onestream

Analytic Drill Down (formerly DrillIt) Guide

PV7.3.0 SV132

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Solution Overview

OneStream Analytic Drill Down (formerly DrillIt), OneStream's Advanced Cube Drill, streamlines and enhances users' ability to execute ad hoc analysis directly from OneStream cube data and variances.

With OneStream Analytic Drill Down, you can:

- Intuitively drill into cube data and variances with just one click.
    - Slice data by up to 7 dimensions at once.
    - Drill on dynamic members (not currently supported in native OneStream drill).
    - Drill down into any OneStream Analytic Drill Down intersection to view source system records, if separately configured.
- Quickly change the view of the data with commonly used drill options, such as:
    - Expansion type: Tree, base, children, or grandchildren.
    - Sort: Ascending, descending, absolute Values, or none.
    - Scale: Whole, thousands, millions.
    - Member view: Member name, description, or both.
- Perform robust ad-hoc variance analysis directly in OneStream.
    - Compare the current POV to a different scenario and time.
    - View variances in amounts or percentages.
    - Sort on variance amounts.
- Perform Trend analysis on any OneStream Analytic Drill Down intersection.

    - Choose between various Time expansions.
    - Visualize trends with a bar or line chart.
- View OneStream Analytic Drill Down data in a matrix format where rows and column dimension type and member can be fully customized.
- Save often used POVs to access commonly used points of view quickly and easily.
- View the details of data loaded through stage, forms, and journals all in one place.
- Export the entire drill analysis to Excel in one click.
- Install and configure with existing cube views in minutes.

Installation and Initial Setup

This section contains key details about the solution's planning, configuration, and installation. Before you install the solution, familiarize yourself with these details.

Dependencies

Component	Description
OneStream 7.3.0 or later	Minimum OneStream Platform version required to install this version.

Solution Development Location

Before beginning installation, decide whether to build the solution directly in the Production OneStream application or a separate Development OneStream application. This section provides some key considerations for each possibility.

Production OneStream Application: The primary advantage of building the solution in a Production application is that you will not have to migrate the resulting work from a Development application. However, there are intrinsic risks when making design changes to an application used in a Production capacity and not advised.

> **NOTE:** OneStream strongly recommends that you implement the solution in the Development environment with a fresh copy of the Production application before starting work.

Development OneStream Application: As a best practice, use the Development OneStream application to configure and test the solution initially.

Installation

1. Log into OneStream.
2. On the **Application** tab, click **Tools** > **Load/Extract**.
3. On the **Load** tab, find the solution package using the **Select File** icon and click **Open**.
4. When the solution file name appears, click **Load**.
5. Click **Close** to complete the installation.

Package Contents

OneStream Analytic Drill Down Solution Administration is the user interface for the settings and setup of OneStream Analytic Drill Down.

Business Rules

The following Business Rules are included:

- FACD_CompTime
- FACD_Constants
- FACD_CubeAttributeProperties
- FACD_CubeViewHeaderText
- FACD_CubeViewMaint
- FACD_DrillHelper

- FACD_DrillPOVParams
- FACD_DrillTempTable
- FACD_DrillToSourceInfo
- FACD_DrillTrends
- FACD_FormJEData
- FACD_FormulaHelper
- FACD_GlobalRoutines
- FACD_HelperQueries
- FACD_ImpactingJournalsData
- FACD_Licensing
- FACD_MatrixDrill
- FACD_ParamHelper
- FACD_Settings
- FACD_Setup
- FACD_SolutionHelper
- FACD_SourceConnectors
- FACD_StageDetailData
- FACD_StageSummaryData
- FACD_TaskResultHelper
- FACD_TempTableDimensionMapping
- FACD_Utilities

Cube Views

The Cube View Group, Finit Advanced Cube Drill (FACD), includes 89 Cube Views ending with the suffix **FACD**.

Metadata Members

The following Metadata members will be created upon completion of the Setup Process:

- FACD_VarAMT
- FACD_VarPCT

These members are dynamic members, so that no data will aggregate.

Data Structures

OneStream Analytic Drill Down installs and utilizes one custom table to store source system connection information. The table name is “XFW_FACD_SourceConnectors” with the following fields and associated data type:

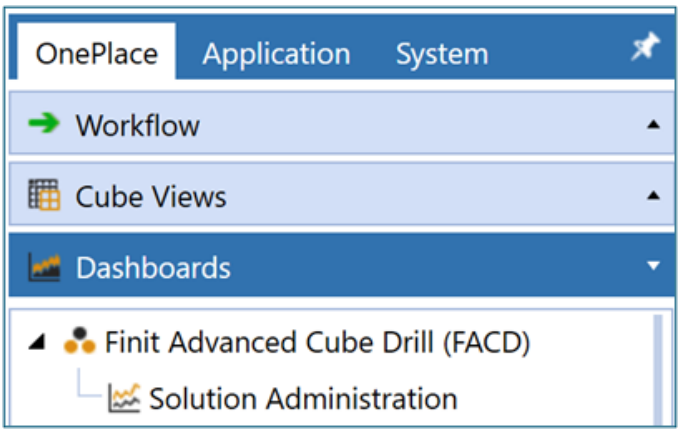
- Id (guid)
- Name (nvarchar50)
- Description (nvarchar255)
- DashboardName (nvarchar100)
- RecordLimit (int)
- Enabled (bit)
- BtnOrder (nvarchar10)

