files but cannot save changes. If read access is set at the folder level, users cannot save new ribbon tab files to that folder.	
	Read/Write: The user or role has read/write access to the folder or file.	
	If the item is a file, the user can save changes to the file. If the item is a folder, the user can also save new files to the folder, create sub-folders, and delete and rename files and folders.	
	NOTE: Users must also have the Administer Task Panes permission (on the Permissions tab) in order to create or edit task panes.	
Show in Explorer	Select this check box if you want the file to display in the Explorer task pane and other "Explorer views" of the file library (such as Axiom Explorer, libraries displayed on the ribbon menu, and libraries displayed when saving files). This check box becomes selected by default when you assign an access level of Read Only or higher.	
	If this check box is cleared, and the user has Read Only access or higher, then the file does not display in Explorer views but the user can still open the file if the user has access to a feature that indirectly opens the file. This includes features such as custom drilling, GetDocument functions, and file shortcuts in task panes and ribbon tabs. The idea is that the user never needs to directly open the file from a folder structure, but the user needs access to the file in order to use these other features.	
	If the user's access level is No Access, then this setting is ignored.	
	This setting does not have much use for ribbon tab files because ribbon tabs are typically configured as startup files for end users, and end users do not need access permission to be able to open the file at startup.	

NOTES:

- Users do *not* need to have access permission to a ribbon tab in order to open it at startup. If a user is assigned a ribbon tab on the Startup tab of security, it will always open as read-only at startup, regardless of the user's access permission.
- In general, there is no need to grant end users access to the Ribbon Tabs Library unless the user needs to be able to create and edit ribbon tabs. If a user opens a ribbon tab file directly from the Ribbon Tabs Library, it will always open in the editor, not in the application ribbon. There is no way to open a ribbon tab file on demand and have it display in the application ribbon.

Process Definition Library

The following permissions can be set for files in the Process Definition Library:

Option	Description	
Access	Select one of the following:	
	No Access: The user or role cannot access the folder or file.	
	Read Only: The user or role has read-only access to the folder or file.	
 Users with read-only access to the file can open the process definition the Explorer task pane and view the settings. Read/Write: The user or role has read/write access to the folder or file 		
	Users with read/write access cannot start or stop the process, they can only edit the process definition settings.	

Option	Description
Show in Explorer	Select this check box if you want the file to display in the Explorer task pane and other "Explorer views" of the file library (such as Axiom Explorer, libraries displayed on the ribbon menu, and libraries displayed when saving files). This check box becomes selected by default when you assign an access level of Read Only or higher.
	If this check box is cleared, and the user has Read Only access or higher, then the file does not display in Explorer views but the user can still open the file if the user has access to a feature that indirectly opens the file. This includes features such as custom drilling, GetDocument functions, and file shortcuts in task panes and ribbon tabs. The idea is that the user never needs to directly open the file from a folder structure, but the user needs access to the file in order to use these other features.
	If the user's access level is No Access, then this setting is ignored.
	For example, you might clear this check box if a user needs to be able to open a process definition from a shortcut in a task pane, but otherwise the user does not need to be able to browse to it in the Process Definition Library.

Data Diagrams Library

The following permissions can be set for files in the Data Diagrams Library:

Option	Description	
Access	Select one of the following:	
	 No Access: The user or role cannot access the folder or file. 	
	Read Only: The user or role has read-only access to the folder or file.	
	 Read/Write: The user or role has read/write access to the folder or file. 	
If the item is a file, the user can save changes to the file. If the item is a for the user can also save new files to the folder, create sub-folders, and del and rename files and folders.		

Option	Description	
Show in Explorer	Select this check box if you want the file to display in the Explorer task pane and other "Explorer views" of the file library (such as Axiom Explorer, libraries displayed on the ribbon menu, and libraries displayed when saving files). This check box becomes selected by default when you assign an access level of Read Only or higher.	
	If this check box is cleared, and the user has Read Only access or higher, then the file does not display in Explorer views but the user can still open the file if the user has access to a feature that indirectly opens the file. This includes features such as custom drilling, GetDocument functions, and file shortcuts in task panes and ribbon tabs. The idea is that the user never needs to directly open the file from a folder structure, but the user needs access to the file in order to use these other features.	
	If the user's access level is No Access, then this setting is ignored.	
	For example, you might clear this check box if a user needs to be able to open a data diagram from a shortcut in a task pane, but otherwise the user does not need to be able to browse to it in the Data Diagrams Library.	

▶ File Groups

The following permissions can be set for certain files and folders in file groups. Each file group is listed separately in this section, with sub-folders for Templates, Drivers, Utilities, and Process Definitions.

NOTE: Permissions cannot be set at the file group level and inherited by the folders. Each folder must be configured separately.

Option	Description	
Access	Select one of the following:	
	Hidden: The user or role cannot access the folder or file.	
 Read Only: The user or role has read-only access to the folder or file. 		
	Users with read-only access to files can open and refresh those files, but cannot save changes. If read access is set at the folder level, users cannot save new files to that folder.	
	 Read/Write: The user or role has read/write access to the folder or file. 	
	If the item is a file, the user can save changes to the file. If the item is a folder, the user can also save new files to the folder, create sub-folders, and delete and rename files and folders.	

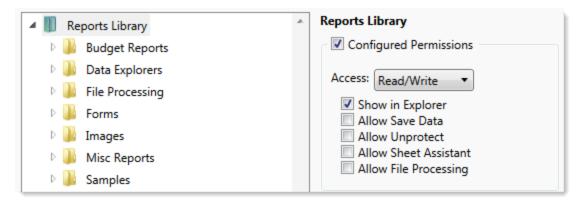
Option	Description	
Show in Explorer	Select this check box if you want the file to display in the Explorer task pane and other "Explorer views" of the file library (such as Axiom Explorer, libraries displayed on the ribbon menu, and libraries displayed when saving files). This check box becomes selected by default when you assign an access level of Read Only or higher.	
	If this check box is cleared, and the user has Read Only access or higher, then the file does not display in Explorer views but the user can still open the file if the user has access to a feature that indirectly opens the file. This includes features such as custom drilling, GetDocument functions, and file shortcuts in task panes and ribbon tabs. The idea is that the user never needs to directly open the file from a folder structure, but the user needs access to the file in order to use these other features.	
	If the user's access level is No Access, then this setting is ignored.	
	For example, you might clear this check box if a user needs to be able to open the file from a shortcut in a task pane, but otherwise the user does not need to be able to browse to it in the Explorer task pane.	
Allow Save Data	Select this check box if you want the user or role to be able to save data to the database for the folder or file. If a file is set up to use Save Type 1, 3, or 4, the user will be able to save data to the database.	
	If this check box is not selected, then the user cannot save data to the database from the report.	
	NOTES:	
	 If a user has Read Only access and Allow Save Data, then the user will be able to save data to the database but not save changes to the file. Note that users with this combination of rights can save data from the file at any time, regardless of whether the file is locked to another user. 	
	 This permission is ignored for template files and does not apply to process definitions. Save-to-database processes do not run within file group templates. 	

Dption Description	
Allow Unprotect	Select this check box if you want the user or role to be able to remove workbook and/or worksheet protection for this folder or file.
	Users with this permission can use the Advanced > Protect options on the ribbon to remove workbook or worksheet protection from Axiom files.
	IMPORTANT: If you enable this permission at the folder level, then the user will be able to unprotect any file that they save to the folder (assuming that the user has read/write access to the folder).
	NOTES:
	 This setting is ignored for users with the Remove Protection permission on the Permissions tab; those users can remove protection for any file.
	 This setting does not apply to process definitions.
Allow Sheet Assistant	Select this check box if you want the user or role to see the Sheet Assistant. Generally, you should only expose the Sheet Assistant if the user is expected to edit file settings, including Axiom query settings.
	Enabling this permission also has the following impacts:
	 The user has access to the Control Sheet. If the Control Sheet is hidden in the document, the user can make it visible by double-clicking any field name in the Sheet Assistant.
	 If the user has read / write permission and the Sheet Assistant permission, then the user can enable forms for the file and can see the Form Assistant and Form Control Sheet.
	 The Drilling Control Sheet, if present in the file, is not hidden if the user has the Sheet Assistant permission.
	• The Data Source Assistant is also available if the Sheet Assistant is available.
	If this check box is not selected, then the user cannot see the Sheet Assistant or the other related items as described above.
	NOTE: This setting does not apply to process definitions. Also, control sheets are not hidden in template files.
Allow File Processing	Select this check box if you want the user or role to be able to perform file processing on the file. If selected, then the user has access to file processing features, including the File Processing button on the menu and the File Processing task pane. The related control sheets will also be visible to the user.
	If this check box is not selected, then the user cannot perform file processing actions and cannot see the related menu items, task panes, or control sheets.
	NOTE: This setting does not apply to process definitions.

File permission examples

The following examples use the Reports Library, but the concept of folder inheritance applies to all files on the Files tab.

If a user has read/write access to the Reports Library, that user can access and save files anywhere in the library, unless a different level of access is explicitly set for a sub-folder or a file. For example:

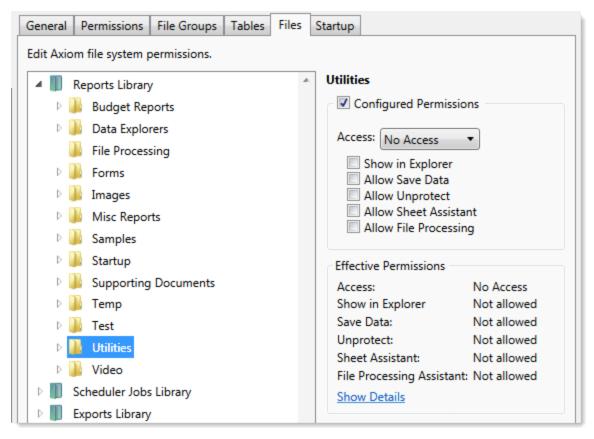


Sub-folders and files inherit the rights defined for the parent folder, unless permissions are explicitly set for the sub-folder or file. When you select a sub-folder or file in the folder tree, you can tell if it is inheriting permissions by whether the **Configured permission** check box is selected. If this check box is not selected, then the folder or file is inheriting permissions, and you can view the inherited permissions in the **Effective Permissions** section.

General Permissions File Groups Tables	s Files Startup
Edit Axiom file system permissions.	
🔺 🏢 Reports Library	Budget Reports
🖻 🁪 Budget Reports	Configured Permissions
🖻 鷆 🛛 Data Explorers	Access: No Access 👻
File Processing	
Forms	Show in Explorer Allow Save Data
🛛 🕼 Images 🔅 🗌 Allow Unprotect	
Misc Reports	Allow Sheet Assistant
🖻 퉬 Samples	Allow File Processing
🖻 鷆 Startup	Effective Permissions
Supporting Documents	Access: Read Only
🛛 🐌 Temp	Show in Explorer Allowed
🛛 🕒 Test	Save Data: Not allowed
Utilities	Unprotect: Not allowed
Video Video Sheet Assistant: Not allowe File Processing Assistant: Not allowe	
Scheduler Jobs Library	Show Details
Exports Library	

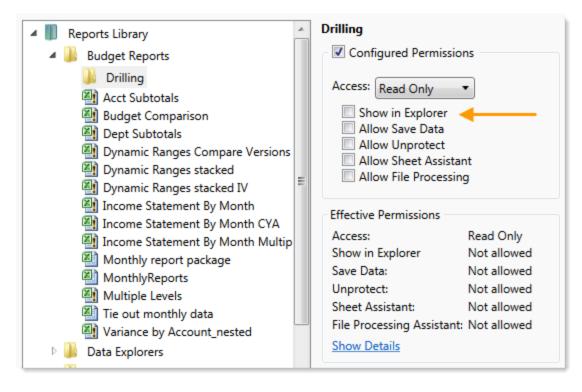
NOTE: The effective permissions also take into account role inheritance and administrator rights (if applicable). Therefore, the sub-folder or file might show a different level of permissions than its parent folder, if it is inheriting from a role.

If rights are set at the library level, but you want to set a different level of rights for a specific folder or file, select **Configured permission** for that folder or file and define the desired level of rights. In the following example, the user has read/write access to the Reports Library, but no access to the **Utilities** sub-folder.



Note that if the user was assigned to a role that had access to the Utilities folder, then the user would be granted that level of access even though the folder is explicitly hidden for the user. Users are granted the highest level of file permissions allowed by their user rights and assigned roles. You cannot override role inheritance for report file access.

It is also possible to grant a user access to a file or folder, but hide that file/folder in the user's Explorer task pane and other "Explorer views." In the following example, the **Drilling** sub-folder contains drill target files. The user needs read-only access to the files in order to perform the drill, but otherwise the user never needs to open the files directly or see the files in their Reports Library. By clearing the **Show in Explorer** option, this folder and its files will not display to the user.



Assigning startup files (Startup tab)

On the **Startup** tab of the **Security Management** dialog, you can specify which files to open automatically when a user logs into the system. You can also configure certain startup options.

Startup files are assigned using the following categories:

- Home Page: You can assign an alternate home page for a user or role.
- Task Panes: You can assign custom task panes to open on startup.
- Ribbon Tabs: You can assign custom ribbon tabs to open on startup.
- Other Documents: You can assign additional reports (regular or form-enabled) to open on startup.

NOTE: Startup files are stored by document ID. If you subsequently change the name of a startup file or move it to a different location, the startup configuration will still work. If the file is deleted, the startup item will simply be ignored; it will not cause an error on startup.

Startup files only apply when using the Excel Client or the Windows Client, with one exception: if the assigned home page is an Axiom form, that page will also display as the user's home page when accessing forms in the Web Client.

	missions File G			Startup					
Configure do	cuments and tas	k panes to o	open on log	in.					
Home Page:									
document://	Axiom\Reports	Library\Star	tup\Corpor	ate Finance	e Home.xlsx				×
ask Panes:						4	4	٠	×
document://	Axiom\Task Pan	es Library\f	Report Tools	.axl					
libbon Tabs:						4		Ŷ	\times
	Axiom\Ribbon 1	Tabs Library	\QA Diagno	stics Ribbo	on.axl	÷	4	1	×
	Axiom\Ribbon 1	「abs Library	∖QA Diagno	stics Ribbo	on.axl	+		1	
	,Axiom\Ribbon 1	「abs Library	\QA Diagno	stics Ribbo	on.axl	+	*	Ŷ	
document://		「abs Library	\QA Diagno	stics Ribbo	on.axl	 + +	*	•	
document://		Fabs Library	\QA Diagno	stics Ribbo	on.axl		*	•	
document://		Tabs Library	\QA Diagno	stics Ribbo	on.axl		*	•	
		Tabs Library	\QA Diagno	stics Ribbo	on.axl		*	•	
document://		labs Library	\QA Diagno	stics Ribbo	on.axl		*	\$ \$	

Example Startup tab

Assigning home pages

You can optionally assign home pages on a user or role basis. If a home page is specified in Security, this file will be used instead of the default files in the Startup folders. You can use any Axiom report (including web reports and Axiom forms), or any normal Excel file stored in the Reports Library.

You can assign each user or role a "global" home page to be used in all clients. You can also override this assignment to show a different home page in the Desktop Client (Excel Client or Windows Client).

The home page is always opened as read-only. The user does not need to be granted permissions to the file in order to open it on startup.

To assign a home page to a user or role:

1. On the **Startup** tab of the **Security Management** dialog, click the [...] button to the right of either of the following fields:

Item	Description
Home Page	This "global" home page is used in all clients, unless a Desktop Client Home Page is also specified.
	If you want this home page to display in the Web Client, the selected file must be web-enabled (either an Axiom form or a web report). If the file is not web-enabled, then the assignment will be ignored for purposes of the Web Client.
Desktop Client Home Page	This home page is used in the Desktop Client only (Windows Client or Excel Client), overriding the Home Page assignment.

The Shortcut Properties dialog opens so that you can select a file.

- 2. To specify the file, click the [...] button to the right of the **Shortcut Target** box. In the **Choose Document** dialog, select the desired file from the Reports Library, then click **OK**.
- 3. Once the file has been selected, specify any of the following optional Shortcut Parameters:

Item	Description
Axiom Tab Name	An alternate name to display on the file tab. By default, the tab name is "Home".
Quick Filter	A Quick Filter to apply to the file. The Quick Filter must be a valid filter criteria statement. Once the file is opened, users can clear the filter using the Quick Filter option on the ribbon.
	NOTE: Queries in the target file must be configured to refresh on open, in order for the filter to be applied to the data when the file is opened.
	This option does not apply to web reports.
Non-closeable	Specifies whether the user can close the file once it has been opened.
	By default, this is not enabled, which means the file is closeable. If a user closes the home page, they can reopen it using the Show Home button on the default Axiom ribbon tab.
	You might enable this option if you have defined a custom ribbon tab for end users that does not contain the Show Home button. This ensures that users will always have access to the home page by preventing them from closing it.
View As Form	Select this option to open the report as an Axiom form. This option only applies if the report is form-enabled.
	 Specifies whether the user can close the file once it has been opened. By default, this is not enabled, which means the file is closeable. If a user closes the home page, they can reopen it using the Show Home button of the default Axiom ribbon tab. You might enable this option if you have defined a custom ribbon tab for end users that does not contain the Show Home button. This ensures that users will always have access to the home page by preventing them from closing it. Select this option to open the report as an Axiom form. This option only

4. Click OK.

The selected file displays in the **Home Page** box.

You can change the home page assignment at any time, or remove the assignment by clicking the delete X button.

► Home page priority order

When a user logs into an Axiom Capital Tracking client, their home page is determined using the following priority order. If the first item on the list is defined, then that file is used, otherwise the next item on the list is used, and so on.

Desktop Client (Excel and Windows)

- 1. Security-assigned home page at the user level
- 2. Security-assigned home page for a role the user belongs to (excluding the Everyone role)

NOTE: If a user belongs to multiple roles, and more than one role has an assigned home page, the home page of the "first" role is used (determined alphabetically by role name).

3. Security-assigned home page for the Everyone role

Axiom Capital Tracking first cycles through items 1-3 looking for a **Desktop Client Home Page** assignment. If no assignment is found, Axiom Capital Tracking cycles through items 1-3 again, this time looking for a **Home Page** assignment. If no security home page is found, Axiom Capital Tracking continues to the next item.

- 4. Default home page in the Axiom System directory
 - In the Windows Client, Axiom Capital Tracking checks \Startup\Home\Windows Client first, then moves on to \Startup\Home.
 - In the Desktop Client, Axiom Capital Tracking checks \Startup\Home\Excel Client first, then moves on to \Startup\Home.

If no valid home pages are found for the Desktop Client, a blank spreadsheet is used.

Web Client

1. Product-assigned home page

This item only applies in systems with installed products. If a product area in the Web Client has a designated home page, that home page takes precedence over all other home page assignments. When the user logs into the Web Client, they see the home page for their default product area.

- 2. Security-assigned home page at the user level
- 3. Security-assigned home page for a role the user belongs to (excluding the Everyone role)

NOTE: If a user belongs to multiple roles, and more than one role has an assigned home page, the home page of the "first" role is used (determined alphabetically by role name).

4. Security-assigned home page for the Everyone role

For the Web Client, only the **Home Page** assignment is considered for items 1-3. The **Desktop Client Home Page** is ignored. The Home Page assignment must be a web-enabled file in order to be used as the Web Client home page. If no valid assignment is present in Security, Axiom Capital Tracking continues to the next item.

5. Default home page in the Axiom System directory

In the Web Client, Axiom Capital Tracking checks \Startup\Home\Web Client for a webenabled file, and uses that file as the home page if present. The \Startup\Home directory is ignored in this case, even if the file in that directory is web-enabled. If no valid home page is present in the Axiom System directory, Axiom Capital Tracking continues to the next item.

6. Default Web Client home page provided by Axiom Software

This page displays the user's notifications and web favorites. This built-in page is only used as the home page if no other home page assignment is found.

Assigning startup task panes

You can assign one or more custom task panes to display automatically when a user logs into the system. Typically, these settings are defined at the role level rather than at the user level—either on the Everyone role to display for all users, or on your organization's defined roles.

Users do not need to have file permissions to access the task panes that are designated to open on startup. Because of this, in most cases you should use the **Non-Closeable** option to specify that the task pane cannot be closed. This will ensure that the task pane is always available to the user. Otherwise, the user could close the task pane and then have no way to open it again, because they do not have access to the file itself.

Users inherit any task panes defined for roles that they are assigned to, in addition to their own assigned task panes. Task panes are opened in the following order:

- Task panes defined for the Everyone role, in the order specified on the Everyone role
- Task panes defined for roles (multiple roles sorted in alphabetical order), in the order specified for the role
- Task panes defined for the user, in the order specified for the user

If a single task pane is listed in more than one place, it is only opened once, the first time it is listed.

NOTES:

- The startup task pane settings do not control the display of system-controlled task panes such as the Sheet Assistant or File Processing. These task panes display dynamically when they are relevant to the current context, if the user has the appropriate rights.
- By default, the Everyone role is configured to open the following built-in task panes on startup: Explorer and Process. These task panes are not system-controlled; if desired you can change their security settings or remove the task panes entirely. For more information, see the discussion on built-in task panes and ribbon tabs in the *System Administration Guide*.

To assign startup task panes to a user or role:

 On the Startup tab of the Security Management dialog, click the plus + button at the top of the Task Panes box.

The Shortcut Properties dialog opens.

- 2. To specify the task pane, click the ... button to the right of the **Shortcut Target** box. In the **Choose Document** dialog, select the desired task pane from the Task Panes Library and then click **OK**.
- 3. Once the task pane has been selected, specify any of the following optional Shortcut Parameters:

Item	Description
Axiom Tab Name	Define an alternate tab name for the task pane (by default, the tab name is the file name).
Non-closeable	Select this option to prevent the user from closing the task pane.
	This option should be selected for startup task panes if users do not otherwise have access to the task pane. Most end users are not granted access to the Task Panes Library and therefore they only see task panes that are configured to open on startup. In this case, if the user closes the task pane, they will have no way to reopen it (other than to exit the system and then log in again). Preventing users from closing the task pane ensures that it will always be available.

4. Click OK. The selected file displays in the Task Panes box.

You can repeat this process for as many custom task panes that you want to assign to the user or role.

Once one or more task panes have been assigned, you can modify the assignments as follows:

- To adjust the order of multiple assigned task panes, select the task pane that you want to move and then use the arrow buttons to move it up or down.
- To delete an assigned task pane, select the task pane in the list and then click the Delete X button.
- To edit the shortcut parameters of an assigned task pane, double-click the task pane in the list to reopen the **Shortcut Properties** dialog.

Assigning startup ribbon tabs

You can assign one or more custom ribbon tabs to display automatically when a user logs into the system. Typically, these settings are defined at the role level rather than at the user level—either on the Everyone role to display for all users, or on your organization's defined roles.

Keep in mind that just because a ribbon tab is opened at startup does not necessarily mean it will display to the user. You can configure certain ribbon tab options that further control the display. For example, you can specify that a particular ribbon tab only displays if the user is an administrator, or if the current file is a plan file. These options make it easier to configure a ribbon tab for the Everyone role, yet still dynamically control the display so that only the users who need the ribbon tab can see it.

Users do not need to have file permissions to access the ribbon tabs that are designated to open on startup. Startup is the only time that ribbon tabs can be opened in the ribbon, so in general there is no reason to give end users file permissions to these files except for the small handful of users who need to create and edit the ribbon tabs.

Users inherit any ribbon tabs defined for roles that they are assigned to, in addition to their own assigned ribbon tabs. Ribbon tabs are opened in the following order:

- Ribbon tabs defined for the Everyone role, in the order specified on the Everyone role
- Ribbon tabs defined for roles (multiple roles sorted in alphabetical order), in the order specified for the role
- Ribbon tabs defined for the user, in the order specified for the user

Custom ribbon tabs display before (to the left of) any Excel ribbon tabs. In the case of the Windows Client, custom ribbon tabs display before the Home tab.

If a single ribbon tab is listed multiple times, it is only opened once, the first time it is listed.

NOTE: By default, the Everyone role is configured to display two built-in ribbon tabs: Axiom and Axiom Designer. These ribbon tabs are not system-controlled; if desired you can change the security settings for these tabs, customize the tab contents, or remove the tabs entirely. For more information, see the discussion on built-in task panes and ribbon tabs in the *System Administration Guide*.

To assign startup ribbon tabs to a user or role:

1. On the Startup tab of the Security Management dialog, click the plus + button at the top of the Ribbon Tabs box.

The Shortcut Properties dialog opens.

- 2. To specify the ribbon tab, click the ... button to the right of the **Shortcut Target** box. In the **Choose Document** dialog, select the desired ribbon tab from the Ribbon Tabs Library and then click **OK**.
- 3. Once the ribbon tab has been selected, specify any of the following optional Shortcut Parameters:

ltem	Description
Axiom Tab Name	Optional. Define an alternate tab name for the ribbon tab (by default, the tab name is the file name).
Requires Admin	Select this check box if the ribbon tab should only be visible if the user is an administrator.
	In general, this option is only used if you are assigning a ribbon tab for the Everyone role, but you want to limit the display to administrators.
Requires Sheet Assistant	Select this check box if the ribbon tab should only be visible if the user has Sheet Assistant permission to the current file.
	This option can be used to dynamically display a ribbon tab that contains tools appropriate for file designers. Keep in mind that the ribbon tab will dynamically show and hide as the user changes the current file (assuming the user only has Sheet Assistant permission to certain files).
Visible for doc type	Optional. Select a document type if the ribbon tab should only be visible when the current file is a certain type of file. You can specify Plan File , Template , or Report . By default, this option is set to All , which means the ribbon tab displays for all file types (assuming it is otherwise eligible to display).
	If you specify a document type, keep in mind that the ribbon tab will dynamically show and hide as the user switches between different documents. This may be confusing to the user if the ribbon tab is not very obviously designed for a particular document type.

4. Click OK. The selected file displays in the Ribbon Tabs box.

You can repeat this process for as many custom ribbon tabs that you want to assign to the user or role.

Once one or more ribbon tabs have been assigned, you can modify the assignments as follows:

- To adjust the order of multiple assigned ribbon tabs, select the ribbon tab that you want to move and then use the arrow buttons to move it up or down.
- To delete an assigned ribbon tab, select the ribbon tab in the list and then click the Delete X button.
- To edit the shortcut parameters of an assigned ribbon tab, double-click the ribbon tab in the list to reopen the **Shortcut Properties** dialog.

Assigning other startup documents

You can assign other documents to open automatically when a user logs into the Axiom Capital Tracking Desktop Client. These documents are opened in addition to the home file. You can select any Axiom report (including web reports and Axiom forms) or any normal Excel file stored in the Reports Library.

There is no limit on the number of files that can be opened at startup, however, many files or large files may slow performance and cause delays starting Axiom Capital Tracking.

If a document is assigned to open on startup, then it will always open on startup as read-only, regardless of the user's file permissions for that document. The user does not need to have permission to access the file otherwise.

Users inherit any documents defined for roles that they are assigned to, in addition to their own assigned documents. Documents are opened in the following order:

- Documents defined for the Everyone role, in the order specified on the Everyone role
- Documents defined for roles (multiple roles sorted in alphabetical order), in the order specified for the role
- Documents defined for the user, in the order specified for the user

If a single document is listed in more than one place, it is only opened once, the first time it is listed. Note that the home page is always the first document opened.

To assign other startup documents to a user or role:

1. On the Startup tab of the Security Management dialog, click the plus + button at the top of the Other Documents box.

The Shortcut Properties dialog opens.

- 2. To specify the document, click the ... button to the right of the **Shortcut Target** box. In the **Choose Document** dialog, select the desired file from the Task Panes Library and then click **OK**.
- 3. Once the document has been selected, specify any of the following optional Shortcut Parameters:

Item	Description
Axiom Tab Name	An alternate name to display on the file tab. By default, the tab name is the file name.
	If the file is an Axiom form or a web report, then this tab name is only used when launching the Windows Client, and causes the file to open within the application instead of the browser.

Item	Description
Quick Filter	A Quick Filter to apply to the file. The Quick Filter must be a valid filter criteria statement. Once the file is opened, users can clear the filter using the Quick Filter option on the ribbon.
	NOTE: The target file must be refreshed in order for the filter to be applied to the data. One or both of the following settings should be enabled in the file:
	 Refresh all Axiom functions on open (if the file uses functions to return data instead of an Axiom query)
	Refresh data on file open (for the applicable Axiom queries)
	This option only applies to Axiom spreadsheet reports and Axiom forms.
Non-closeable	Specifies whether the user can close the file once it has been opened.
	By default, this is not enabled, which means the file is closeable. You may want to enable this option if users do not otherwise have access to the file. In this case, if the user closes the file, they will have no way to reopen it (other than to exit the system and then log in again). Preventing users from closing the file ensures that it will always be available.
	You would only do this if the file is something that users need to see throughout their session. If the file is simply informational and users don't need to see it again once they have viewed it, then you probably want to let users close the file.
View As Form	Select this option to open the report as an Axiom form. This option only applies if the report is form-enabled.

4. Click OK. The selected file displays in the Other Documents box.

You can repeat this process for as many additional documents that you want to assign to the user or role.

Once one or more documents have been assigned, you can modify the assignments as follows:

- To adjust the order of multiple assigned documents, select the document that you want to move and then use the arrow buttons to move it up or down.
- To delete an assigned document, select the document in the list and then click the Delete X button.
- To edit the shortcut parameters of an assigned document, double-click the document in the list to reopen the **Shortcut Properties** dialog.

NOTE: When a user launches the Excel Client, any web-enabled startup documents other than the Home file will be opened in the browser instead of within the Excel Client. In the Windows Client, if you define an **Axiom Tab Name** for the web-enabled document, it will open within the application instead within the browser.

Assigning startup options

You can configure startup options that impact how Axiom Capital Tracking displays when a user logs in. These options are listed at the bottom of the **Startup** tab of the **Security Management** dialog, underneath the assigned startup files. You can set these startup options at the user level or at the role level.

Currently there is only one startup option that can be set:

• Show Formula Bar At Start

If this option is enabled, then the formula bar automatically shows when a user logs into the Axiom Capital Tracking Excel Client or the Windows Client. If this option is disabled, then the formula bar is hidden.

Users can still toggle the formula bar shown or hidden using the **Formula Bar** check box on the **Axiom** ribbon tab. This startup option simply determines the initial state of the formula bar when the user logs in; it does not prevent the user from changing that state later.

By default, all users are set to show the formula bar at start, via the Everyone role. If you want to change this behavior, you have several options:

- You can override the behavior for specific users by clicking the **Override** check box and then clearing the check box for **Show Formula Bar At Start**. This means that the formula bar will be hidden at start for this user.
- You can clear the **Show Formula Bar At Start** check box for the Everyone role, and then set the option as desired for specific users and roles.

NOTE: It is not possible to leave the option enabled for the Everyone role and then override it by role. If you want some roles to show the formula bar and others to hide it, then you must disable the option on the Everyone role and then enable or disable it as appropriate for your other roles.

This setting is always enabled for admin users and cannot be disabled. However, for admin users only, Axiom Capital Tracking will remember the last state of the formula bar and apply that on startup, disregarding this setting.

Security Subsystems

Security subsystems allow you to define groups of users to be managed as a distinct "subset" of users within the system. Using subsystems, you can:

- Define a group of users to belong to the subsystem and be limited to a certain maximum level of permissions. When you create a subsystem, you are essentially drawing a permissions boundary that users who belong to the subsystem cannot cross.
- Assign one or more subsystem administrators who can manage security for the users that belong to the subsystem. This allows you to give certain users the right to manage other users' permissions, without needing to grant them full administrator rights or even full security administration rights.

Subsystems are *not* an alternative to roles. Roles grant permissions as a group; roles cannot be used to deny permissions or to grant user management rights. Subsystems are intended for situations where you need to create independently-managed user groups that work within the same system but only need access to specific defined areas of that system. Roles can then be used to grant permissions within the limits of the subsystem.

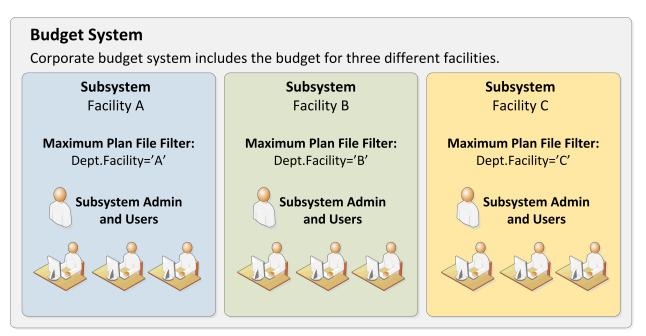
NOTE: Subsystems are optional in systems without installed products. Subsystem features are only available if you have enabled them using the system configuration settings.

About subsystems

Subsystems are used to create distinct groups of users who need to be restricted to a certain maximum level of access. When you create a subsystem, you define:

- The maximum permissions for the subsystem. Using the standard security permission settings, you specify the maximum level of permissions that any user who belongs to this subsystem can have.
- The users who belong to the subsystem. The permissions for these users cannot exceed the subsystem maximum permissions. Roles can also optionally belong to a subsystem, and will be limited to the subsystem maximum permissions.
- The subsystem administrators. Subsystem administrators can access Axiom Capital Tracking security for purposes of managing users and roles that belong to the subsystem.

For example, imagine that your organization has three different facilities, and you budget for all of these facilities within the same Axiom Capital Tracking system. Each facility has a set of users, and you want to limit those users to a specific set of plan files and reports. You also want to allow the finance manager of each facility to control the user rights for their facility, but you do not want to make them full system administrators.



Example system with subsystems

You could use subsystems for this configuration as follows:

- Create a subsystem for each of the facilities. You can assign existing users to the subsystem, and/or the subsystem administrator can create users for the subsystem.
- Within each subsystem, specify the maximum level of user rights for that facility. This would include plan file access filters to restrict the set of plan files in a file group, and folder permissions for the Reports Library (for example, each facility might have their own folder in the Reports Library, and you would grant each subsystem permission to only the appropriate folder).
- Within each subsystem, assign the facility's finance manager as the subsystem administrator. That user could then manage the rights for each user in the subsystem, including granting the users rights to the necessary plan files and reports (either individually or by using roles). The users can have a lower level of rights than what is allowed by the subsystem, but they cannot have a higher level.

Each user can belong to one or more subsystems. If a user belongs to multiple subsystems, the limits for each subsystem will be applied independently (in other words, using OR to concatenate the restrictions where applicable instead of AND).

In systems with installed products, subsystems are used to control access to specific products. These subsystems are product-controlled and delivered with the product. For example, you may have subsystems for Capital Planning and Budget Planning. You can assign users to subsystems based on the specific products they should be able to access.

About subsystem administrators

When a user is assigned as a subsystem administrator, that user can access security for the purposes of managing users and roles that belong to the subsystem.

Subsystem administrators are not administrator-level users. The behavior is similar to being granted the **Administer Security** permission, except that the subsystem administrator can only work with users and roles within the subsystem.

Subsystem administrators can do the following:

- Create, edit, and delete users and roles within the subsystem.
- Assign roles to users in the subsystem. The users can be assigned to subsystem-specific roles or to "global" roles (roles that do not belong to any subsystem).
- Remove locks held by users in the subsystem. This applies to document and table locks, and save data locks, where the subsystem administrator has some level of access to the locked item.
- Use Log in as selected user to test the permissions of any user in the subsystem by logging in as that user. (Note that if a system administrator is assigned to the subsystem, the subsystem administrator cannot log in as that user.)

Subsystem administrators cannot edit the subsystem settings, except to assign users and roles to the subsystem. It is assumed that the subsystem is created by a system administrator (or delivered as part of an installed product), and then the subsystem administrator simply manages the users and roles within that predefined framework.

The subsystem administrator can be any user. The subsystem administrator may belong to the subsystem as a user if desired, but that is not a requirement. If the subsystem administrator is also a member of the subsystem, then the subsystem administrator can edit his or her own user permissions, but overall those permissions are restricted by the limits of the subsystem.

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Users O Roles O Subsystems Sort By: Last Name		4 user(s), 0 admin(s)
Show: Enabled Subs <type filter="" here="" list="" to=""> acces assign e</type>	ystem admin can only s subsystem record to xisting users; subsystem cannot edit subsystem properties	+
Lee, Steve (slee) Xavier Sasparilla, Rufus (rxavier) Subsystem admin can only see and edit users who belong to the subsystem * 🍇 X	Email rxavier@mycompany.com License Type Standard Authentication Axiom Prompt Login rxavier Password ************************************	/stems
Log in as selected user	Apply	OK Cancel

Example Security dialog for a subsystem administrator

About subsystems and roles

Subsystems can be used in conjunction with roles. You can assign a user to a subsystem, and then assign the user to one or more roles to grant security permissions. These permissions are then limited by the subsystem boundaries.