- UserName (nvarchar250)
- TimeStamp (datetime)

Initial Setup

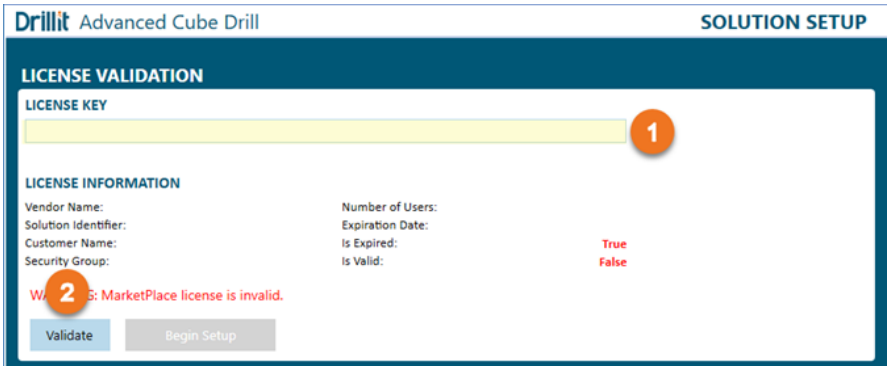
You are guided through the solution setup process the first time you run the solution.

In OneStream, click **OnePlace** > **Dashboards** > **Finit Advanced Cube Drill (FACD)** > **Solution Administration**.



License Validation

1. Enter a valid license key obtained from the OneStream Partner Solution team.
2. Click the **Validate** button.

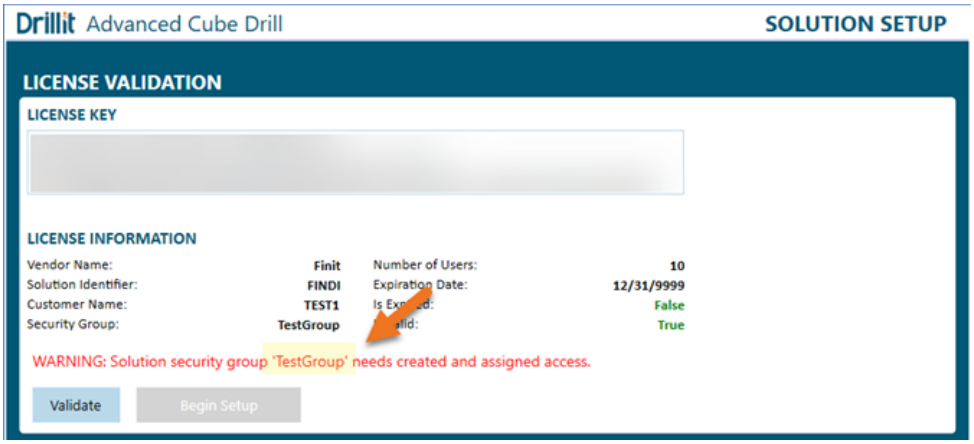


3. The “Begin Setup” button will be enabled if the license key is valid. Click Begin Setup to begin using OneStream Admin Assist. If the license is not successfully validated, follow the troubleshooting steps below.

License Validation Troubleshooting

The solution license could be invalid for the following reasons:

- Solution Security Group



  - If you have not already created the required solution security group, do so now and assign the user access to clear this validation error and begin setup.
  - Take note of the security group name from the license information section below and create a security group with that exact name and case.
  - Next, add the necessary users to this group and click the Validate button again.
  - To launch OneStream Analytic Drill Down, the active user installing the solution needs access, and any further changes to security can be made after the initial setup is complete.

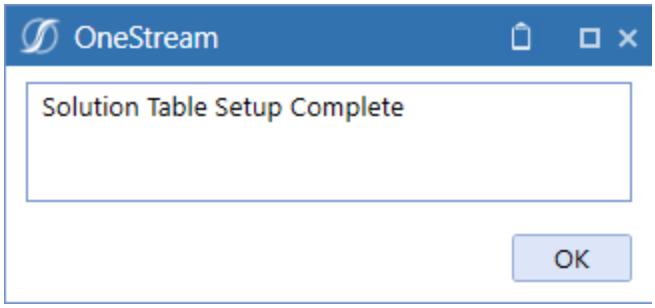
- License Is Expired
  - To extend your license, please contact OneStream Support, Support - OneStream Software.

- Exceeded Number of Users
    - Ensure the number of users assigned to the Solution Security Group is less than or equal to the number of users specified on your license.
    - If you need to change the number of licensed users, please contact OneStream Support, Support - OneStream Software.
- Key Is Invalid
    - Confirm the full license has been correctly entered and matches the license key provided. If there are still issues, please contact OneStream Support, Support - OneStream Software.