There are two ways that you can use roles with subsystems:

- You can assign subsystem users to "global" roles, meaning standard roles that don't belong to a subsystem. These roles can contain users that belong to any subsystem. The role permissions are inherited "as is" by the user and then the user's effective permissions are restricted by their assigned subsystem.
- You can assign a role to a subsystem, and then assign users in the subsystem to the role. In this case, only users who also belong to the subsystem can belong to the role. Also, the role permissions are restricted by the assigned subsystem before the user inherits the permissions.

Subsystem-specific roles are recommended if users may belong to multiple subsystems, due to the small but crucial difference in how role inheritance and subsystem restrictions interact. Also, subsystem administrators can create and edit subsystem-specific roles, which provides the subsystem administrator with greater control over the use of roles with their subsystem users. When using global roles, subsystem administrators can only assign users to the role, they cannot edit the role or see the role's permissions.

Role inheritance and subsystems

If each user only belongs to one subsystem, then there is no difference in the effective permissions when users inherit permissions from global roles or from subsystem-specific roles. However, if a user can belong to multiple subsystems, then the effective permissions can vary depending on which type of role is used.

To illustrate this difference, consider the following plan file filter settings for a file group:

User configured permission:	No Access
Role configured permission:	All Plan Files
Subsystem maximum permission:	DEPT.Facility=5

In this configuration, it doesn't matter whether the role is global or whether it belongs to the subsystem. In both cases, the user will ultimately be restricted to plan files that are assigned to Facility 5. If the role is global, then the subsystem restriction of Facility 5 will be applied to the user after the role inheritance. If the role belongs to a subsystem, then the Facility 5 restriction will be applied to the role before the permissions are inherited. Either way, the end result of the effective permission is the same.

Now consider what can happen if the role is global and the user belongs to two subsystems instead of just one:

User configured permission:	No Access
Role configured permission:	All Plan Files
Subsystem 1 maximum permission:	DEPT.Facility=5
Subsystem 2 maximum permission:	All Plan Files

In this configuration, the user inherits the permission from the global role before the subsystem restrictions are applied to the user. So the user's starting permission is All Plan Files. Because the user's multiple subsystem restrictions are combined using OR, the ultimate subsystem restriction is Dept.Facility=5 OR All Plan Files (which effectively means no restriction—the combined subsystem maximum permission allows access to all plan files). Together with the inherited role permission, this means the user has access to all plan files.

The organization may have intended the user to have access to all plan files. The user belongs to Subsystem 2 and that subsystem allows access to all plan files, so it is a valid result if the user is assigned to a role that grants access to all plan files. However, a potential issue may arise if the role assignment was made by the Subsystem 1 administrator. This subsystem administrator may not know that the user also belongs to Subsystem 2 and/or may not know that Subsystem 2 has a maximum permission of All Plan Files. The Subsystem 1 administrator can only consider the impact of his or her subsystem's restrictions, which would limit the user to plan files from Facility 5. The granting of all plan files via the Subsystem 2 maximum permission may be unintentional.

So if subsystem administrators are managing role assignments and users can belong to multiple subsystems, the only way to ensure that permissions are limited by each respective subsystem is to use subsystem-specific roles instead of global roles. For example, consider the following configuration where the user belongs to multiple subsystems and is assigned to subsystem-specific roles:

User configured permission:	No Access
Role configured permission (Subsystem 1):	All Plan Files
Role configured permission (Subsystem 2):	No Access
Subsystem 1 maximum permission:	DEPT.Facility=5
Subsystem 2 maximum permission:	All Plan Files

Now the role filters are limited by the subsystem restrictions *before* the user inherits permissions from the roles. This gets resolved as follows:

- Subsystem 1 role permission of All Plan Files is restricted by the Subsystem 1 maximum permission of Dept.Facility=5. The user can access only those plan files that belong to Facility 5.
- Subsystem 2 role permission of No Access needs no further resolution—the user is not granted access to any plan files via this subsystem.
- So even though the user's combined subsystem restriction is the same as in the previous example, this is no longer an issue because the role permissions are restricted by their respective subsystems before being inherited by the user. In this case this means the user is only granted the plan file access from the Subsystem 1 role, meaning the user only has access to plan files for Facility 5.

Now imagine the same permissions except that the role configured permission for Subsystem 2 is Dept.VP='Smith' instead of No Access. Now the user's effective permission is as follows:

(DEPT.VP='Smith') OR (DEPT.Facility=5)

This means the user can access any plan files from Facility 5, and any plan files where the assigned VP is Smith.

Managing subsystems

Using the **Security Management** dialog, you can create new subsystems, edit existing subsystems, and delete subsystems. To access this dialog:

• On the Axiom tab, in the Administration group, click Manage > Security > Security Manager.

NOTE: In systems with installed products, this feature may be located on the Admin tab. In the System Management group, click Security > Security Manager.

To work with subsystems, select Subsystems in the top left-hand corner of the dialog.

NOTE: Only administrators and users with the **Administer Security** permission can create, edit, and delete subsystems. Subsystem administrators are limited to viewing the **General** tab of the subsystem only, for purposes of assigning existing users to the subsystem.

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O Users O Roles O Subsystems Subsystem settings do n grant right	Subsystem: Budget Planning Define maximum General Permissions File Groups Tables Files Subsystem on each tables	
maxi New view to assig manage subsystems user in the user or role level.	Edit general information. Subsystem Details Name Budget Planning	+
Budget Planning Capital Planning	Description: Add users to the subsystem Deer, Mary (mdeer) Eubanks, Fred (feubanks) Lee, Steve (slee) Xavier Sasparilla, Rufus (rxavier)	
	Subsystem-Specific Roles: Budget Managers CSubsystem Admins	
Add and delete subsystems	Assign a subsystem administrator	• ×
	Арріу ОК	Cancel

Security dialog with subsystems enabled

To save changes, click Apply (or OK if you are finished editing security settings).

Creating subsystems

You can create a new blank subsystem, or you can clone the settings of an existing subsystem. If you clone a subsystem, all of that subsystem's settings are copied to the new subsystem, *except* for assigned users.

To create a subsystem, click one of the following buttons located underneath the subsystem list:

- To create a new blank subsystem, click Create subsystem +.
- To clone an existing subsystem, select that subsystem in the list and then click Clone subsystem
 44.

The new subsystem is added to the list. You can define the settings for the new subsystem as desired, and you can assign users and roles to the subsystem. You can also assign a user as a subsystem administrator, to manage the users within the subsystem.

For more information on completing subsystem settings, see:

- Defining subsystem properties (General tab)
- Defining maximum permissions for subsystems

Editing subsystems

To edit a subsystem, select a subsystem from the **Subsystems** list, then make any changes to that subsystem. Changes to subsystem settings take effect when the changes are saved.

Deleting subsystems

To delete a subsystem, select a subsystem from the **Subsystems** list, then click **Delete subsystem** \times . You are prompted to confirm that you want to delete the subsystem.

A subsystem cannot be deleted if users are assigned to it.

Defining subsystem properties (General tab)

The following settings are available for subsystems on the General tab.

Subsystem Details

Each subsystem has the following general properties:

ltem	Description	
Name	The name of the subsystem.	
Description	A description of the subsystem.	

Subsystem-Specific Roles

Multiple roles can be assigned to a subsystem. If the subsystem already has assigned roles, those roles are displayed here.

It is not possible to assign roles from the subsystem record. Roles can be assigned to subsystems from the role record, using the **Subsystem** box. See Managing subsystem roles.

Assigned Users

Multiple users can be assigned to a subsystem. If the subsystem already has assigned users, those users are displayed here.

Subsystem assignments can be made when editing either the user or the subsystem. See Managing subsystem users.

Subsystem Admins

One or more users can be assigned as a subsystem administrator. Only administrators and users with the **Administer Security** permission can assign or remove a subsystem administrator. Subsystem administrators do not see this section when they view the subsystem record.

 To assign a user as a subsystem administrator, click Add *. In the Assign Users dialog, you can select one or more users to add as a subsystem administrator.

Assigning a user as a subsystem administrator does not automatically add the user to the subsystem. Subsystem administrators are not required to belong to the subsystem. However, if you want the user to also belong to the subsystem, then you must separately assign the user to the subsystem.

To remove a user as a subsystem administrator, select the user in the list and then click Remove
 Xou can select and remove multiple users at once.

Subsystem administrators can access the **Security Management** dialog for the purposes of managing users for the subsystem. Subsystem administrators do not otherwise have administrator-level permissions. For more information on subsystem administration rights, see About subsystem administrators.

Defining maximum permissions for subsystems

When defining security settings for a subsystem, you are defining the maximum permission that any user who belongs to the subsystem can have. Users are not granted these permissions by the subsystem; they are restricted to having this level of permission or less. Generally this means that you must define the maximum desired settings on each tab of the dialog, or else no users in the subsystem can have access to the features controlled by that tab.

You can imagine the subsystem permissions as defining an outer boundary of user rights. Users that belong to the subsystem can be assigned to roles and can be granted individual permissions as normal. Any user permissions that fall within the subsystem boundary will be given to the user. Any user permissions that fall outside of the subsystem boundary will be ignored.

At minimum, you must define settings on the following tabs:

- File Groups tab, to specify which file groups the subsystem can access and the maximum allowed access.
- Tables tab, to specify which tables the subsystem can access and the maximum allowed access.
- Files tab, to specify which folders and files the subsystem can access and the maximum allowed access. In most cases this will include defining access permissions to reports. Optionally, you can grant access to scheduler jobs, task panes, and imports.

If users in the subsystem will not need any special permissions, then you can ignore the **Permissions** tab. Otherwise, you must define the maximum allowed access on that tab.

NOTES:

- If a user belongs to more than one subsystem, then the allowed permissions in one subsystem may exceed the permissions allowed in another subsystem. In this case the permissions "boundary" is the combination of the subsystems, where the user is granted the more permissive boundary (not restricted to the less permissive boundary). In this circumstance, you may find it useful to use subsystem-specific roles to grant permissions to users instead of "global" roles.
- If a system administrator is assigned to a subsystem, the administrator permission takes precedence over the subsystem limitation. Subsystem limitations do not apply to system administrators.

Permissions tab

Select the check boxes for the permissions that you want to be available to users in the subsystem.

For example, if you know that some users in the subsystem need to have access to Scheduler, then you must select the **Scheduled Jobs User** permission for the subsystem. The users' individual permissions and role inheritance will determine which users in the subsystem actually have the **Scheduled Jobs User** permission.

If no users in the subsystem need to have any of these permissions, then you can leave the entire tab unchecked.

NOTE: In most cases, you should *not* select the **Administer Security** permission for a subsystem. If a subsystem user is granted this permission, they will be able to manage all users and roles in the system, not just the subsystem users and roles. Subsystem administrators do not need to be granted this separate permission in order to manage the users in the subsystem.

File Groups tab

For subsystems, you can define a single permission set for each file group. This maximum permission set will be applied against all permission sets defined for the user and inherited from the user's roles. If no permission set is defined for a file group, then the subsystem does not allow access to that file group.

If you want the users in the subsystem to be able to access plan files in a particular file group, then you must create a permission set and configure it as follows:

Set the file access level to the highest level that you need to make available to users in the subsystem. Typically this means setting the access to at least Read-Only. You must also specify whether the subsystem has access to Allow Save Data, Allow Calc Method Insert, and Allow Calc Method Change. Remember that if you are using process management to manage access to plan files, then you do not need to select Allow Save Data because the plan file process will automatically elevate user permissions as necessary.

NOTE: The setting **Interacts with Process Management** is not available to subsystem permissions. There is no way to disable process interaction at the subsystem level.

• Apply the permission settings to the maximum group of plan files that you need to make available to users in the subsystem.

You must either select **All plan files** or specify a plan file filter. For example, if you specify a filter such as DEPT.Facility=5, then users in this subsystem can only access plan files for facility 5. Any user or role permission that falls outside of that filter is ignored.

If the subsystem has a plan file filter, and a user in the subsystem is assigned a plan file filter (either individually or via a role), then the subsystem filter and the user filter are concatenated using AND. This restricts the user to only accessing files that match both the user filter and the subsystem filter. For example, if the subsystem filter is DEPT.Facility=5 and the user filter is DEPT.VP='Jones', then the user can only access plan files that are assigned to VP Jones AND which belong to facility 5.

NOTE: The **Create New Records** maximum permission is enabled by default for on-demand file groups. This is set automatically on the subsystem whenever a new on-demand file group is created. Also, when you create a new subsystem, this permission is automatically set for any existing on-demand file groups. This behavior is to enable the default permissions for on-demand file groups, which are automatically set to allow creating new records via the Everyone role.

Tables tab

If you want the users in the subsystem to be able to access data in particular tables, then you must define access for the table (at either the table or table type level).

When granting access, you must define the maximum level of access needed for the subsystem. For example, if some users in the subsystem need full access to the GL table type, but other users need filtered access, then you must set the GL table type to full access. The users' individual rights and role inheritance will determine their actual level of rights within this boundary.

If a subsystem has a table filter, and a user in the subsystem is assigned a table filter (either individually or via a role), then the subsystem filter and the user filter are concatenated using AND. This restricts the user to only accessing data that matches both the user filter and the subsystem filter. For example, if the subsystem filter is DEPT.Facility=5 and the user filter is DEPT.VP='Jones', then the user can only access data for VP Jones within facility 5.

NOTE: The default maximum permission for document reference tables is full access. This is set automatically in the subsystem whenever a new document reference table is created. Also, when you create a new subsystem, the maximum permission is automatically set for any existing document reference tables. This behavior is to enable the default permissions for document reference tables, which are automatically set to full access via the Everyone role.

Files tab

If you want users in the subsystem to be able to access a particular folder or file, then you must define access to those folders / files.

NOTE: Remember that users do not need to be granted access to files that are configured as startup files. If the user or role is assigned a file to open on startup, that file will be opened as a startup file, regardless of whether the subsystem allows access to that file.

Remember that subfolders and files will inherit any permission set at a "parent" folder level (unless permission is explicitly set for the lower level). For this reason, the effective permissions section displays for the subsystem, so that you can select a folder or file and see any inherited permissions for that item.

Where applicable, you should attempt to specify permissions at a level that accommodates ongoing folder and file additions. For example, if each subsystem will have its own reports folder and that is the maximum access required, then you can define access for just that folder. If the subsystem needs access throughout the Reports Library, then you most likely want to define the maximum access at the Reports Library level (perhaps also explicitly blocking access to certain subfolders and files). The users' individual rights and role inheritance will determine their actual level of rights within this boundary.

▶ Example

This example illustrates how subsystem maximum permissions limit users who are assigned to the subsystem.

The following screenshot shows file group maximum permissions for a subsystem named Facility 5. For file group Budget 2020, the subsystem is limited by the following filter: DEPT.Facility=5. Users who belong to this subsystem can only access plan files that are assigned to Facility 5.

General Permissions File Gr	oups Tables	Files			
Edit file group permissions.					
Budget 2018	B	Budget 2020)		
Budget 2019		File Group	Plan Files		
Budget 2020			Permissions rmission to edit:		(ASC) ×
		-	ile access:	Dept.Facility=5	
		Acces Save Unpro		Read/Write Allowed Allowed	
		Sheet File P		Allowed	

Subsystem maximum permissions

Subsystem settings do not grant any permissions; they only define a maximum boundary of permissions. Therefore users assigned to the subsystem must also be assigned to roles or be granted their own individual security permissions. Imagine that some users belonging to the Facility 5 subsystem are also assigned to the Facility 5 Managers role. This role grants access to all plan files within file group Budget 2020.

General Permissions	File Groups	Tables	Files	Startup					
Edit file group permissio	ons.								
Budget 2018			Budg	et 2020					
Budget 2019				Group	Plan Files				
Budget 2020			CO	nfigured l	Permission	15			
				-	nission to				rsc 🗙
				→Plan file	e access:			All plan fi	les
				Access				Read Only	· · · · ·
				Save Da				Not allow	
				Unprot				Not allow	
					ssistant:			Not allow	
					cessing As		t:	Not allow	ed
					ethod Acce is with Pro		lanagement:	Insert/Cha True	ange

Role permissions

Although the role grants access to all plan files, the subsystem is limited to DEPT.Facility=5. The users in the subsystem cannot have greater permission than what is allowed by the subsystem (assuming the users only belong to one subsystem). Therefore the effective permission for this user is DEPT.Facility=5.

General Permissions File Groups Table	Files Startup
Edit file group permissions.	
Budget 2018	Budget 2020
Budget 2019	File Group Plan Files
Budget 2020	Configured Permissions
A Axiom Software	- 🗆 🗙 🚽 🗙
_	
Effective permission details:	
	of 'Plan files: No plan files, Access level:
No Access, Calc Methods: Non	e'
	lity 5 Managers' permission reduced by es: Dept.Facility=5, Access level: Read nge, Interacts with Process
	ows 'Plan files: Dept.Facility=5, Access Insert/Change, Interacts with Process Dept.Facility=5
4: Subsystem Facility 5 restricts Plan files: Dept.Facility=5, Ac Insert/Change	Read Only
ultimate	em limits access to acility=5 OK
	Show Details

User effective permissions once roles and subsystems are applied

Managing subsystem roles

You can create new roles for a subsystem, and you can assign existing roles to a subsystem. When a role belongs to a subsystem, the role permissions are restricted by the subsystem boundaries, and all users in the role must also belong to the subsystem.

When assigning subsystem users to roles, you can use the subsystem roles or you can use "global" roles (that do not belong to the subsystem). For more information on the difference in behavior, see About subsystems and roles.

The subsystem settings should be completed before assigning any roles (unless the roles do not contain any users yet), to ensure that all desired subsystem restrictions are in place before any subsystem users log in.

Assigning a role to a subsystem

When you create or edit a role, you can assign it to a particular subsystem. Use the **Subsystem** dropdown list on the **General** tab to assign the role to a subsystem.

General	Permissions	File Groups	Tables	File			
Edit general information.							
Role De	etails			_			
Name	Finance						
Subsyst	tem Facility B		•	×			

- This assignment can only be made on the role record. The **Subsystem-Specific Roles** section on the subsystem record is for information only; assignment changes cannot be made there.
- Only administrators and users with the **Administer Security** permission can assign an existing role to a subsystem. If the role already has assigned users who do not belong to the subsystem when the role is assigned to the subsystem, then a validation error displays in the Security Management dialog. All users in the role must belong to the subsystem in order to assign the role to the subsystem.
- Subsystem administrators can create new roles for the subsystem. When a subsystem
 administrator creates a new role, it is automatically assigned to the subsystem when it is created.
 If the subsystem administrator manages multiple subsystems, then the role's subsystem
 assignment can be changed to any of those subsystems.
- Only administrators and users with the Administer Security permission can remove a role from a subsystem. Click the Remove button × to clear the assigned subsystem.

Managing subsystem users

You can create new users for a subsystem, and you can assign existing users to a subsystem. When a user belongs to a subsystem, the user's permissions are limited according to the subsystem boundaries. Users can belong to multiple subsystems.

The subsystem settings should be completed before assigning any users, to ensure that all desired subsystem restrictions are in place before any subsystem users log in.

If the subsystem feature is enabled, then all non-administrator users must be assigned to a subsystem. If a user does not belong to a subsystem, then that user will be blocked from logging in (unless the user is an administrator, a subsystem administrator, or a user with the **Manage Security** permission). This requirement is intended to help ensure that all non-administrator users have a subsystem limit applied to their security permissions.

NOTE: Alternatively, you can use the Security Manager page in the Web Client to assign users to subsystems. For more information, see Web Security Manager.

Assigning existing users to a subsystem

Administrators and users with the **Administer Security** permission can assign existing users to a subsystem from either the user record or the subsystem record. Any changes made in one area are automatically applied to the other area.

- From the subsystem record, on the General tab, click the Add + button in the Assigned Users section to add a user to the subsystem.
- From the user record, on the General tab, click the Add + button in the Assigned Subsystems section to assign the user to a subsystem.

Subsystem administrators cannot assign existing users to a subsystem, because subsystem administrators can only see user records for users that are already in the subsystem. It is assumed that a general security administrator will add existing users to the subsystem as needed. (The exception is if a user is the subsystem administrator for multiple subsystems. In that case, if an existing user belongs to one of the subsystems but not the other, the subsystem administrator can assign that user to the other subsystem.)

Creating new users for a subsystem

Subsystem administrators can create new users for use in a subsystem. When the new user is created, the user is automatically assigned to the subsystem.

If the subsystem administrator manages multiple subsystems then one of those subsystems will be assigned at random when the user is created. Once the user has been saved, the subsystem administrator can edit the user to change the subsystem assignment as needed.

When creating a new user, administrators and users with the **Administer Security** permission must save the new user before they are able to assign the user to a subsystem. The **Assigned Subsystems** box is not editable until the user has been saved.

Removing a user from a subsystem

Administrators, users with the **Administer Security** permission, and subsystem administrators can remove a user from a subsystem. This can be done from either the user record or the subsystem record.

- From the subsystem record, on the General tab, select one or more users in the Assigned Users section and then click the Remove X button.
- From the user record, on the General tab, select one or more subsystems in the Assigned Subsystems section and then click the Remove X button.

If a non-admin user is removed from all subsystems, then that user will no longer be able to log into Axiom Capital Tracking. The user must be assigned to a subsystem or granted administrator-level permissions before they are able to log in again.

Bulk edit of security

You can manage users, roles, and subsystems in bulk by using the **Open Security in Spreadsheet** feature. You can edit, add, and delete multiple users, roles, and subsystems simultaneously within a spreadsheet interface.

Only users with access to security can use this feature: administrators, users with the **Administer Security** permission, and subsystem administrators. The spreadsheet is limited as appropriate depending on the user's rights.

The following items *cannot* be edited in the spreadsheet interface; you must use the Security Management dialog for these items:

- File and folder access to any Axiom library (settings defined in the Files tab)
- Startup documents (settings defined in the Startup tab)

Opening security in a spreadsheet

To manage security in a spreadsheet:

1. On the Axiom tab, in the Administration group, click Security > Open in Spreadsheet.

NOTE: In systems with installed products, this feature may be located on the Admin tab. In the System Management group, click Security > Open in Spreadsheet.

The Open Security in Spreadsheet dialog opens.

- 2. At the top of the dialog, specify how you want users and roles presented in the spreadsheet:
 - Horizontally (default): Users, roles, and subsystems are displayed horizontally across columns. The security settings are displayed in rows.
 - Vertically: Users, roles, and subsystems are displayed vertically down rows. The security settings are displayed in columns.

3. Optional. If you want to limit the security settings that display in the spreadsheet, modify the check boxes in the **Select items to include** section.

For example, you might only want to work with a particular file group or table type. General user and role properties (such as name, email, etc.) are always included in the spreadsheet.

Clear the check boxes for any items that you do not want to display in the spreadsheet. You can select or clear items by major category (File Groups, Tables, etc.), or you can expand the major categories to select or clear the individual items (such as individual file groups).

4. Optional. If you want to filter the users that display in the spreadsheet, select the **Filter users** check box. By default, the spreadsheet displays all users, roles, and subsystems for the current system.

Item	Description
Include users	Select the following options to include those users in the spreadsheet:
who are	Enabled usersDisabled users
	By default, both options are selected, which means that both enabled and disabled users will be included in the spreadsheet.
	If both options are cleared, then only roles (and subsystems, if applicable) will be included in the spreadsheet.
Include users in these roles	If you want to only view users that belong to specific roles, select the check boxes for those roles. You can also choose to view users who do not belong to any roles. You can use the Select All and Clear All links to select or clear all roles.
	This selection also limits the role records that will be included in the spreadsheet.
Include users from these subsystems	If you want to only view users that belong to specific subsystems, select the check boxes for those subsystems. You can also choose to view users who do not belong to any subsystems. You can use the Select All and Clear All links to select or clear all roles.
	This also limits the subsystem records that will be included in the spreadsheet.
	This option only displays if subsystems are enabled for your system.

If Filter users is checked, you can specify the following options to filter users:

Selections from multiple categories will be combined. For example, if you select role Finance and subsystem 5, then the spreadsheet will contain all users that are in *either* the Finance role or subsystem 5 (*not* users who only belong to subsystem 5 and the Finance role).

5. Click OK.

The spreadsheet opens with the selected security options.

	В	D	E	F
1	Login or Role (prefix role with 'role:')	jbird	jdoe	jguppy
2				
3	Delete	No	No	No
4				
5	General:			
6	First Name or Role Description	jason	Jane	jason
7	Last Name	bird	Doe	guppy
8	Email Address			
9	Password			
10	Enabled	TRUE	TRUE	TRUE
11	Directory Sync Enabled	TRUE	TRUE	TRUE
12	User License Type	Standard	Standard	Standard
13	Authentication Type	Windows Passthrough	Axiom Prompt	Windows Passthrough
14	Roles (semi-colon separated)			
15	Administrator	TRUE	FALSE	TRUE
16				
17	Permissions:			
18	Access Custom Menus	Inherit	Inherit	Inherit
19	Administer Auditing Settings	Inherit	Inherit	Inherit
20	Administer Axiom Explorer	Inherit	Inherit	Inherit
21	Administer Calc Methods	Inherit	Inherit	Inherit
22	Administer Exports	Inherit	Inherit	Inherit

Example security spreadsheet (horizontal orientation)

Editing existing records

To edit the settings for a user, role, or subsystem, make changes directly in the spreadsheet. See the following section *Security settings in the spreadsheet interface* for more information on editing settings within the spreadsheet interface.

NOTE: You cannot edit user login names or role and subsystem names within the spreadsheet interface. If the name is changed, it will be saved as a new record, and the existing record will be unchanged.

For subsystem administrators, only users and roles that belong to their assigned subsystems are brought into the spreadsheet. Subsystem settings are not brought into the spreadsheet.

Adding new records

You can add new users, roles, and subsystems within the spreadsheet interface.

To add a new user, type the new user's login name in an empty cell in row 1 or column A (depending on the spreadsheet orientation), and then complete the desired security settings for that user. Note the following:

• Last name, first name, and email address are required for new users. If these items are blank, a save error will result. Other user properties such as license type and authentication type will use the same default values as when adding a new user in the Security Management dialog.

• You can type a password or leave the password blank. If left blank, the user will be assigned a randomly generated password.

To add a new role, type the role name in an empty cell in row 1 or column A (depending on the spreadsheet orientation), prefixed by "role:". For example, type role:MyRole. If the name is not prefixed by "role:", then it will be interpreted as a user login name. Note the following:

- No other settings are required to save a role.
- To assign users to the new role within the spreadsheet interface, you must add the role name to each individual user. There is no option to add users directly to the role record, like you can within the Security Management dialog.

NOTE: Adding subsystems works the same way as adding roles, except the subsystem name must be prefixed by "subsystem:". For example, subsystem:MySubsystem.

When adding new users, roles, or subsystems to the spreadsheet, all settings must be typed (or copied and pasted from other records). Drop-down lists are only available when editing existing records. For more information on the valid inputs for the settings, see the following section *Security settings in the spreadsheet interface*.

Users who are subsystem administrators can only create new users and roles. The new users and roles must be assigned to their subsystem.

Deleting records

You can delete users, roles, and subsystems within the spreadsheet interface. To delete a user or role, set **Delete** to **Yes**.

NOTE: When editing security in a spreadsheet, you can delete a role or a subsystem regardless of whether any users are assigned to it. The users will be updated to remove the assignment.

Users who are subsystem administrators can only delete users and roles that belong to their subsystem.

Saving changes

To save changes made in the spreadsheet:

• On the Axiom tab, in the File Options group, click Save.

A confirmation prompt lists the number of users, roles, and subsystems that you are about to update, create, or delete.

Settings are validated before the save occurs. If errors are found, they are displayed in the Save Errors pane. Any errors must be resolved before the save can occur.

After a successful save, you will be prompted to refresh the spreadsheet to bring in the most recent data.

Security settings in the spreadsheet interface

The following is a reference for completing or editing security settings via the spreadsheet interface.

NOTES:

- If an item is not explicitly discussed here, its input is the same as in the Security Management dialog. This section only discusses items that are completed differently than in the Security Management dialog.
- Most check boxes in the Security Management dialog correspond to TRUE (checked) and FALSE (unchecked) in the spreadsheet interface. Any deviations are noted in the following table.

For more information on the purpose of each security setting, see Security settings for users, roles, and subsystems are organized by tabs in the Security Management dialog. The following tabs are available:.

Item	Description
Login, role,	The user's login name, the role's name, or the subsystem's name.
or subsystem	Role names must be prefixed by role:. Subsystem names must be prefixed by subsystem:. For example, to create a role named Finance, type role:Finance.
	If users have been imported from Active Directory, those user names are prefixed with the Active Directory domain. For example: Corporate\JDoe.
	NOTE: You cannot rename existing records using the spreadsheet interface. If a name is changed, it is interpreted as a new record.
Delete	Select Yes if you want to delete the record. Otherwise, leave the default of No.
General	This section works the same way as the Security Management dialog, with the following exceptions:
	 Role assignments: For users, you can view and edit the list of roles that the user is assigned to. Each role name is separated by a semicolon. (The same thing applies to subsystem assignments if subsystems are enabled.)
	 User assignments: For roles, you cannot view or edit the list of assigned users in this interface. If you want to view all users assigned to a role or edit this list from the role perspective, then you must use the Security Management dialog.
	NOTE: The password display is always blank. You can change a user's password by entering a new password. When you save and then refresh the spreadsheet, the password field will return to blank.

Permissions	For users, specify one of the following:	
	 Inherit: The user will inherit the permission from any ro True: The user is explicitly granted this permission; role False: The user is explicitly denied this permission; role For roles and subsystems, specify either True or False. 	inheritance is ignored.
File Groups	 This section works the same way as the Security Managem following exceptions: <i>FGName</i> [calc method permission]: This item combined Insert and Allow Calc Method Change options from the dialog. Valid entries are Insert, Change, or Insert/Change <i>FGName</i> [create new records]: This item is listed for all applies to on-demand file groups. A save error will resurf or a standard file group. If a user has multiple permission sets, only the first set spreadsheet interface. 	es the Allow Calc Method Security Management ge. I file groups, but only It if this item is set to TRUE
Tables and Table Types	All table types are listed first, followed by all individual table If [write filter enabled] is False for a table or table type, the role's write access permissions are the same as their read p the other write access permissions in the spreadsheet can do not apply. For example, the following user has full read and write access because [full read access] is True and [write filter enabled [full write access] displays False, it does not matter becaus apply.	is means that the user or permissions. In this case, be ignored, because they ess to the GL table type, d] is False . Even though
	 35 GL [ignore roles] 36 GL [full read access] 37 GL [write filter enabled] 38 GL [full write access] 	FALSE TRUE FALSE FALSE

If [write filter enabled] is True, then the [full write access] permission and the [write filter] permission determine the user's level of write permissions.

Security tools

Axiom Capital Tracking provides security tools to control and monitor user access to Axiom Capital Tracking.

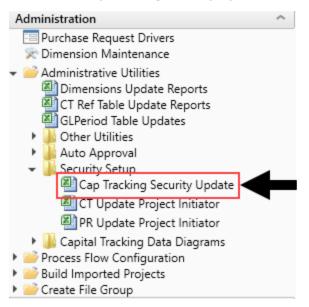
Using the Security Update utility

This utility allows you to easily add users to systems and roles for multiple users at once.

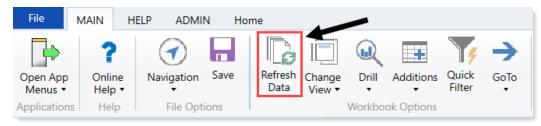
NOTE: This utility only adds users to systems and roles. To remove a user from a role or the system, you must use the Security Manager dialog. For more information, see Managing users.

To use the Security Update utility:

- In the Cap Track Admin task pane, click in the Administration section, click Administrative Utilities > Security Setup
- 2. Double-click Cap Tracking Security Update.



- 3. Refresh the data in the utility by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 4. In the Existing Users or New Users section, complete the following columns:

Option	Description
Input LoginName	Type the user's login name (UserID).
PrincipalID	This number is assigned by the system.
Input FirstName	Type the user's first name.
Input LastName	Type the user's last name.
Input EmailAddress	Type the user's email address.
Select AuthenticationType	Select how the users are authenticated by the system.
Only Axiom Prompt Password	For user's who are authenticated using the Axiom prompt, type the user's password.
IsSyncEnabled	The selection is automatically assigned by the system.
UserLicense Type	The selection is automatically assigned by the system.
IsEnabled	The selection is automatically assigned by the system.
IsAdmin	The selection is automatically assigned by the system.
Select Capital Planning System	 Do one of the following: To allow the user access to Axiom Capital Planning, select True. To not allow the user access to Axiom Capital Planning, select False. The system defaults to FALSE.
Select Capital	Select the security role to assign to the user.
Planning Role	The system defaults to Capital Tracking User if the Set Capital Tracking System field is set to TRUE.
Select Capital Approver?	To allow the user to approve projects, select Capital Planning Approver.To not allow the user to approve projects, leave the cell blank.
Computed/Input Capital Type Filter	The utility defaults to the standard filters based on the chosen role. You can make modifications specific to the user in this cell, but you must use the proper format and dimension reference. For example, if the filter leverages CapReq.DEPT as the default dimension reference, type CapReq.DEPT in your filter. NOTE: After filter assignments are made to a user, that filter is retained on
	each launch of this utility

Option	Description
Computed/Input CapComments Type Filter	The utility defaults to the common filter. You can make modifications specific to user in this cell, but you must use the proper format and dimension reference. For example, if the filter leverages CapReq.DEPT as the default dimension reference, type CapReq.DEPT in your filter.
	NOTE: After assignments are made to a user to include the filter, it is retained on each launch of this utility.

5. From the << Update Database on SAVE? drop-down, select Update.

* Note: This utility only adds users to systems & roles. If you need to REMOVE a user from a system

Input		Input	Input	Input
LoginName	PrincipalID	FirstName	LastName	EmailAddress
Update	<< Update	Database on SA	VE?	From the Main ribbon, select Pu
EXISTING USERS				
admin	1	System	Administrator	admin@axiomepm.com
admin	1	System	Administrator	admin@axiomepm.com

6. To propagate your changes in the Main ribbon tab, click Publish > File Processing > Process File.

Viewing the list of logged in users

Administrators can view a list of users who are currently logged into the system. For example, you may want to check to make sure that nobody is logged into the system before performing actions such as system upgrades.

For each user that is currently logged in, the list displays information such as:

- Full name and user name (login name)
- Email address
- Computer where the user is logged in
- Date and time the user logged in
- Date and time of the user's last activity during the session

The list of logged in users is for information purposes only—you can see whether any users are logged in, but you cannot manually log them off and end their sessions.

NOTE: Axiom Capital Tracking maintains a log of all login attempts, including failed logins. Currently there is no user interface to view this information, but it can be accessed directly in the system database in the SystemAccess table. For assistance, please contact Axiom Capital Tracking Support.

To view the list of logged in users:

• On the Axiom tab, in the Administration group, click Manage > Security > Logged in Users.

NOTE: In systems with installed products, this feature may be located on the Admin tab. In the System Management group, click Security > Logged in Users.

The **Currently Logged In Users** dialog opens, listing the users who are logged into this system. You can sort and filter the list using standard Axiom grid functionality.

Orphaned session records

When a user logs off normally, their session record is removed from the **Logged in Users** list. If a user's session ends unexpectedly—for example, due to a software crash or shutting down the computer without logging off—then the session record will be removed from the list after a few minutes, once the session no longer "reports back" to the Axiom Application Server.

NOTE: For Web Client sessions, closing the browser window does not automatically log out the user. In this case, the orphaned Web Client sessions will be automatically removed from the list in a few minutes as described above.

Axiom Capital Tracking does not automatically remove any session records based solely on time logged in. As long as the session remains connected and continues to report back to the application server, the session will continue to be listed indefinitely.

Removing session records

If desired, you can manually remove any logged in records by selecting the record in the list and clicking **Remove**. This simply removes the record from the list; it has no impact on any user's session. If a user is actually logged on and you remove their session record, the user will remain logged on.

In most cases this action should not be necessary, because sessions that are truly invalid will be automatically removed from the list in a few minutes as described above.