Solution Setup Steps

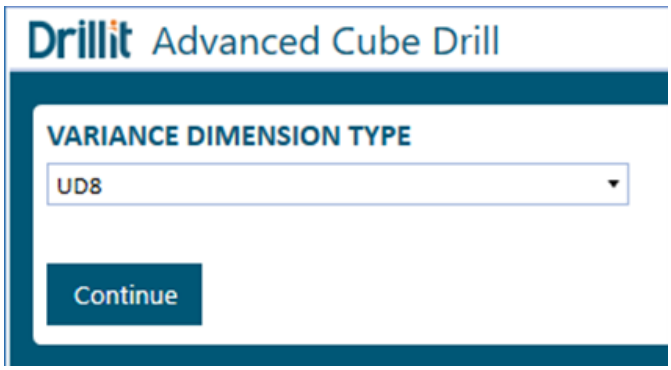
After validating your license key, click “Setup Tables” from Step 1 below to create necessary custom tables and perform any necessary schema updates.

Once this process is complete, a dialog box displays.



Next, click “Setup Metadata” from Step 2. This step involves creating the necessary solution metadata. This metadata is required for the out-of-the-box Variance Analysis to function correctly.

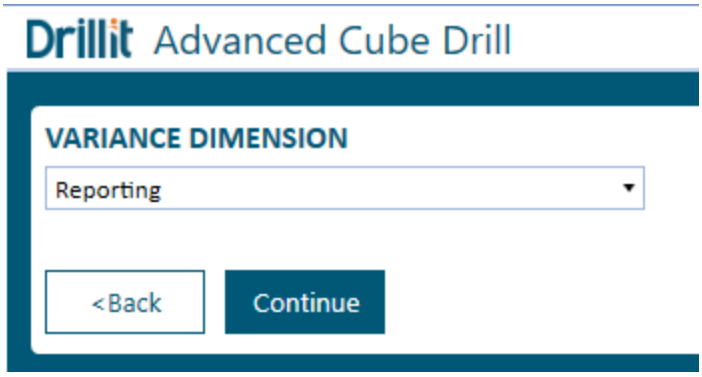
1. Select **Variance Dimension Type** from the drop-down, then **Continue**.



The dimension type selected in this step will allow a specific dimension to be chosen in the next step.

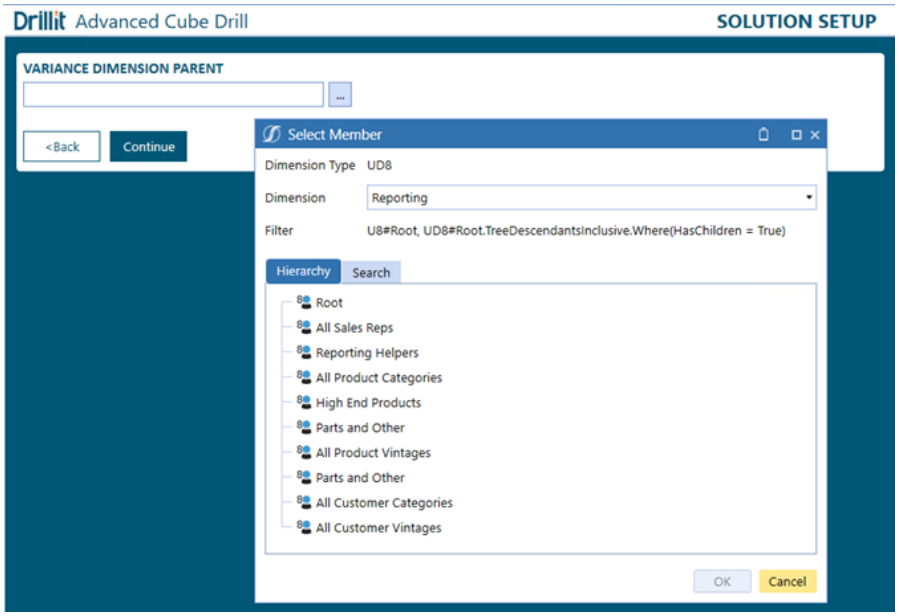
> **NOTE:** OneStream recommends using UD8, assuming the best practice of using this dimension for dynamic calculations is followed, and no metadata that would need to be drilled exists there.

2. Select **Variance Dimension** from the drop-down menu, then **Continue**.



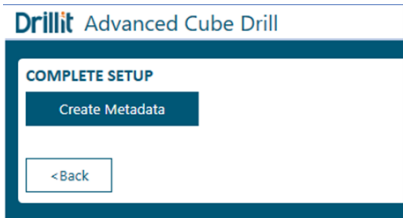
3. Select **Variance Dimension Parent** to designate the parent member of the required solution metadata members, then **Continue**.

> **NOTE:** Only parent members from the selected dimension will be displayed.

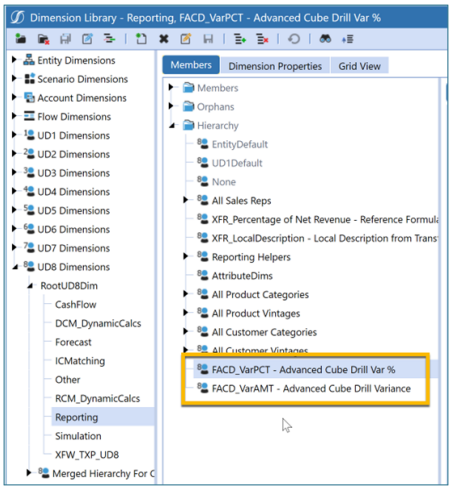


> **NOTE:** OneStream recommends selecting 'Root' as the parent if there is no other appropriate parent member.