Enabling password rules

By default, Axiom Capital Tracking enforces a basic set of password rules. These rules apply to users assigned to Axiom Prompt authentication.

The built-in password rules are as follows:

- Must be at least 8 characters long
- Must contain at least 1 upper-case letter and at least 1 lower-case letter
- Must contain at least 1 non-alphabetic character (a number or a symbol)

The password rules are only enforced when creating new passwords. If any existing passwords do not meet these rules, those passwords will continue to be valid.

When the password rules are enabled, a **Generate Password** link is available on the **Set Password** dialog so that you can generate a random password that meets these rules. (This feature is not available if the password rules are changed from the built-in rules; see the note below.)

Password rules are enabled or disabled by using the system configuration property EnablePasswordPolicy. This setting is True by default. If you do not want to apply these rules, you can disable the setting by changing it to False, which means that any password is considered valid. You can do this by using the Software Manager, or by using a Save Type 4 report that has been set up to modify the system configuration table. Only administrators can modify system configuration settings.

NOTE: The system configuration settings contain two additional options related to EnablePasswordPolicy. **PasswordRegularExpression** defines the password rules, and **InvalidPasswordMessage** defines the error message displayed if a new password does not meet the rules. Axiom Capital Tracking does not currently provide a methodology for clients to change the password rules from the built-in rules, therefore, these two options should not be changed from their default settings. If you have a need to use different password rules, please contact Axiom Capital Tracking support for assistance.

Testing user security

Administrators and other users who manage security may need to log into Axiom Capital Tracking as other users, in order to test security permissions. For example, you may define a table access filter for a particular security role. In order to test that the filter is providing access to table data as expected, you can log in as a non-admin user who belongs to that role.

Using the Security Management dialog, you can "log in as" another user, for the purposes of testing their security settings.

To log in as a different user:

1. On the Axiom tab, in the Administration group, click Manage > Security > Security Manager.

NOTE: In systems with installed products, this feature may be located on the Admin tab. In the System Management group, click Security > Security Manager.

- 2. In the **Security Management** dialog, select the user whom you want to log in as. The following limitations apply:
 - Subsystem administrators can only log in as users who belong to their subsystem.
 - If a user is an administrator, subsystem administrators and users with the Administer Security permission cannot log in as that user.
 - The "log in as" feature cannot be used with users who are Axiom Support users.
- 3. In the lower left-hand corner, click Log in as selected user.

A new instance of Axiom Capital Tracking is launched, and you are automatically logged in as the selected user—you do not need to input a user name and password. The client version for the instance is whichever client version you are currently using (Excel Client or Windows Client).

Creating a permission report

You can create a report that details the effective security permissions for each user, for a particular file group or for all tables. This report may be useful for auditing purposes and for reviewing permissions to make sure they are set as intended.

The report is created as an Excel file. Once it is created, you can print it, or save it locally or within the Axiom file system as needed.

Only administrators and users with the **Administer Security** permission can create a permission report. Subsystem administrators do not have access to this feature.

File group permission report

The file group permission report is created on a per file group basis. When you create the report, you specify which file group you want to report on.

Each user defined in the system has at least one row in the report:

- If the user is an administrator, then the user has one row with a notation of: (Admin-Full Access).
- If the user has no access to the file group, then the user has one row with a notation of: (No Access).
- If the user has access to all plan files in the file group via a single permission, then the user has one row with a notation of: All Plan Files.
- In all other cases, the user has multiple rows in the report—one row for each individual plan file that they have access to. Each row details the user's permissions to that particular plan code, including the access level, calc method permissions, ability to save data, etc.

For example, if a non-admin user with access to the file group has permission to 3 plan files, then there will be 3 rows in the report for that user, one for each plan file.

The permissions displayed in the report are the full effective permissions of the user, taking into account all factors such as admin status, role inheritance, multiple file group permission sets, and subsystem restrictions.

NOTE: Permissions granted by process ownership are not reflected in this report. Users may be temporarily "elevated" to read/write and save data status when they are the assigned owner of an active process task for a particular plan file.

To create a file group permission report:

1. On the Axiom tab, in the Administration group, click Manage > Security > File Group Permission Report.

NOTE: In systems with installed products, this feature may be located on the Admin tab. In the System Management group, click Security > File Group Permission Report.

2. In the **Permission Report** dialog, select the file group for which you want to create the report, and then click **OK**.

The report opens as an Excel spreadsheet file. The file group it was generated for and the current date/time are noted at the top of the report. Excel's auto-filtering is automatically applied to the columns to make it easier to sort and filter the data.

Table permission report

The table permission report details user permissions per table. All tables are included in the report; it is not possible to filter by a particular table or table type.

Each user defined in the system has at least one row in the report:

- If the user has full access to all tables, then the user has one row with a notation of: (Full access to all tables).
- If the user has no access to any tables, then the user has one row with a notation of: (No access to any tables).

NOTE: It would be a rare situation for a user to have no access to any tables, because by default all users are granted access to document reference tables using the Everyone role.

• In all other cases, the user has multiple rows in the report—one row for each table that they have access to. Each row details the user's read and write permissions to that particular table. If a table is not listed, then the user does not have access to that table.

For example, if a user has access to 5 tables, then there will be 5 rows in the report for that user, one for each table.

The permissions displayed in the report are the full effective permissions of the user, taking into account all factors such as admin status, role inheritance, table type inheritance, and subsystem restrictions.

To create a table permission report:

 On the Axiom tab, in the Administration group, click Manage > Security > Table Permission Report.

NOTE: In systems with installed products, this feature may be located on the Admin tab. In the System Management group, click Security > File Group Permission Report.

The report opens as an Excel spreadsheet file. The current date/time are noted at the top of the report. Excel's auto-filtering is automatically applied to the columns to make it easier to sort and filter the data.

Security Integration

Axiom Capital Tracking can integrate with your organization's existing network security. You can:

- Enable Windows Authentication for user authentication against your Windows domain, including the option to import users from Active Directory.
- Enable LDAP Authentication for user authentication against your LDAP server.
- Enable SAML Authentication for user authentication against a SAML identity provider.
- Enable OpenID Authentication for user authentication against an OpenID provider.

NOTE: This guide discusses how to set up and use security integration features once they have been enabled for your system. For information on enabling the associated system configuration settings, see the *System Administration Guide*.

Using Windows Authentication

You can enable Windows Authentication for a system, to authenticate users based on their Windows domain credentials.

Windows Authentication behavior

When the Axiom Capital Tracking login screen displays, users must enter their Windows user name, domain, and password. If the domain is an allowed domain and the Windows user name matches a user name in Axiom Capital Tracking, then the credentials are passed to Windows for authentication into Axiom Capital Tracking.

If the Windows Authentication configuration for Axiom Capital Tracking only allows one domain, then that domain is assumed for authentication and users do not need to specify it when logging in. If multiple domains are allowed, then the domain must be specified in one of the following ways:

- The user must include the domain with their user name, such as: *DomainName\UserName*.
- The user must specify the appropriate domain using the **Domain** selection list on the login screen. This is an optional setting that can be enabled for your installation. For more information, see Domain selection list.

Users must enter their credentials each time they log in, unless they select **Remember me** to store their credentials for future use. For more information, see Remember me.

Setting up Windows Authentication

The following summarizes the setup process for Windows Authentication.

1. Windows Authentication must be enabled for the system.

For on-premise systems, Windows Authentication can be enabled during the Axiom Application Server installation. If it was not enabled during the installation, you can configure it later using either of the following options:

- Use the **Configure Authentication Methods** page of the Axiom Software Manager. For more information, see the *Installation Guide*.
- Use a Save Type 4 report to modify the applicable system configuration settings (WindowsAuthEnabled and WindowsAuthAllowedDomains).

When you enable Windows Authentication, you must specify the valid domains for authentication. You can specify multiple domains, separated by commas. You can also choose to enable Active Directory Synchronization if you want to import and synchronize users from Active Directory (for more information, see Synchronizing users with Active Directory).

For Axiom Cloud systems, Axiom Support will enable Windows Authentication for you as part of the system setup, if that is your chosen authentication method.

- 2. In security, Axiom Capital Tracking users must be set up as follows to support Windows Authentication:
 - The user's Axiom Capital Tracking login name must match their Windows login name.
 - The user's **Authentication** method must be set to **Windows User**. This is the default setting for new users if Windows Authentication is enabled for your installation.

If users are imported from Active Directory, then they will automatically be created with the appropriate login name and authentication type.

- 3. Axiom Cloud systems have the following additional requirements:
 - Installation of the Cloud Integration Service is required to enable the Axiom Cloud system to communicate with your local Windows domain, to validate user credentials. For information on installing the Cloud Integration Service, see the Axiom Cloud Technical Guide and contact Axiom Support as needed.
 - A remote data connection must be created in Scheduler, with the option Use for authentication service enabled.

All users who are assigned to the Windows Authentication method will be authenticated based on their Windows credentials. This is the only way that these users can log in—they cannot log in using an internal Axiom Capital Tracking password.

If you need to test the security settings of a Windows Authentication user, you can use the **Log in as** selected user feature to log in to Axiom Capital Tracking as that user. For more information, see Testing user security.

Adding or removing domains for Windows Authentication

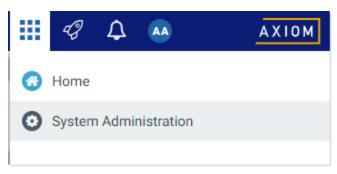
If the Windows domain names used by your organization for authentication have changed, you must update the list of allowed domains in Axiom Capital Tracking. Users can only log into Axiom Capital Tracking using Windows Authentication if their domain name matches one of the allowed domain names in this list. The list of allowed domains is stored in the system configuration settings (WindowsAuthAllowedDomains).

For example, when Windows Authentication was originally configured, you may have been using a domain named CompanyA. After a merger or reorganization, some or all of your users may now be using a domain named CompanyB. If those users need to log in to Axiom Capital Tracking, you must add CompanyB to the list of allowed domains. You might leave CompanyA on the domain list if your organization is actively using both domains, or you might remove it if your organization has completely switched to using the CompanyB domain.

The list of allowed domain names for Windows Authentication can be managed in the Axiom Web Client, on the **System Configuration** page.

To add or remove a domain name for Windows Authentication:

1. In the Web Client, click the menu icon **in the Global Navigation Bar.** From the Area menu, select **System Administration**.



2. From the Navigation panel, select System Status > System Configuration.

System Administration	
=	
Navigation	Ħ
Home	
Dashboard	
> Tools	
> Auditing	
 System Status 	
Infrastructure Section	
✓ Software Configuration	
Software Updates	
Update License	
System Configuration	

Alternatively, you can go directly to the System Configuration page as follows:

Example Cloudhttps://ClientName.axiom.cloud/Admin/SystemConfigurationURLWhere ClientName is the name of your Axiom Cloud system.

- Example On http://ServerName/Axiom/Admin/SystemConfiguration

 Premise URL
 Where ServerName is the name of the Axiom Application Server, and Axiom is the default name of the virtual directory.
- 3. On the System Configuration page, locate the row for WINDOWSAUTHALLOWEDDOMAINS, and then click Edit.

	Value	
LLOWSHOWEXCEL	True	/ Edit
LLOWSHOWPOWERPOINT	True	/ Edit
ALLOWSHOWWORD	True	/ Edit
SCHEDULER_CONTAINERIDLELINGER	120	sedit 🖉
SCHEDULER_MAXCONTAINERINSTANCES	0	/ Edit
SCHEDULER_SERVICECLUSTERNAME		/ Edit
SHOWREMEMBERME	True	/ Edit
SYSTEMNAME	Axiom Software Test System	/ Edit
WINDOWSAUTHALLOWEDDOMAINS	CompanyA	/ Edit

When you click the Edit button, the Value field on the row becomes editable.

4. Modify the list of domains as needed to add or remove domain names. Multiple domain names must be separated with commas.

For example, if the list is currently CompanyA, and you need to keep CompanyA but add new CompanyB, edit the domain names as follows:

		✓ Update
WINDOWSAUTHALLOWEDDOMAINS	CompanyA,CompanyB	© Cancel
		0.000

5. Click **Update** to save and apply your changes. The Value field now shows your edited list.

The changed list of domain names takes effect immediately after saving. If you removed a domain name, users in that domain can no longer log in using Windows Authentication. If you added a domain name, users in that domain can now log in using Windows Authentication.

Synchronizing users with Active Directory

You can import users from Active Directory, to automatically create users within Axiom Capital Tracking and assign them to the appropriate roles. Subsequent imports can be used to create new users and synchronize previously imported users.

Active Directory synchronization can only be used in conjunction with Windows Authentication. For more information, see Using Windows Authentication.

To set up Active Directory synchronization:

1. Enable Active Directory synchronization for your system.

For on-premise systems, Active Directory synchronization can be enabled during the Axiom Application Server installation. If it was not enabled during the installation, you can configure it later using either of the following options:

- Use the **Configure Authentication Methods** page of the Axiom Software Manager. For more information, see the *Installation Guide*.
- Use a Save Type 4 report to modify the applicable system configuration setting (WindowsAuthUserSyncEnabled).

For Axiom Cloud systems, Axiom Support can enable Active Directory synchronization for your system.

2. Create a job in Scheduler with an Active Directory Import task, and schedule the job to run periodically as needed for your environment.

Each import task can import users from a single Active Directory domain into the current Axiom Capital Tracking system. The import task specifies the Active Directory domain and groups to import, role mappings, and notification settings. If you need to import from multiple Active Directory domains, then you must create an import task for each domain.

For more information, see Creating a Scheduler job to import users from Active Directory.

When the Scheduler job is run, new users are created as needed and existing users are synchronized with Active Directory. For more information, see How Active Directory user synchronization works.

Creating a Scheduler job to import users from Active Directory

Once Active Directory synchronization has been enabled for your system, you must create a Scheduler job in order to import users from Active Directory into Axiom Capital Tracking.

The Scheduler job must contain an Active Directory Import task. Each import task can import users from a single Active Directory domain into the current Axiom Capital Tracking system. The import task specifies the Active Directory domain and groups to import, and role mappings for those groups. When setting up the job, you can configure a scheduling rule so that it runs nightly, weekly, or whatever frequency is appropriate for your organization.

If you need to import users from multiple Active Directory domains, then you must create an import task for each domain. You can create a single Scheduler job with multiple import tasks, or you can separate the import tasks into multiple Scheduler jobs. If all of the import tasks can use the same schedule, then it is easiest to create a single job with multiple tasks.

For Axiom Cloud systems, the Active Directory Import task can import users from your local Active Directory by use of the Axiom Cloud Integration Service. If you have a remote data connection that is enabled for user authentication, this task will use that connection when the job is executed by Scheduler.

Before you begin

Before creating the job, you should make sure you are prepared with the following information:

- The name of your Active Directory domain, or the server name that hosts Active Directory. You will need to specify one of these to identify the source domain for the import.
- The user credentials to use to access Active Directory. You can specify a user name and password, or you can use the credentials of the Axiom service that is performing the process.
- The groups to import from Active Directory. You must know the names of the groups that you want to import from Active Directory. All users in the selected groups will be imported into Axiom Capital Tracking. If you do not have groups that exactly correspond with the users that you want to create in Axiom Capital Tracking, you may need to work with your Information Technology department to create new groups or refine existing groups.
- The Axiom Capital Tracking roles, subsystems, user license types, and authentication types for each imported group. When users are imported, they can be automatically assigned to one or more roles and subsystems in Axiom Capital Tracking, and assigned a user license type and an authentication type. Make sure you know which options to use.

Creating the job

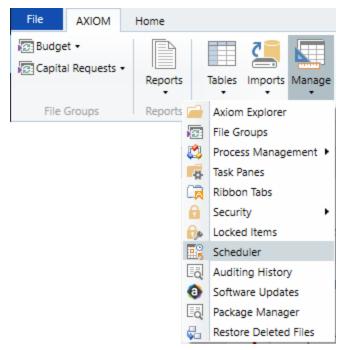
In order to create a Scheduler job, you must be an administrator or have the **Scheduled Jobs User** security permission. Non-admin users must also have read/write access to at least one folder in the Scheduler Jobs Library.

Scheduler jobs can only be created in the Desktop Client. Although you can view the status of existing jobs in the Web Client, you cannot create new jobs in that environment.

IMPORTANT: The Active Directory Import task can only be executed by a user who has permission to create users in security—an administrator, a subsystem administrator, or a user with the **Administer Security** permission. If you plan to schedule the job for automated execution, the job owner must have the required permissions to execute the task. The job owner is the user who last saved the job. Effectively, this means that the job must be created by a user with the required permissions. If the job is created by a user who does not have the required permissions, then the job must be saved by a user with the required permissions in order to re-set the job owner. You can see the current job owner for the job in the **Job Variables** section of the job properties.

To create an Active Directory Import job in Scheduler:

1. On the Axiom tab, in the Administration group, click Manage > Scheduler.



Scheduler on default Axiom ribbon tab

In systems with installed products, this feature may be located on the Admin tab. In the System Management group, click Scheduler.



Scheduler on Admin tab (example product ribbon)

2. In the Scheduler dialog, click New.

A Axio	m Scheduler	- Scheduled	l Jobs		
Job	Service				
New	Open Sav	ve Close	Run Once		
	Jo	b			
🕼 Sche	duled Jobs				
ID		Job		User	Status
ID 457551	2 System.P	Job rocessNotifi	cation	User System	Status Pending

A new job is opened in the dialog, with a tab name of New Job.

3. Click Add > Active Directory Import to add the task to the new job.

A Axiom Scheduler - New Job									
Job	Service								
					d	1			
New	Open	Save	Close	Run Once	Add	Move Up	Move Down	Remove Selected	Clear All
	Active Directory Import Tasks								
🕼 Sched	Schedul 🛅 Administer Workflow								
Gene Job V		Copy On Demand Plan Files							
Schee		Create Plan Files							
Event	11==1	Echo Task							
Tasks	Notific Tasks Execute Command Adapter								
Job R	_								
		Export ETL Package							
	File Processing								

The task is added to the job, and you can now configure the task properties. In the **Task Details** section, the task has three tabs: **Source Directory**, **Notification**, and **Preview Import**.

- 4. On the **Source Directory** tab of the Task Details, select either **Domain** or **Server** to specify the source domain for the import.
 - If you select Domain, enter the name of the domain.
 - If you select Server, enter the name of the domain controller server.