4. Click **Create Metadata** to create the required solution metadata and to open the OneStream Analytic Drill Down Settings page.



- After a successful installation, the solution will automatically switch to the Solution Administration dashboard.
- Confirm successful metadata creation by navigating to the OneStream Dimension Library. The metadata members chosen during setup will now be visible in the dimension.



Settings and Configuration

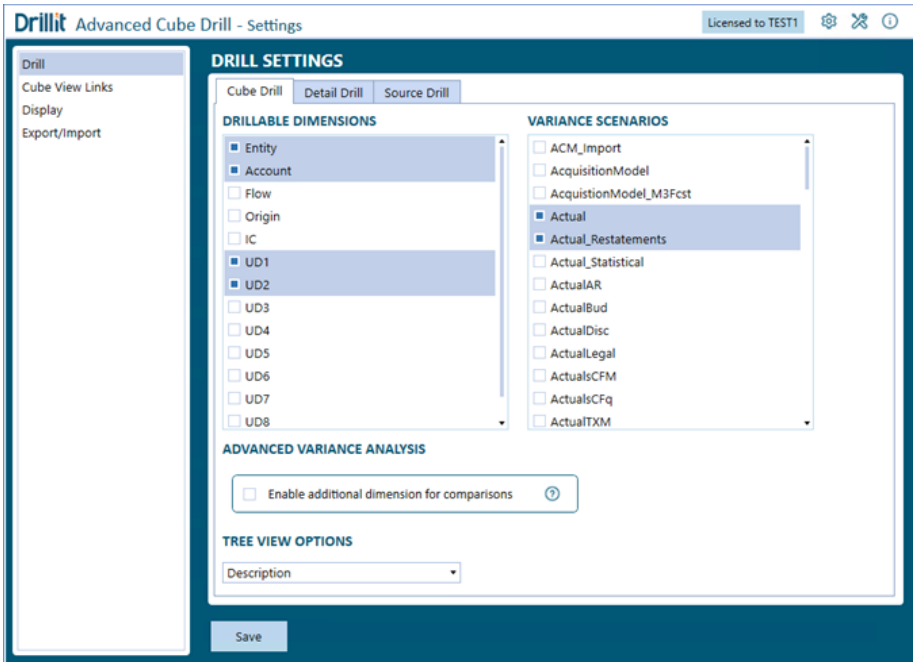
This section contains key details about the solution's settings and configuration.

Drill Settings

This section contains information about the solution's drill settings.

Cube Drill

These settings will control which dimensions are available for users to drill into, what scenarios can be chosen for comparison for the Variance Drill option, and what settings for advanced variance analysis are used. Administrators can change these settings at any time.



Drillable Dimensions

These settings allow the Administrator to control which dimensions are available for users to drill into for the Dimension-Based Selection options.

> **NOTE:** For the UDs, the solution will display the UD Descriptions assigned in the Application Properties for the Dimensions. For example, If UD1 is designated 'Department,' then 'Department' will appear in the solution for users to select the dimension. If no description is assigned to a UD, then the UD Name will appear.

Variance Scenarios

For the Variance Drill option, this setting controls which Scenarios are available for comparison.

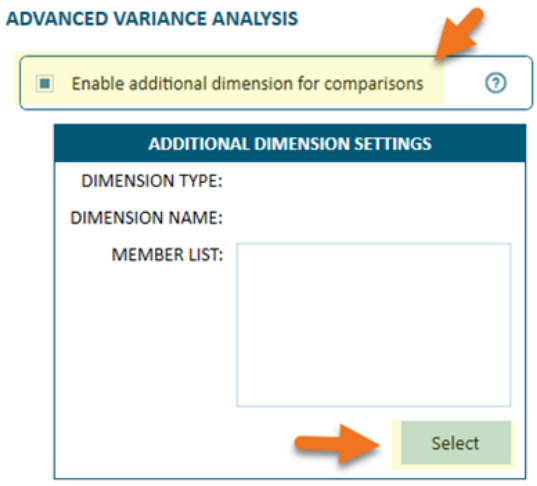
> **NOTE:** This may be a point where there will be regular maintenance.

If the comparison Scenarios include Time specific parts of the naming convention (for example, Budget2022 or FCST2022M8), when those Scenarios are created, they will need to be added here to be available for comparison.

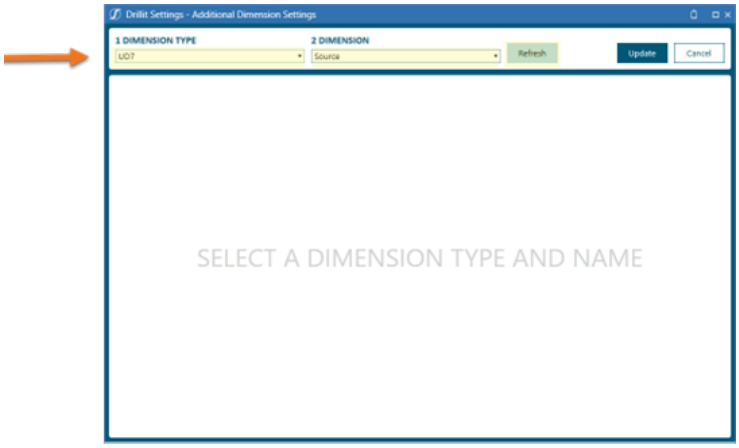
Advanced Variance Analysis

By default, OneStream Analytic Drill Down uses the Flow and UD member from the main POV in the comparison column, when active. This is because in most cases the desire is to compare the same members for these dimensions between the base and comparison column. However, in some cases there is a need to select a different Flow or UD member for the comparison column. For example, some applications use a Flow or UD member to calculate constant currency values. In such cases, you can use a Flow or UD member in the comparison column that matches the FX rate used in the base column. If a situation like this exists, and you want to have independent control overflow or UD members in the comparison column, OneStream Analytic Drill Down provides the ability to select a dimension and members to pivot during OneStream Analytic Drill Down analysis. Follow these steps to set up a group of members using the “Enable additional dimension for comparison” setting.

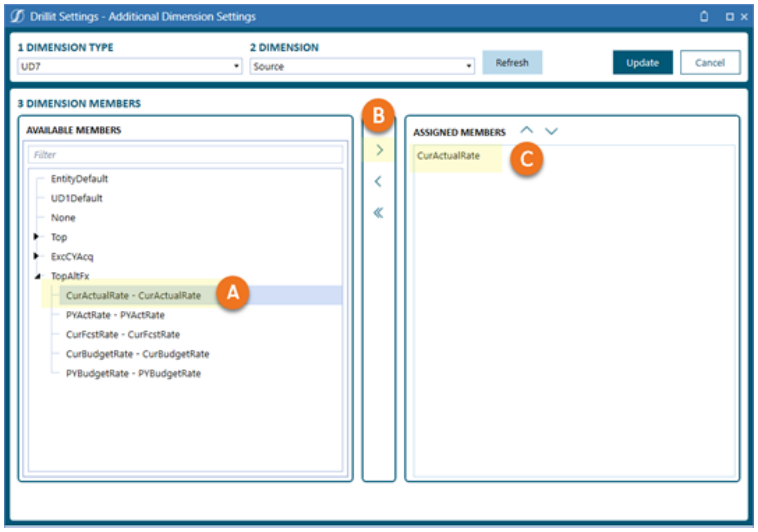
1. Select the “Enable additional dimension for comparison” checkbox and then click the **Select** button to launch a pop-up window to select the members you wish to pivot in the comparison column.



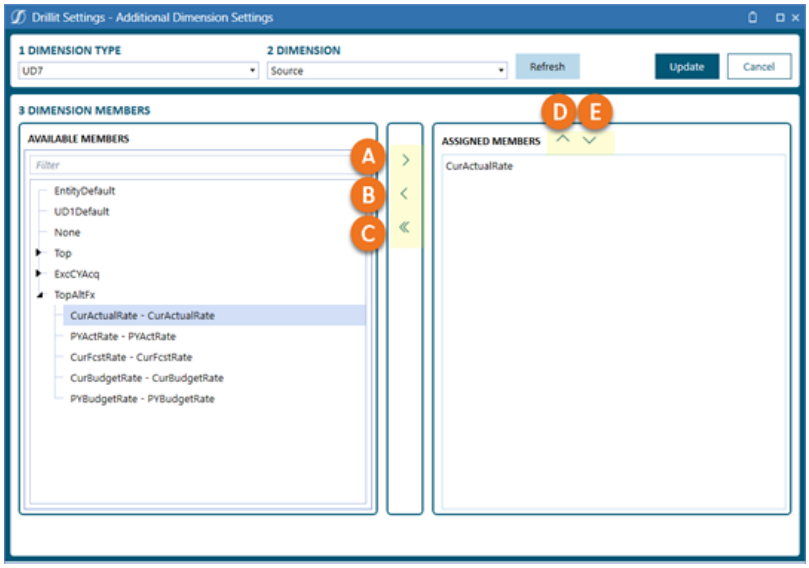
2. In the new pop-up window, select the dimension type and dimension name that contains the member or members you want to add. Then click “Refresh”.



3. Next, find the member or member you want to add. Select the member (A) and click the first button in the middle of the screen (B) to move the member to the right column representing your list of assigned members (C).