The server option is available in case you are not currently logged into the source domain, and your current domain does not have access to the source domain. In this case, you must use domain credentials in order to access the source domain.

Only one domain can be selected per import task. If you want to import users from multiple domains into an Axiom Capital Tracking system, then you must create multiple import tasks.

Scheduled Jobs 🗋 New Job	
General	> Task Control
General Job Variables Scheduling Rules Event Handlers Notification Tasks Active Directory Import Job Results	Task Control Task Control Task Details Source Directory Obmain Or O Server: MyDomain Credentials: Oredentials: Output: Use process credentials Ospecify domain credentials User: Password: Password: Never Enable Users Groups to import: Add Remove Role Mapping
< >>	

- 5. For **Credentials**, specify the user credentials to use when accessing Active Directory for the import. Select one of the following:
 - Use process credentials: (Default) Use the credentials of the network service account for Axiom Scheduler Server (on-premise installations) or Axiom Cloud Integration Service (Axiom Cloud systems).
 - Specify domain credentials: Enter the credentials of a specified domain User and Password. This option is required if you identified the source domain using the server name instead of the domain name.

General	> Task Control
Job Variables	✓ Task Details
Scheduling Rules Event Handlers	Source Directory Notification Preview Import
Notification	Source Directory
▲ Tasks	Domain Or O Server: MyDomain
Active Directory Import Job Results	Credentials:
	O Specify domain credentials
	User:
	Password:

- 6. If you do not want new and synchronized users to be automatically enabled by the import, select **Never Enable Users**. This option works as follows:
 - If unchecked (default), then newly imported users are enabled as part of the import. Additionally, any existing imported users who have been changed to disabled are reenabled.
 - If checked, then newly imported users are not enabled as part of the import. A security administrator must modify the security settings after the import is complete to enable the new users. Existing imported users retain their current enabled status.

We recommend enabling this option because in most cases it is necessary for a security administrator to make further changes to security settings before the user account is fully ready for use. Additionally, if your system uses subsystems, any newly imported users will not be able to log in anyway, since the import does not assign users to a subsystem.

General	> Task Control
General Job Variables Scheduling Rules Event Handlers Notification a Tasks Active Directory Import Job Results	Task Control Task Details Source Directory Notification Preview Import Source Directory Domain Or O Server: MyDomain Credentials: O Specify domain credentials User: Password:
	Never Enable Users

7. In the Groups to import section, click Add to select one or more groups to import.

General	Task Control	
Job Variables	✓ Task Details	
Scheduling Rules Event Handlers	Source Directory Notification Preview Import	
Notification	Source Directory	
 Tasks Active Directory Import 	Domain Or O Server: MyDomain	
Job Results	Credentials:	
	• Use process credentials	
	O Specify domain credentials	
	User:	
	Password:	
	✓ Never Enable Users	
	Groups to import:	_
	Add	
	Remove	
	Role Mapping	
		- 1
< >		

The **Select Groups** dialog opens, displaying a list of groups from the source domain.

• Select the group or groups that you want to add, and then click **OK**. You can use the search box at the top of the dialog to find a group by name. You can use the SHIFT or CTRL keys to select multiple groups in the list.

A Select one or more groups	- 0	×
<type filter="" here="" list="" to=""></type>		×
Directory Group	Path	~
Group A	UN/Autorial at Outons and	
Group B	OR/Automatical Outrities level	
Group C	(34) Automatical Chullenters 31.3	
Group D	(24P) hadrarial rat/Ou-Printers In B	
Group E	(347) Naufmanhall nat Oliv Printers Kate	
Group F	CAP/Automatical/Activities Kathy	
Group G	(34P) Nauhranhal nat Olu-Pinten Ken)	
Group H	(34) (backmanhall net) (Nu-hinters KU)	
Group I	GM-Redmarked ret/Clubinses 60%	
Group J	CAP (Application of Chickenses) (AC)	\sim
	OK Can	cel

• The selected group(s) display in the **Groups to import** box. If you have added a group by mistake, you can select it and click **Remove**.

Groups to import:	
Group D	Add
	Remove
	Role Mapping

8. In the **Groups to import** section, click **Role Mapping** to define the role mappings for each selected group:

General	> Task Control
Job Variables Scheduling Rules	✓ Task Details
Event Handlers	Source Directory Notification Preview Import
Notification	Source Directory
Tasks Active Directory Import	Domain Or O Server: MyDomain
Job Results	Credentials:
	Our Section
	O Specify domain credentials
	User:
	Password:
	✓ Never Enable Users
	Groups to import:
	Group D Add
	Remove
	Role Mapping
< >	

• In the **Role Mapping** dialog, click the **Add mapping** icon + in the top right to add a mapping row to the dialog.

A Role Mapping				? >	<
Map directory group: Axiom Software role.		roles. Users in the	directory group w	ill be given the associated	
			-	+ >	<
Directory Group	Axiom Role	Subsystem	User Type	Authentication Type	
				OK Cancel	

- In the mapping row, select a **Directory Group** to map, then select the following:
 - The Axiom Role that you want the users to belong to. You can select None if you do not want the users to be assigned to a role.
 - The **Subsystem** that you want the users to belong to. This option is only present if subsystems are enabled for your system.
 - The User Type for the users. This means license type, such as a Standard license or a Viewer license.
 - The Authentication Type for the users, Windows User or SAML. If you want to use a different authentication type, then you must update the users after importing to assign them to the desired authentication type. You may be able to create a Save Type 4 report to Axiom.Principals to update the users, and process that report within the same Scheduler job, after the Active Directory import task is performed.

A Role Mapping				?	×
Map directory groups Software role.	to Axiom Software n	oles. Users in the dire	ectory group will be	given the associated	Axiom
Directory Group	Axiom Role	Subsystem	User Type	Authentication Typ	e
Group D 🛛 🗸	Finance ~	TestSubsyster ~	Standard ~	SAML ~	
				ОК	ancel

- Repeat these steps for each group to be imported. If you want the users in a group to belong to more than one role and/or subsystem, you can create multiple mapping rows for that group. If you need to remove a mapping row, select it and then click the Remove mapping icon X in the top right of the dialog.
- When you are finished defining mappings, click **OK** to return to the Scheduler task properties.

The defined role mappings do not display in the **Groups to import** box. If you want to review or edit the role mappings, click **Role Mapping**.

NOTES:

- If a group has multiple mapping rows to assign the users to multiple roles and/or subsystems, then the specified user type and authentication type should be the same on each row. If the user type or authentication type is different, then the entry on the last processed mapping will be used.
- If a group has no defined role mappings, then the users will not be assigned to any roles or subsystems. If the import creates new users without role mappings, the assigned user type is Standard and the assigned authentication type is Windows User.
- 9. On the **Notification** tab of the Task Details, enter one or more email addresses to send a notification when users have been added or synchronized due to running the Active Directory Import task. Separate multiple addresses with a semi-colon.

🕼 Scheduled Jobs 📄 New Jo	de
General Job Variables Scheduling Rules Event Handlers Notification Tasks Active Directory Import Job Results	 Task Control Task Details Source Directory Notification Preview Import List email addresses to be notified when there are changes made to the Axiom Software system. jdoe@mycompany.com; rxavier@mycompany.com

When the import task is run, if any users are created or modified in the Axiom Capital Tracking system, an email notification will be sent to the addresses specified here. The email summarizes the changes made. This email notification is independent of any job-level notification settings (which notify based on overall job completion or failure).

We recommend setting up this task-level notification to send emails to the security administrator (s) responsible for maintaining the security settings in Axiom Capital Tracking, so that he or she can define security settings for newly added users, validate changes made to existing users, and perform any other follow-up tasks.

10. On the **Preview Import** tab of the Task Details, click **Preview** to see the changes that will be made to Axiom Capital Tracking Security when the Active Directory Import task is run.

The preview feature is intended to help you verify that you have set up the task correctly. If the reported changes are not as you expect, then you can review and adjust the task settings as needed. No changes are made to security when preview is run.

General Job Variables Scheduling Rules Event Handlers Notification > Task Control Image: Task Details Source Directory Notification Preview shows the changes that would be made to Axiom Software, without making them. Preview shows the changes that would be made to Axiom Software, without making them. Image: Task Directory Import Preview Cancel Disabling Axiom Software users that are no longer in the user directory Disable Axiom Software user 'FAlfed' Imported 'MGurne' Updated 'JSmit' Updated 'NCross' Imported 'Rchlein' Updated 'NCross' Imported, 2 updated, 1 disabled, 0 failed	6	Scheduled Jobs	🗋 New Jo	b	
		Job Variables Scheduling Rules Event Handlers Notification Tasks Active Directory	y Import	 Task Details Source Directory Notification Preview Import Preview shows the changes that would be made to Axiom Software, without making them. Preview Cancel Disabling Axiom Software users that are no longer in the user directory Disabled Axiom Software user 'FAlfed' Imported 'TKetchu' Imported 'MGurne' Updated 'JSmit' Imported 'rschlein' Updated 'NCross' 	

This completes the settings for the Active Directory Import task. However, there are a few general job properties that should also be reviewed and completed as needed.

11. In the left-hand pane, click **Scheduling Rules**. Using this section, you can define a scheduling rule so that the job runs automatically as needed. Typically, organizations want the Active Directory Import task to run regularly so that users are kept in sync.

Click **Add** to add a scheduling rule to the job, and then complete the rule as needed based on your desired schedule. In the following example, this job will run Monday through Friday at 11:00PM.

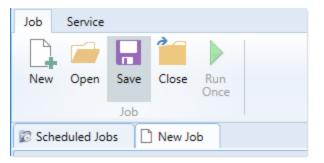
Job Service				
New Open Save Close	Run Once Add Remove Clear Selected All Scheduling Rules			
🕼 Scheduled Jobs 🚺 New Jo	b			
General	Active Starting On	Ending On Day Of Week	Hours	Minutes
		4.5	22	0
Job Variables Scheduling Rules	\checkmark	1-5	23	0

12. In the left-hand pane, click **Notification**. Using this section, you can configure the notification settings for the overall Scheduler job. The job-level notifications are intended to inform interested parties when the job completes successfully or has errors. These notifications do not contain any information about user changes to Axiom Capital Tracking Security—to inform someone about specific user changes, you must use the task-level notification settings as described in step 9.

By default, jobs are configured to send a notification whenever the job is run (Send all email notifications). You can change the Job Notification Level as needed, and you can modify the recipients, subject, and message. In the following example, a notification is only sent when the job has errors.

🕼 Scheduled Jobs 📋 New Jo	b	
General Job Variables Scheduling Rules Event Handlers Notification Tasks Active Directory Import Job Results	Job Notification Level Send all email notifications Send email notification only when the job has errors None Send email notification to different email addresses when the job has errors or succeeds Notification Message Content To [CurrentUser.EmailAddress] From [Scheduler.FromEmailAddress] Subject Axiom Scheduler Notification User Message	<

- 13. Complete any other job or task properties as needed. In most cases, the default settings are sufficient.
- 14. Click **Save**. You can define a name for the job and save it to the desired location in the Scheduler Jobs Library.



Once you save the job with an active scheduling rule, the job is immediately added to the schedule to await the first scheduled execution time. You can see this scheduled instance on the **Scheduled Jobs** tab.

You can also run the job manually as needed by opening the job and clicking **Run Once**. Note that when using Run Once, the job runs as the current user instead of the job owner, so you must have the required permissions to perform the import.

For more information on what happens when the Active Directory Import task is run, see How Active Directory user synchronization works.

How Active Directory user synchronization works

This topic describes how new users are created and how existing users are updated when an Active Directory Import job runs in Scheduler.

NOTE: The Active Directory domain name is always used to determine matching users for purposes of the Active Directory import. If a user name matches but the domain does not, that user is not considered to be a matching user.

Creating new users via Active Directory import

For each unique user name in the import, Axiom Capital Tracking looks for a matching user name in Axiom Capital Tracking Security. If no match is found, then a new user is created. If a match is found, then the user synchronization behavior applies as detailed in the following section.

New users are created with the following user properties:

- Login (from Active Directory)
- Domain (from Active Directory)
- First name (from Active Directory)
- Last name (from Active Directory)
- Email address (from Active Directory)
- License Type (from Scheduler task settings)
- Authentication (from Scheduler task settings)
- Enabled (from Scheduler task settings)
- Assigned Roles (from Scheduler task settings)
- Assigned Subsystems (from Scheduler task settings)
- Directory Sync Enabled (assumed as enabled)

NOTE: The imported user's domain does not display in the Security dialog, but it is stored in the database and can be reported upon by use of an Axiom query to the Axiom.Principals table. The relevant domain also displays before each user name when using Open Security in Spreadsheet. The domain is stored in case of a situation where two users with the same user name are imported from different domains.

Synchronizing users via Active Directory import

If a user name in the Active Directory import matches an existing user name in Axiom Capital Tracking security, then that user will be updated ONLY if the **Directory Sync Enabled** check box remains selected for the matching user. Matching users are updated as follows:

- User Properties: If the first name, last name, or email address has changed in Active Directory, it is updated in Axiom Capital Tracking.
- User License Type: If the assigned user license type for the Active Directory group has changed, then the license type is updated in Axiom Capital Tracking.
- Authentication Type: If the assigned authentication type for the Active Directory group has changed, then the authentication type is updated in Axiom Capital Tracking.

- Role and Subsystem Assignments: The user's role and subsystem assignments are updated as follows:
 - If a role or subsystem assignment has been added for the Active Directory group, the user is assigned to that role or subsystem.
 - If a role or subsystem assignment has been removed from the Active Directory group, the user is only removed from the role or subsystem if another group is mapped to that same role or subsystem (and the user does not also belong to that other group). If the previously assigned role or subsystem is not present in the mappings at all, then the user is not removed from the role or subsystem.
 - If the user no longer belongs to the Active Directory group, and that group's role or subsystem mappings still exist, then the user is removed from those roles and subsystems (unless the user belongs to another Active Directory group in the import that is mapped to the same roles and subsystems).
- **Disabled Users**: If the user is disabled in Active Directory, then the user is disabled in Axiom Capital Tracking. If the user is disabled in Axiom Capital Tracking but enabled in Active Directory, then the user will either be re-enabled or left as disabled depending on whether **Never Enable Users** is checked in the Scheduler task settings.

If the **Directory Sync Enabled** check box is cleared for the matching user, then that user will be ignored by the Active Directory synchronization process and left as is.

If the **Directory Sync Enabled** check box is selected for a user and that user does NOT match a user name in the Active Directory import, then the user is disabled. If you still need the user account, you can reenable the user and clear the Directory Sync Enabled check box so that the user will be ignored by future imports.

NOTES:

- Role mappings are processed in role ID order. If a group has multiple mappings, and the user license type or authentication type does not match on all of the mappings, then users in the group will be assigned to the license type and authentication type associated with the last-processed role.
- If a role mapping uses a subsystem-specific role, users will be assigned to that role regardless of whether they also belong to the associated subsystem. This creates an invalid security configuration that must be corrected after the import.

Editing imported users

Once an imported user has been created in Axiom Capital Tracking, you can edit the user's permissions in Security as appropriate.

You can assign the user to additional roles and/or subsystems, and those additional assignments will persist through subsequent imports. However, if the user is part of an import that contains a mapping with those roles or subsystems, and the user is not in the group affected by that mapping, then the user will be removed from those roles or subsystems.

You can edit user properties such as name, email, and authentication type, however, these changes will be overwritten the next time the Active Directory import task is run, assuming that **Directory Sync Enabled** is still checked for the user.

If you do not want the user to be synchronized with Active Directory anymore, but you still want the user to be active in Axiom Capital Tracking, then you should clear the **Directory Sync Enabled** check box for the user. Once this option is disabled, the user will be ignored by the import and will be treated like a manually created user.

Treatment of manually created users

If Active Directory Import is enabled for your system, you can still manually create users and exclude them from the Active Directory import and synchronization process by clearing the **Directory Sync Enabled** check box for the user. The user will be ignored by any future Active Directory Import jobs.

If you manually create a user and leave the **Directory Sync Enabled** check box selected, then the user will be treated as follows the next time an Active Directory Import job is run:

- If the user matches a user name in the Active Directory import, then the user will remain active and will be synchronized with Active Directory.
- If the user does not match a user name in the Active Directory import, then the user will be disabled.

Using LDAP Authentication

You can enable LDAP Authentication for Axiom Capital Tracking, so that users are authenticated against your LDAP server when launching Axiom Capital Tracking.

NOTE: LDAP Authentication is not supported for use with Axiom Cloud systems.

LDAP Authentication behavior

When the Axiom Capital Tracking login screen displays, users must enter their LDAP user name (with or without the suffix) and their LDAP password. If the LDAP user name matches a user name in Axiom Capital Tracking, then the credentials are passed to LDAP for authentication into Axiom Capital Tracking.

If the LDAP Authentication configuration for Axiom Capital Tracking only allows one LDAP suffix, then that suffix will be used for all LDAP authentication. The user can include the suffix or not when logging in, and the Axiom user name can contain the suffix or not. Axiom will automatically append the suffix as needed when sending the credentials to LDAP for authentication. However, if multiple suffixes are allowed, then the suffix must be specified using any of the following approaches:

- The user must specify the appropriate suffix using the **Domain** selection list. This is an optional login setting that can be enabled for your installation. For more information, see Domain selection list.
- The user must include the suffix as part of their user name when logging in.
- The user names in Axiom Capital Tracking must include the appropriate suffix for each user.

Users must enter their credentials each time they log in, unless they select **Remember me** to store their credentials for future use. For more information, see Remember me.

Setting up LDAP Authentication

The following summarizes the setup process for LDAP Authentication.

To set up LDAP Authentication:

1. LDAP Authentication must be enabled for the system.

LDAP Authentication can be enabled during the Axiom Application Server installation. If it was not enabled during the installation, you can configure it later using the **Configure Authentication Methods** page of the Axiom Software Manager. For more information, see the *Installation Guide*.

When you enable LDAP Authentication, you must specify the connection string to the LDAP server, as well as a user name and password for the connection. You must also specify the allowed suffix(es) for user names.

- 2. In security, Axiom Capital Tracking users must be set up as follows to support LDAP Authentication:
 - The user's Axiom Capital Tracking login name must match their LDAP login name.

The user name can contain the LDAP suffix or not as desired. Note that the user name must include the suffix if there is a naming conflict with another user who is configured with a different authentication type (or with a different LDAP suffix). For example, if you have an Axiom Prompt user jdoe, and you have an LDAP user jdoe, then the LDAP user must include the suffix on their user name to differentiate the two users.

• The user's **Authentication** method must be set to **LDAP Prompt**. This is the default setting for new users if your installation is enabled for LDAP Authentication.

All users who are assigned to the LDAP authentication type will be authenticated by your designated LDAP directory. This is the only way that these users can log in—they cannot log in using an internal Axiom Capital Tracking password.

If you need to test the security settings of an LDAP authentication user, you can use the Log in as selected user feature to log in to Axiom Capital Tracking as that user. For more information, see Testing user security.

Using SAML Authentication

You can enable SAML Authentication for Axiom Capital Tracking, so that users are authenticated based on a designated identity provider (such as Shibboleth or Windows Active Directory Federation Services). This option is only supported for use with Axiom Cloud systems.

SAML Authentication behavior

SAML Authentication (Security Assertion Markup Language) is a web-based authentication method. Users access Axiom Capital Tracking by going to the Axiom Web Client in a browser. Users must enter their user name and password for their identity provider. Once they are authenticated, if the user name matches a user name in Axiom Capital Tracking, then the user can access the Axiom Web Client or install / launch the Axiom Excel Client or Windows Client from the web page.

Users assigned to SAML Authentication can only access Axiom Capital Tracking from the web. The Excel Client and Windows Client cannot subsequently be launched using a shortcut on the user's computer; the user must continue to log into the Axiom Web Client in order to start the Desktop Client. When using SAML Authentication, you may want to configure the Axiom Application Server installation so that no shortcuts are placed on user computers during the client installation, since users will not be able to use these shortcuts.

Setting up SAML Authentication

The following summarizes the setup process for SAML Authentication.

1. SAML Authentication must be enabled for the system.

For Axiom Cloud systems, Axiom Support will enable SAML Authentication for you as part of the system setup, if that is your chosen authentication method.

2. Complete any additional configuration requirements to enable SAML Authentication.

SAML Authentication requires additional setup steps. These steps differ depending on the designated identity provider. Please contact Axiom Support for assistance in completing the SAML Authentication setup.

- 3. In security, Axiom Capital Tracking users must be set up as follows to support SAML Authentication:
 - The user's Axiom Capital Tracking login name must match their login name for the SAML identity provider (with or without an @suffix as appropriate).
 - The user's Authentication method must be set to SAML.

If you need to test the security settings of a SAML Authentication user, you can use the Log in as selected user feature to log in to Axiom Capital Tracking as that user. For more information, see Testing user security.

Logging in as an Axiom Prompt user when SAML Authentication is enabled

You can also set up **Axiom Prompt** users when SAML Authentication is enabled, such as to allow Axiom Support to access the system without giving them credentials for the SAML identity provider. These users must go a special area of the web site in order to log in:

https://ServerName/Axiom/Home/Login

Where *ServerName* is the name of your Axiom Application Server and Axiom is the name of the virtual directory.

Using OpenID Authentication

You can enable OpenID Authentication for Axiom Capital Tracking, so that users are authenticated based on a designated OpenID provider (such as Google OpenID Connect).

OpenID Authentication behavior

OpenID Authentication is a web-based authentication method. Users access Axiom Capital Tracking by going to the Axiom Web Client in a browser. Users must enter their user name and password for their OpenID provider. Once they are authenticated, if the user name matches a user name in Axiom Capital Tracking, then the user can access the Axiom Web Client or install / launch the Axiom Excel Client or Windows Client from the web page.

Users assigned to OpenID Authentication can only access Axiom Capital Tracking from the web. The Excel Client and Windows Client cannot subsequently be launched using a shortcut on the user's computer; the user must continue to log into the Axiom Web Client in order to start the Desktop Client. When using OpenID Authentication, you may want to configure the Axiom Application Server installation so that no shortcuts are placed on user computers during the client installation, since users will not be able to use these shortcuts.

Setting up OpenID Authentication

The following summarizes the setup process for OpenID Authentication.

1. OpenID Authentication must be enabled for the system.

For on-premise systems, OpenID Authentication can be enabled during the Axiom Application Server installation. If you did not enable it during the original installation, you can use Repair to change the installation to enable it. For more information, see the *Installation Guide*.

When you enable OpenID Authentication for Axiom Capital Tracking, you must specify the Client ID and Client Secret for your OpenID provider.

For Axiom Cloud systems, Axiom Support will enable OpenID Authentication for you as part of the system setup, if that is your chosen authentication method.

2. Complete any additional configuration requirements to enable OpenID Authentication.

At minimum, you must configure the OpenID provider with the redirect URI to the Axiom Capital Tracking login page (such as <URLtoAxiom>/openid/login). Other setup steps may be necessary, depending on your particular configuration. Please contact Axiom Support as needed for assistance in completing the OpenID Authentication setup.

- 3. In security, Axiom Capital Tracking users must be set up as follows to support OpenID Authentication:
 - The user's Axiom Capital Tracking login name must match their login name for the OpenID provider, including the @suffix.
 - The user's Authentication method must be set to OpenID.

If you are an administrator and you need to test the security settings of an OpenID Authentication user, you can use the **Log in as selected user** feature to log in to Axiom Capital Tracking as that user. For more information, see Testing user security.

Logging in as an Axiom Prompt user when OpenID Authentication is enabled

You can also set up **Axiom Prompt** users when OpenID Authentication is enabled, such as to allow Axiom Support to access the system without giving them credentials for the OpenID identity provider. These users must go a special area of the web site in order to log in:

https://ServerName/Axiom/Home/Login

Where *ServerName* is the name of your Axiom Application Server and Axiom is the name of the virtual directory.

Login behavior options

The following options apply to all authentication types except SAML and OpenID Authentication.

Domain selection list

When a user logs in, Axiom Capital Tracking looks for a matching user name within Axiom security and applies the specified authentication type for that user. For LDAP Authentication and Windows Authentication, if only one allowed domain or suffix is specified, that information can be assumed and the user does not need to include it when logging in. If multiple domains or suffixes are specified, then the user must include that information as part of their user name. For example: *DomainName\UserName* for Windows Authentication.

Alternatively, you can configure your system so that all users must specify their authentication type / domain when logging into Axiom Capital Tracking, using the **Domain** selection list. The Domain selection list displays the following:

• Axiom Named User (for Axiom Prompt login)

- Each allowed Windows Authentication domain (if Windows Authentication is enabled for the installation)
- Each allowed LDAP suffix (if LDAP Authentication is enabled for the installation)

When the Domain selection list is enabled, the user must make the appropriate selection in order to log in. For example, a Windows Authentication user must select their Windows domain name. Because it is specified separately, the domain or suffix does not need to be added to the user name, even when there are multiple allowed domains or suffixes.

The following screenshot shows an example of the Domain selection list. In this example, the installation has enabled Windows Authentication with two allowed domains. The two domain names display on the selection list as well as the choice to log in as an Axiom Named User.

		KaufmanHall AX	1 O M	
Domain	Kaufmanhall		Ŷ	
Username	Kaufmanhall AxiomSoftware			
Password	Axiom Named User			
	Remember me		_	
	Login		Cancel	
Copyright © 2019 Kaufman Hall™. All Righ	ts Reserved.	Vers	ion 2019.1.14.199	

The Domain selection list can be enabled or disabled using the

AuthenticationDomainSelectionListRequired system configuration setting. By default this is set to False, which means the Domain selection list only displays if your system contains duplicate user names that require the domain to be specified to differentiate those users. If you set this to True, then the Domain selection list displays at all times.

If the Domain selection list is enabled, and if Windows Authentication is enabled for the installation, then by default the user's current domain will be selected in the list (if that domain is one of the allowed domains). Otherwise, the first option in the list is selected by default. Options are ordered as follows: LDAP suffixes, Windows domains, Axiom Named User.

Remember me

Users can optionally select **Remember me** at the login screen to store their Axiom Capital Tracking authentication for future use. This information is encrypted and only applies to the current user for the current machine. The next time the user starts Axiom Capital Tracking on the current machine, they will not be prompted to log in.

Although all Axiom Capital Tracking clients have a Remember Me check box on the login screen, note that the remembered status is stored separately for access to the Web Client versus the Desktop Client. For example, a user can choose Remember Me when logging into the Excel Client, and then that user will not be prompted when subsequently accessing either the Excel Client or the Windows Client. However, if the user attempts to access the Web Client, they will be prompted for credentials (and can then choose to be separately remembered for the Web Client).

NOTE: Logging out of a client will clear the remembered status for that client type. Although the Excel Client and Windows Client do not have an explicit log out feature, logging out of the Word or PowerPoint add-in will clear the remembered status for the Desktop Client (but only if you are not also currently logged into another instance of the Desktop Client).

If you do not want users to have access to the Remember Me option, so that they must log in each time, then you can disable the feature by setting the system configuration setting **ShowRememberMe** to **False**. This will hide the option from the various login screens. Keep in mind that if a user has already used the Remember Me option, hiding the setting will not clear the user's stored credentials. The user will continue to be remembered until they log out and cause their credentials to be cleared.

Filters

This section contains reference information for creating filter criteria statements. Security settings for file groups and tables can use filters to determine access.

Filter criteria syntax

Several areas of Axiom Capital Tracking use criteria statements to define a set of data. The syntax for these criteria statement is as follows:

Table.Column='Value'

- *Table* is the name of the database table.
- Column is the name of the column in the database table.
- *Value* is the value in the column.

If the column is String, Date, or DateTime, the value must be placed in single quotation marks as shown above. If the column is Numeric, Integer (all types), Identity, or Boolean, then the quotation marks are omitted.

For example:

- To filter data by regions, the filter criteria statement might be: DEPT.Region='North'. This would limit data to only those departments that are assigned to region North in the Region column.
- To filter data by a single department, the filter criteria statement might be: DEPT.Dept=100. This would limit data to only department 100.

If the table portion of the syntax is omitted, then the table is assumed based on the current context. For example, if the filter is used in an Axiom query, then the primary table for the Axiom query is assumed. If the current context supports *column-only syntax*, and the specified column is a validated key column, then the lookup table is assumed.

Operators

The criteria statement operator can be one of the following: =, >,<,<>,<=,>=. Greater than or less than statements can only be used with numeric values. For example:

ACCT.Acct>1000

SQL IN and LIKE syntax can also be used. For example:

```
DEPT.Region IN ('North','South')
```

Compound criteria statements

You can use AND and OR to combine multiple criteria statements. If you are creating long compound criteria statements with multiple ANDs or ORs, you can use parentheses to group statements and eliminate ambiguity. For example:

```
(DEPT.Region='North' OR DEPT.Region='South') AND (ACCT.Acct=100 OR ACCT.Acct=200)
```

NOTES:

- When filtering on multiple values in the same column, you must use OR to join the statements, not AND. In the example above, if the statement was instead DEPT.Region='North' AND DEPT.Region='South', that statement would return no data because no single department belongs to both the North and South regions. When you use OR, the statement will return departments that belong to either the North or the South regions.
- Alternatively, you can use the SQL IN syntax to create a compound statement for values in the same column. For example, the statement DEPT.Region='North' OR
 DEPT.Region='South' can also be written as DEPT.Region IN ('North', 'South').
 The Filter Wizard uses IN syntax by default.

Using criteria statements in functions

If you are using a criteria statement in a function, such as GetData, you must place the entire criteria statement in double quotation marks. For example:

=GetData("Bud1", "DEPT.Region='North'", "GL1")

You can also place the criteria statement in a cell and then use a cell reference in the function. In this case, you do not need to use double quotation marks in the function, unless you are concatenating text and cell reference contents within the function.

Referencing blank values in filters

If a string column contains a blank value, you may want to create a filter that includes or excludes records with these blank values. For SQL Server, the blank value is stored as an empty string. This empty string is indicated with empty quotation marks in the filter. For example: ACCT.CMAssign='' or ACCT.CMAssign<>''

If you use the Filter Wizard to construct the filter, it will automatically use the appropriate syntax.

Referencing values with apostrophes in filters

If a string column contains a value with an apostrophe (such as O'Connor), then that apostrophe must be escaped with another apostrophe so that it is not read as the closing apostrophe for the filter criteria statement. For example:

Dept.VP='O'Connor'

Invalid. This construction does not work because Axiom Capital Tracking reads it as Dept.VP='O' and then does not know what to do with the rest of the text.

Dept.VP='0''Connor'

Valid. The extra apostrophe tells Axiom Capital Tracking that the apostrophe is part of the string value and is not the closing apostrophe.

NOTE: This syntax must use two apostrophe characters in sequence and *not* a double quotation mark. If you create the filter using the Filter Wizard, Axiom Capital Tracking will construct the appropriate syntax for you.

Referencing Date or DateTime values in filters

If your locale uses a date format where the first value is the day, filters using that date or date-time value will not process correctly. Instead, the date or date-time value must be in standard format. Standard format is YYYY-MM-DDTHH:MM:SS for DateTime and YYYY-MM-DD for Date.

If you use the Filter Wizard to construct the filter, it will automatically convert the date or date-time value to the appropriate syntax.

Filter variables

Axiom Capital Tracking provides a set of filter variables that can be used in filter criteria statements throughout the software. Currently, these variables allow filtering based on the current user.

For example, you may have a column on a plan code table such as Dept.Owner, which contains user login names. When setting up plan file filters in security, you want each user to have a filter such as Dept.Owner='UserName'. Without using variables, you would need to set up each user with a user-level filter such as Dept.Owner='BSandstone', and so on. With variables, you can instead set up a single role-level filter such as Dept.Owner='{CurrentUser.LoginName}'. For each user in the role, this filter will be resolved using that user's login name.

Filter variables can be used in any place that takes a filter criteria statement. For example, you can use the variables to impact data queries in places such as Sheet Filters, Axiom query filters, Web Report data source filters, Quick Filter, and GetData functions. You can also use the variables in utilities such as Process Plan Files and Create Plan Files.

To use a filter variable, place the variable in curly brackets within the filter criteria statement. All other filter rules still apply—for example, if the variable will resolve to a string value such as a user name, the variable must be placed in single quotation marks. The filter must result in a valid filter criteria statement once the variable is resolved to its current value.

Variable	Resolved Value
{CurrentUser.EmailAddress}	The email address of the current user.
{CurrentUser.FirstName}	The first name of the current user.
{CurrentUser.LastName}	The last name of the current user.
{CurrentUser.LoginName}	The login name of the current user.
{CurrentUser.PrincipalID}	The database ID of the current user.
{CurrentUser.QualifiedLoginName}	The qualified login name of the current user (domain\username). If the user does not have a defined domain, the regular login name is used.

Updating the GLPeriod

To update the GLPeriod:

1. In the Cap Track Admin task pane, in the Administration section, click Administrative Utilities, and double-click GLPeriod Table Updates.

Administration
Purchase Request Drivers
💸 Dimension Maintenance
👻 🧀 Administrative Utilities
🖾 Dimensions Update Reports
CT Ref Table Update Reports
GLPeriod Table Updates
Other Utilities
🕨 퉬 Security Setup
🕨 퉲 Capital Tracking Data Diagrams
Process Flow Configuration
Build Imported Projects

- 2. In the FiscalMth field, type the fiscal month number.
- 3. In the **GLMonth** field, type the GL month.
- 4. After making your changes, in the Main ribbon tab, click Save.
- 5. At the confirmation prompt, click **OK**.

Assigning Project IDs for capital project tracking

Use the CT Assign ProjectID report to assign a unique Project ID for capital project tracking.

CT Ass PKG Capital Trac Filter: NONE	Ŭ	Project ID										
Input addition	al filter crit	eria here (ex. CPREQ20)	x.OrigBudgetTOT> = 5000)									
Sort: (asc)												
CAPREC	Entity	Department	Project Description	Project ID	Department Description	Save	Status	Status Comments	Original Budget	Budget Exceptions	Transfers	Adjusted Budget
四 167	1	10001	Angioplasty System, Angioplasty System	2018.001.10001.001	Security Test DEPT	No	Pending		0	0	0	
P 168	1	10001	Angioscope	2018.001.10001.002	Security Test DEPT	No	Pending		0	0	0	
P7 5	10	102002	General Construction, Dental Surgery Expansion	2017.010.102002.001	EMA Dental	No	Pending		968,000	0	(1,111)	966
P7 129	1	15300	Contingency, Test	2018.001.15300.001	EHS Other Revenue	No	Pending		20,000	0	(5,000)	15
27 128	1	15300	Angioscope, test	2018.001.15300.002	EHS Other Revenue	No	Approved		0	40,000	5,000	5
27 163	1	15300	Dialysate Conductivity Meter	2018.001.15300.003	EHS Other Revenue	No	Pending		0	0	0	
🗁 126	1	19000	Land Purchase, For New MOB	2017.001.19000.001	EHS Administration	No	Approved		0	1,000,000	1,000,000	1,000
E> 122	1	19000	Contingency, Main Campus Contingency Pool	KH_Contingency	EHS Administration	No	Pending		4,105,000	0	(1,134,250)	2,970

In this report, you can also view plan files by double-clicking the Folder icon in the column on the left side of the CAPREQ column.

To assign Project IDs for capital project tracking:

1. In the Cap Track Admin task pane, in the Administration section, click Administrative Utilities > Other Utilities, and double-click CT Assign ProjectID.

Administration						
Purchase Request Drivers						
🔀 Dimension Maintenance						
🕶 🧀 Administrative Utilities						
🔊 Dimensions Update Reports						
CT Ref Table Update Reports						
🖾 GLPeriod Table Updates						
🕶 퉬 Other Utilities						
CT Assign ProjectID						
CTREQ Table Update Utility						
POTRANS Table Update Utility						
🕨 🍌 Security Setup						
🕨 퉬 Capital Tracking Data Diagrams						
Process Flow Configuration						

- Build Imported Projects
- 2. Refresh the report data by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.

File	MAIN	HELP ADMI	N Ho	me					
Open App Menus •	? Online Help ▼	Navigation	Save	Refresh Data	Change View •	Drill	Additions	Quick Filter	→ GoTo
Application	s Help	File Opt	ions			Workbo	ok Options		

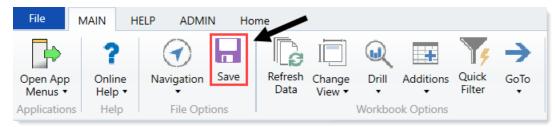
- Press F9.
- 3. Do one of the following:

Option	Description
Select projects to include in the report	a. In the Refresh Variables dialog, for each item to include, click Choose Value.
	 In the Choose Value dialog, select the values to include, and click OK.
	c. In the Refresh Dialog, click OK.
Include all projects in the report	In the Refresh Variables dialog, leave the fields blank, and click OK.