Finish building your list by selecting individual members and moving them to your assigned list in the column on the right. To manage adding, removing, and reordering members, use the buttons below:



A. After selecting an available member, move an individual member from the available list to the assigned member list.

B. Select an assigned member from the list and remove from the list.

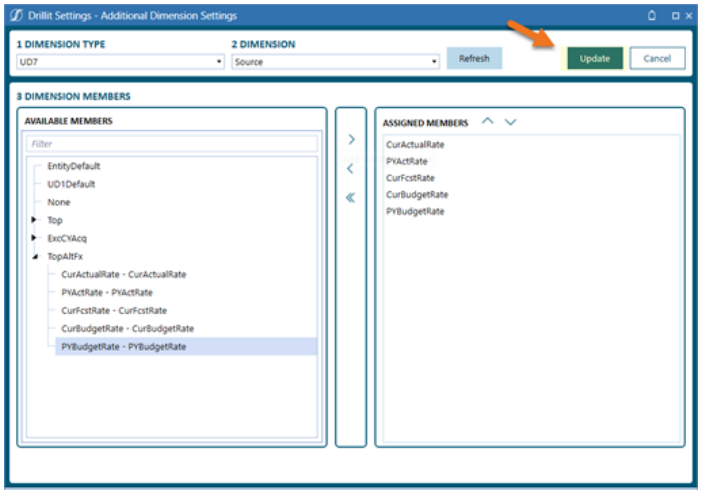
C. Remove all assigned members.

D. Move selected assigned member up in the list order.

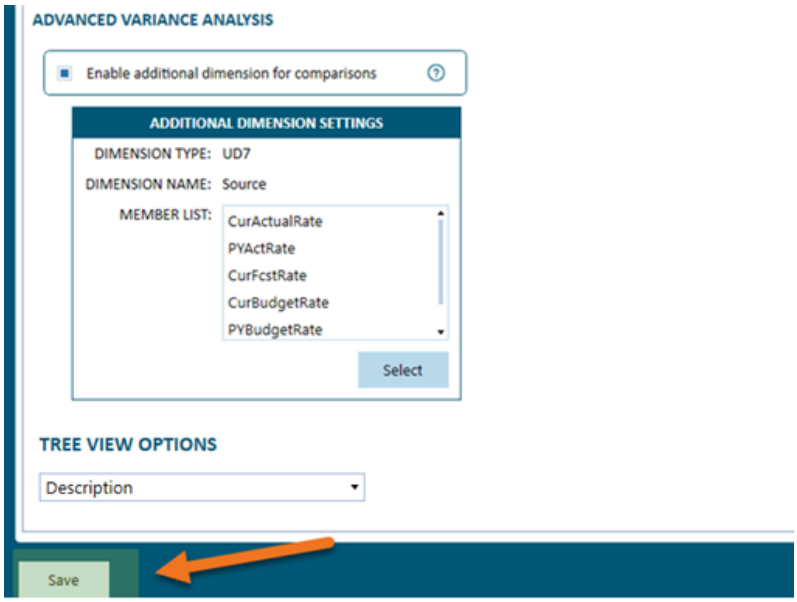
E. Move selected assigned member down in the list order.

4. Once your list of assignment members is complete, click the **Update** button.

> **NOTE:** Your data will not be permanently saved until you complete the next step.

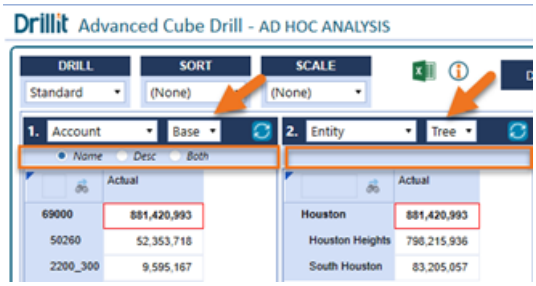


5. Click **Save** to permanently save your new settings.



Enable Tree Drill Name and Description (Optional)

In the solution, an expansion option for each panel is available to show members' Name, Description, or both Name and Description in the panels while drilling. This option is not available for the Tree drill option due to certain technical limitations.

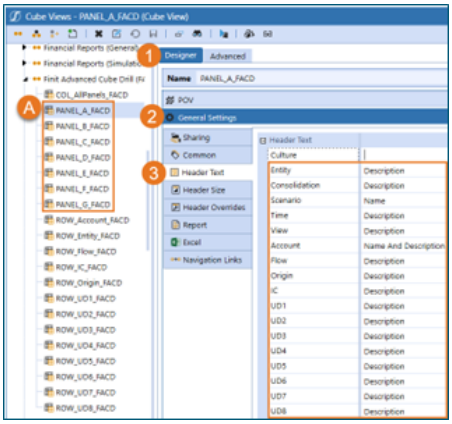


However, the Administrator can configure the drill panels to show one of these options when 'Tree' is selected based on the dimension.

An Administrator can update these settings by navigating to **Application** \ **Cube Views** \ then the **Finit Advanced Cube Drill (FACD)** Cube View group, which will show the seven Cube View Panels used in the solution (Box 'A' in the Screenshot below).

To edit the settings:

1. Go to 'Designer' for the selected Cube View Panel
2. Select 'General Settings'
3. Select 'Header Text', then edit the settings for each dimension for how you would like them displayed when the 'Tree' Expansion option is selected.



> **NOTE:** It is recommended that the settings are configured the same for all 21 cube views, so users have a consistent experience as they drill and select dimensions for each panel.

This should be a one-time configuration step when initially setting up this solution. However, Administrators could change these settings whenever they deem it necessary.

To change the tree view settings, follow the below steps for all cube views, also noted below, of which a subsection is shown above in A.

1. For each cube view, select the Designer Tab.
2. Under General Settings, select Header Text.
3. Update fields Entity through UD8 with the desired header text format.

Complete list of Cube Views to modify:

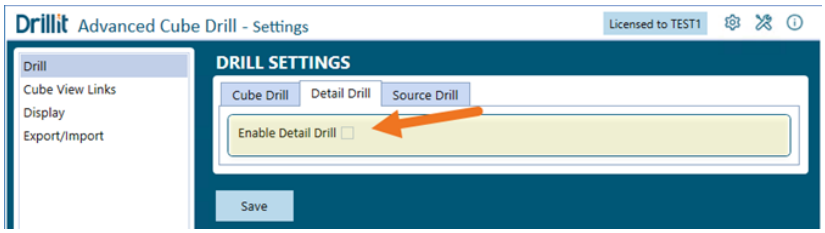
- PANEL_A_FACD
- PANEL_B_FACD
- PANEL_C_FACD
- PANEL_D_FACD
- PANEL_E_FACD
- PANEL_F_FACD
- PANEL_G_FACD
- COL_Matrix_Account_FACD
- COL_Matrix_Entity_FACD
- COL_Matrix_Flow_FACD
- COL_Matrix_IC_FACD

- COL_Matrix_Origin_FACD
- COL_Matrix_UD1_FACD
- COL_Matrix_UD2_FACD
- COL_Matrix_UD3_FACD
- COL_Matrix_UD4_FACD
- COL_Matrix_UD5_FACD
- COL_Matrix_UD6_FACD
- COL_Matrix_UD7_FACD
- COL_Matrix_UD8_FACD
- PANEL_X_Trends_FACD

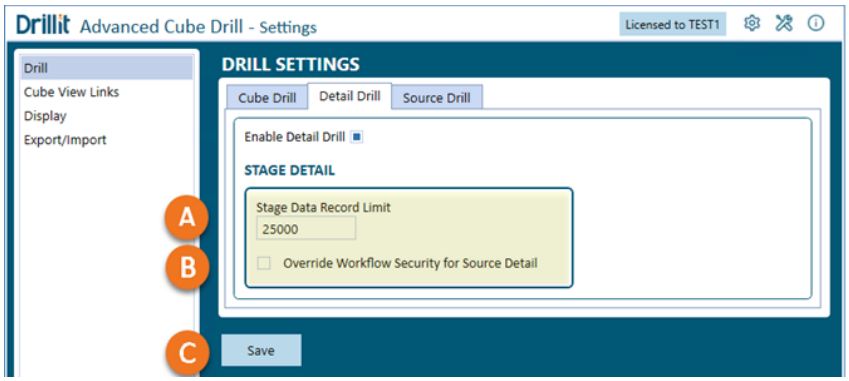
Detail Drill Settings

By default, “Drill to Detail” functionality allowing for access to a POV’s stage, form, and journal details, is disabled for all users. To enable “Drill to Detail” functionality for all users, follow the steps below:

1. Click the “Enable Detail Drill” checkbox.



2. Select or confirm a record limit when retrieving data from the stage database (A), select if you want to override workflow security when viewing source details (B) and then click “Save” (C) to save your settings.



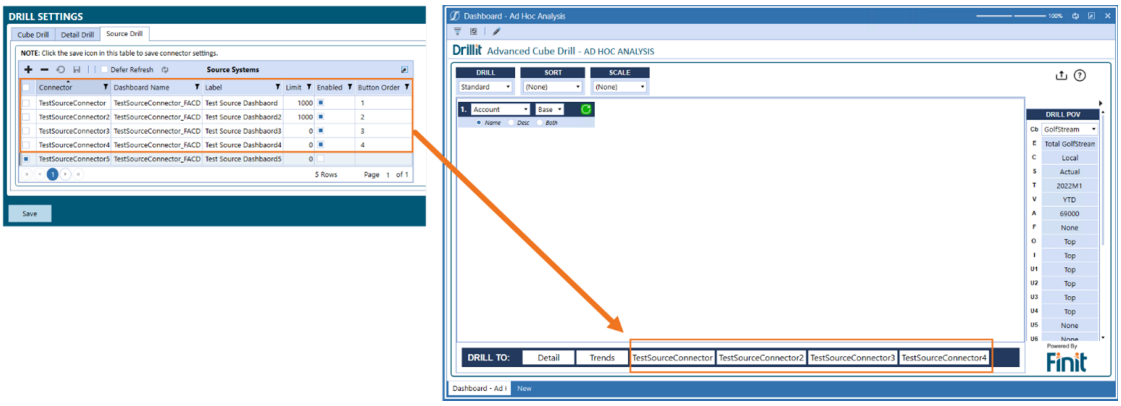
   a. The default for this setting is 25,000, which means that only the first 25,000 records from stage will be retrieved when performing a Drill to Detail query. This setting prevents potential performance issues when drilling from a very high level (i.e. Top Account, Entity, etc.) and pulling back massive amounts of records. To enable unlimited records, you can leave this field blank.

b. From the main “Drill to Detail” dashboard, users have the option to view source and target stage details for the selected point-of-view. By default, OneStream Analytic Drill Down enforces the same level of security as OneStream’s native drill functionality which is to allow users to see source details only for those import workflows for which a user has access. If you wish to change this and allow users to see source details based on their overall access to the point of view, rather than workflow access, then enable this checkbox. With this option enabled, a user will be able to see source details if they can initially drill into the point-of-view, regardless of their workflow access.

c. Click “Save” to save your settings.