4. Complete the following columns, as needed:

Option	Description
Project ID	Type an identification number for the capital project.
Save	 Do one of the following: To save the Project ID changes to the database, select Yes. To not save the Project ID changes, select No.
Status	Update the status of the project to one of the following:ApprovedPendingDeclined
Status Comments	Type additional notes regarding this project.

5. After you finish making changes, in the Main ribbon tab, click Save.



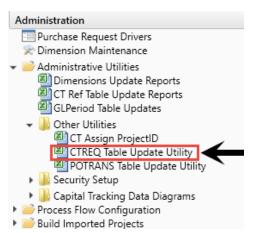
Updating the CTREQ table

Use CTREQ Table Update Utility to update any custom columns for capital projects that have been added to the CTREQ table.

		Table Up	odal	e Utility								
(HA Hea Capital T												
ilter: NO	ONE											
nput add	itional filte	er criteria here (ex. CTREC).OrigBudge	etTOT>=5000)								
Sort: (as	c)											
						e	Original	Budget		Adjusted	Purchase	
	CAPREQ	Project ID	Entity	Department	Project Description	Status	Budget	Exceptions	Transfers	Budget	Requests	Committed
0 0	124	2017.001.19000.001	1	19000	Land Purchase, For New MOB	Approved	-		1.000.000	1.000.000	-	
0 0	16	2017.001.26310.002	1	26310	Bed, Pediatric Cribs	Approved	32,000	(32,000)		32,000	-	32,000
0 0	17	2017.001.26310.003	1	26310	Ice Machine, Replacement for Dietary	Approved	4,000	(4,000)	-	4,000	-	4,000
0 0	19	2017.001.26310.005	1	26310	Incubator, Transport Incubator/ Isolette	Approved	120,000	(120,000)	-	120,000	-	120,000
0 13	21	2017.001.26350.001	1	26350	Monitor, Telemetry Transmitters	Approved	15,800	(15,800)	-	15,800	-	15,800
0 0	23	2017.001.26350.003	1	26350	Bed, CCU Beds	Approved	79,695	(79,695)	-	79,695	-	74,400
0 0	25	2017.001.26350.005	1	26350	Oximeter, Portable Pulse Oximeters	Approved	7,500	(7,500)	-	7,500	-	7,500
0 13	27	2017.001.26350.007	1	26350	Phototherapy Unit, Bili Soft Photo Therapy	Approved	8,000	(8,000)	-	8,000	-	8,000
0 0	29	2017.001.26430.002	1	26430	Incubator, Radiant Warmers	Approved	26,000	(26,000)	-	26,000	-	26,000
0 10	31	2017.001.26470.001	1	26470	Fetal Heart Detector, 12 Lead EKG Machine, MAC 5500	Approved	15,000	(15,000)	-	15,000	-	15,000
0 13	32	2017.001.26470.002	1	26470	Other General Medical, Bladder Scanner BVI 9400	Approved	18,000	(18,000)	-	18,000	18,000	
0 13	33	2017.001.26470.003	1	26470	Other General Medical, Blanket Warmer	Approved	35,400	(35,400)		35,400	-	35,400
	35	2017.001.26470.005	1	26470	Bed, Patient Beds	Approved	74,400	(74,400)	-	74,400	-	74,400
0 13	40	2017.001.26770.003	1	26770	Dosimeter, In Vivo Dosimetry	Approved	22,500	(22,500)	-	22,500	-	22,500
0 13	42	2017.001.26770.005	1	26770	Ultrasound Therapy Unit, Tip Confirmation System	Approved	20,000	(20,000)	-	20,000	-	20,000
60 13	45	2017.001.26780.002	1	26780	Monitor, Equipment for Pre/Post Area	Approved	207,740	(207,740)	-	207,740	207,740	-
0 0	47	2017.001.26780.004	1	26780	General Software, Flex Vision Lab 2	Approved	125,000	(125,000)		125,000	-	125,000
0 10	49	2017.001.26780.006	1	26780	Recorder, Cardiolab EP Recorder	Approved	105,000	(105,000)	-	105,000	-	105,000
	51	2017.001.26780.008	1	26780	Stimulator, EP Med Stimulator	Approved	20,000	(20,000)	-	20,000	-	20,000
0 1	53	2017.001.26790.002	1	26790	General Software, Electronic Whiteboard Tracking	Approved	34,000	(34,000)		34,000	-	34,000
0 12	55	2017.001.26790.004	1	26790	Monitor, Patient Monitors	Approved	96,000	(96,000)	-	96,000	-	96,000

To update the CTREQ table:

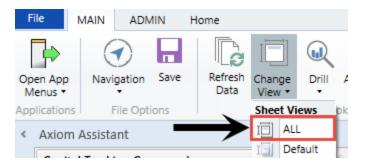
 In the Cap Track Admin task pane, in the Administration section, click Administrative Utilities > Other Utilities, and double-click CTREQ Table Update Utility.



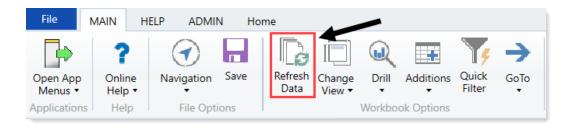
2. In the yellow input box in the header row, type the exact same name of the custom CTREQ column.

	REQ	Table Up	odat	e Utility								
Capital Tr	racking											
ilter: NO	NE											
nput addi	tional filte	r criteria here (ex. CTRE	Q.OrigBudge	TOT>=5000)								
ort: (ase	0											
	CAPREQ	Project ID	Entity	Department	Project Description	Status	Original Budget	Budget Exceptions	Transfers	Adjusted Budget	Purchase Requests	Committed
0 13	126	2017.001.19000.001	1	19000	Land Purchase, For New MOB	Approved	-	1,000,000	1,000,000	1,000,000		
80	7	2017.001.19150.001	1	19150	General Software, ICU Software	Approved	1,600,000	-	(500)	1,599,500	-	-
0 13	15	2017.001.26310.001	1	26310	Monitor, Transport Monitor for Patient Sedations	Pending	20,000	-	-	20,000		
5 O	16	2017.001.26310.002	1	26310	Bed, Pediatric Cribs	Approved	32,000			32,000		54,000
20	17	2017.001.26310.003	1	26310	Ice Machine. Replacement for Dietary	Approved	4.000	-	-	4.000	-	4.000

3. To show additional columns for input, in the Main ribbon tab, in the Workbook Options group, click Change View > All.



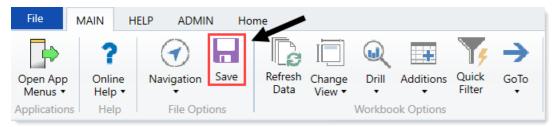
- 4. Refresh the data in the utility by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 5. In the **Refresh Variables** dialog, click **Choose Value** to select the items to include in the report or leave the fields blank to return all the results for all items, and click **OK**.
- 6. To filter for additional criteria, at the top of the screen, enter the criteria in the **Input additional** filter criteria here cell.

	EQ	Table Up	odat	e Utility									
PKG Capital Tra	ckina												
	-					_							
Filter: NO		r criteria here (ex. CTRE	o de la Russiana	TOT 5000)									
Sort: (asc)		a criteria nere (ex. Crice	2.Ortgbuaget	101>=3000)									
son: (asc)													
с	APREQ	Project ID	Entity	Department	Project Description		Status	Original Budget	Budget Exceptions	Transfers	Adjusted Budget	Purchase Requests	Committed
	126	2017.001.19000.001	1	19000	Land Purchase, For New MOB		Approved		1,000,000	1,000,000	1,000,000		
6 O	7	2017.001.19150.001	1	19150	General Software, ICU Software		Approved	1,600,000	-	(500)	1,599,500	-	
20 20 20				26310	Monitor, Transport Monitor for Patient Sedations		Pending	20,000	-	-	20,000		
20	15	2017.001.26310.001											
0	15 16	2017.001.26310.001 2017.001.26310.002	1	26310	Bed, Pediatric Cribs		Approved	32,000	-	-	32,000		54,000

7. After you are done making changes, in the Main ribbon tab, click Save.



8. To view the project details for each capital project, double-click the folder icon in the far left column of the utility.

СТ	REQ	Table Up	odat	e Utility								
KG apital	Tracking											
ilter: N	IONE											
put ad	ditional filt	er criteria here (ex. CTREC	Q.OrigBudge	tTOT>=5000)								
ort: (a	isc)											
/	CAPREQ	Project ID	Entity	Department	Project Description	Status	Original Budget	Budget Exceptions	Transfers	Adjusted Budget	Purchase Requests	Committed
> 0	126	2017.001.19000.001	1	19000	Land Purchase, For New MOB	Approved	-	1,000,000	1,000,000	1,000,000		
> 0	7	2017.001.19150.001	1	19150	General Software, ICU Software	Approved	1,600,000	-	(500)	1,599,500		
2 0	15	2017.001.26310.001	1	26310	Monitor, Transport Monitor for Patient Sedations	Pending	20,000	-	-	20,000		
20	16	2017.001.26310.002	1	26310	Bed, Pediatric Cribs	Approved	32,000			32,000		54,000
	17	2017.001.26310.003		26310	Ice Machine. Replacement for Dietary	Approved	4.000			4.000		4.000

Updating the POTRANS table

Use the POTRANS Table Update Utility to update any custom columns for capital projects that have been added to the POTRANS table.

PO	TRAN	NS Table U	pdate	Utility					
KHA Hea Capital T									
Filter: NC	DNE								
Innut addi	itional filter	criteria here (ex. CTREO.Orial	udaetTOT > = 500	ດາ					
Sort: (as		citicita nere (car erne grorige	augerror	~					
oora (as	~								
	POTRANS	Project ID	Entity	Department	Project Description	Purchase Request ID	Purchase Request Notes	Requested	Committee
00	68	2017.001.19000.001	1	19000	Land Purchase. For New MOB	PR.2017.001.19000.001.001		0	a
00	69	2017.001.19000.001	1	19000	Land Purchase, For New MOB	PR.2017.001.19000.001.013		0	0
00	67	2017.001.19150.001	1	19150	General Software. ICU Software	PR.2017.001.19150.001.001		0	0
00	5	2017.001.26310.002	1	26310	Bed. Pediatric Cribs	PR.2017.001.26310.002.001	Pediatric Cribs	0	32.000
0 0	6	2017.001.26310.003	1	26310	Ice Machine, Replacement for Dietary	PR.2017.001.26310.003.001	Ice Machine	0	4,000
00	7	2017.001.26310.005	1	26310	Incubator, Transport Incubator/ Isolette	PR.2017.001.26310.005.001	Transport Incubator/ Isolette	0	120.000
0 0	8	2017.001.26350.001	1	26350	Monitor, Telemetry Transmitters	PR.2017.001.26350.001.001	Telemetry Transmitters	0	15,800
00	9	2017.001.26350.003	1	26350	Bed, CCU Beds	PR.2017.001.26350.003.001	CCU Beds	0	74,400
0 0	10	2017.001.26350.005	1	26350	Oximeter, Portable Pulse Oximeters	PR.2017.001.26350.005.001	Portable Pulse Oximeters	0	7,500
00	11	2017.001.26350.007	1	26350	Phototherapy Unit, Bili Soft Photo Therapy	PR.2017.001.26350.007.001	Bili Soft Photo Therapy	0	8,000
0 0	12	2017.001.26430.002	1	26430	Incubator, Radiant Warmers	PR.2017.001.26430.002.001	Radiant Warmers	0	26,000
0 0	13	2017.001.26470.001	1	26470	Fetal Heart Detector, 12 Lead EKG Machine,	V PR.2017.001.26470.001.001	12 Lead EKG Machine, MAC 5500	0	15,000
0 13	14	2017.001.26470.002	1	26470	Other General Medical, Bladder Scanner BVI	9 PR.2017.001.26470.002.001	Bladder Scanner BVI 9400	18,000	0
00	15	2017.001.26470.003	1	26470	Other General Medical, Blanket Warmer	PR.2017.001.26470.003.001	Blanket Warmer	0	35,400
0 13	16	2017.001.26470.005	1	26470	Bed, Patient Beds	PR.2017.001.26470.005.001	Patient Beds	0	74,400
00	17	2017.001.26770.004	1	26770	Other General Medical, Prone Breast Board	PR.2017.001.26770.003.001	In Vivo Dosimetry	0	22,500
0 0	18	2017.001.26770.006	1	26770	Other General Medical, Prone Breast Board	PR.2017.001.26770.005.001	Tip Confirmation System	0	20,000
00	19	2017.001.26780.004	1	26780	General Software, Flex Vision Lab 2	PR.2017.001.26780.002.001	Equipment for Pre/Post Area	207,740	0
0 0	20	2017.001.26780.006	1	26780	Recorder, Cardiolab EP Recorder	PR.2017.001.26780.004.001	Flex Vision Lab 2	0	125,000
00	21	2017.001.26780.008	1	26780	Stimulator, EP Med Stimulator	PR.2017.001.26780.006.001	Cardiolab EP Recorder	0	105.000

To update the POTRANS table:

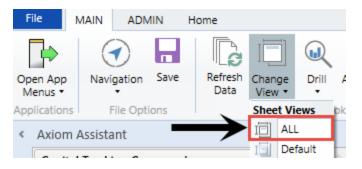
1. In the Cap Track Admin task pane, in the Administration section, click Administrative Utilities > Other Utilities, and double-click POTRANS Table Update Utility.

Administration
Purchase Request Drivers
💸 Dimension Maintenance
👻 🧀 Administrative Utilities
🕘 Dimensions Update Reports
🕘 CT Ref Table Update Reports
🐸 GLPeriod Table Updates
🕶 퉬 Other Utilities
🖾 CT Assign ProjectID
CTREO Table Update Utility
POTRANS Table Update Utility
🕨 🎍 Security Setup
🕨 퉲 Capital Tracking Data Diagrams
Process Flow Configuration
Build Imported Projects

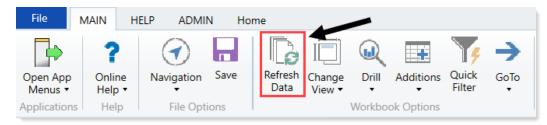
2. In the yellow input box in the header row, type the exact same name of the custom POTRANS column.

-										
PC	IANT	VS Table U	pdate	Utility						
PKG Capital	Tracking									
Filter: N	NONE							-		
Input ad	ditional filter	criteria here (ex. CTREQ.OrigE	RudgetTOT>=500	0)						
Sort: (a	asc)							V		
	POTRANS	Project ID	Entity	Department	Project Description	Purchase Request ID	Purchase Request Notes		Requested	Committed
0	67	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.001	0		0	0
00	70	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.015			0	0
00	71	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.016	0		0	0 _
00	72	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.017			0	0
00	81	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.026			0	0
00	82	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.027	0		0	0
e o	83	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.028			0	0

3. To show additional columns for input, in the Main ribbon tab, in the Workbook Options group, click Change View > All.



- 4. Refresh the data in the utility by doing one of the following:
 - In the Main ribbon tab, in the Workbook Options group, click Refresh Data.



- Press F9.
- 5. In the **Refresh Variables** dialog, click **Choose Value** to select the items to include in the report or leave the fields blank to return all the results for all items, and click **OK**.
- 6. To filter for additional criteria, at the top of the screen, enter the criteria in the **Input additional** filter criteria here cell.

POT	RAN	IS Table U	pdate	Utility					
PKG									
Capital Tra	acking								
Filter: NO	NE								
Input addit	ional filter	criteria here (ex. CTREQ.OrigE	RudgetTOT>=5000)	\leftarrow					
Sort: (asc))			_ `					
P	OTRANS	Project ID	Entity	Department	Project Description	Purchase Request ID	Purchase Request Notes	Requested	Committed
00	67	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.001	0	0	0
00	70	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.015		0	0
0 0	71	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.016	0	0	0 -
0 12	72	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.017		0	0
0 12	81	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.026		0	0
0 0	82	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.027	0	0	0
0 0	83	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.028		0	0

7. After you are done making changes, in the Main ribbon tab, click Save.

File	MAIN H	ELP ADMIN	Hor	me					
Open App Menus •	? Online Help ▼	Navigation	Save	Refresh Data	Change View •	Drill	Additions	Quick Filter	→ _{GoTo}
Applications	Help	File Optio	ns			Workbo	ok Options		

8. To view the project details for each capital project, double-click the folder icon in the far left column of the utility.

PO	TRA	VS Table U	pdate	Utility					
PKG Capital	Tracking								
Filter: N	IONE								
nput ad	ditional filter	criteria here (ex. CTREQ.OrigE	udgetTOT>=500	0)					
ort: (a	isc)								
	POTRANS	Project ID	Entity	Department	Project Description	Purchase Request ID	Purchase Request Notes	Requested	Committe
0	67	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.001	0	0	
30	70	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.015		0	
3 0	71	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.016	0	0	
> 0	72	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.017		0	
> 0	81	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.026		0	
> 0	82	2017.001.19150.001	1	19150	General Software, ICU Software	PR.2017.001.19150.001.027	0	0	
	83	2017.001.19150.001		19150	General Software, ICU Software	PR.2017.001.19150.001.028			

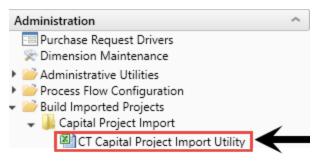
Importing capital projects

Use the CT Capital Project Import Utility to import a set of projects into Axiom Capital Tracking.

KHA He		roject Import	t Utility (*) Denotes Field Is Required for Save Clear Data on Save: Yes					
Entity*	Department*	Project ID*	Project Type*	Project Type Detail*	Creator*	Short Description (50 characters)*	Long Description (250 characters)	Project Justification (500 cha

To import capital projects:

 In the Cap Track Admin task pane, in the Administration section, click Administrative Utilities > Build Imported Projects > Capital Project Import, and double-click CT Capital Project Import Utility.



- 2. In the Clear Data on Save field at the top of the page, select Yes to clear the data when you save.
- 3. Complete all of the applicable columns with capital project information.

NOTE: To save the utility, you must enter information in columns with an asterisk (*).

4. When you are done making changes, in the Main ribbon tab, click Save.