Source Drill

To provide additional drill detail, OneStream Analytic Drill Down supports customized connections to source systems created separate from the solution. The Source Drill settings are used to manage these connections. See Creating a Source Drill Connection section for further details on how to create and manage a connection.



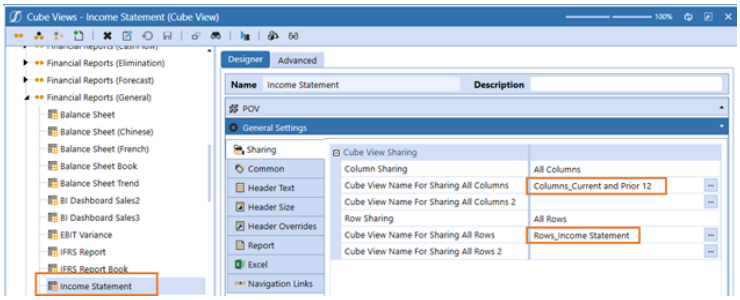
Cube View Links and Configuration

The tool needs to be enabled at the Cube View level, and there are some basic settings to select, which this section will walk through. Consider these items with new development and your OneStream solutions processes.

Cube Views with Shared Rows and Columns

For a Cube View with shared rows or columns to be used with OneStream Analytic Drill Down, a OneStream Analytic Drill Down link needs added to all shared Cube Views as well as the main Cube View. In the example below, a OneStream Analytic Drill Down link would need to be added to Cube Views “Income Statement”, “Columns_Current and Prior 12” and “Rows_Income Statement”.

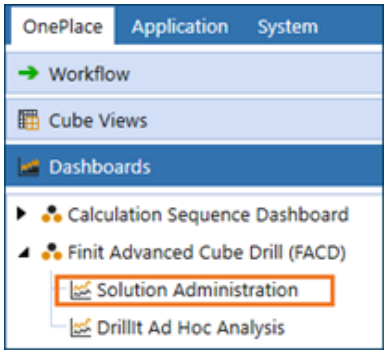
> **NOTE:** This only applies to adding links manually as the Bulk Cube View Maintenance process will detect these additional shared Cube Views and automatically add a link to those as well as the main Cube View.



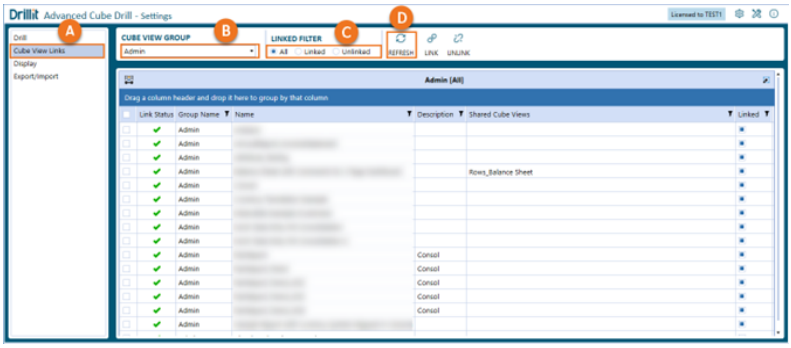
Bulk Cube View Maintenance

This setting can be used to manage enabling and disabling OneStream Analytic Drill Down on Cube Views in most cases. Use this solution to automate the application of Option 1, under “Cube View Settings” below, where you desire to make OneStream Analytic Drill Down available on all Cube View Rows and Columns. Follow the steps below to add or remove OneStream Analytic Drill Down from one or more cube views:

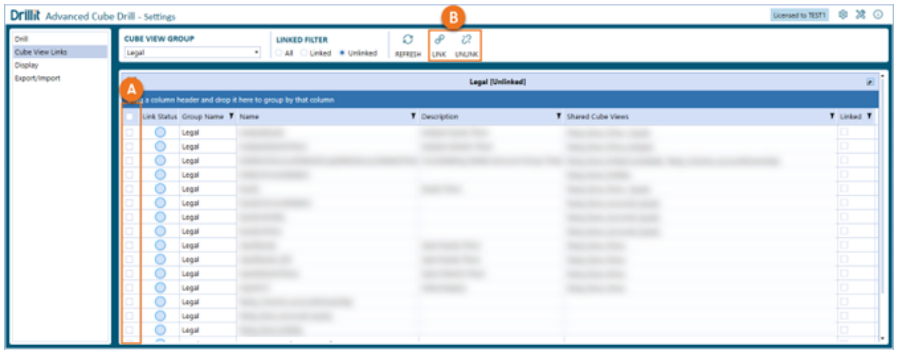
1. Navigate to OnePlace and select **Solution Administration**.



2. Select **Cube View Links** (A). Next, select a Cube View group (B) for which to display results. Then select/ confirm an optional filter (C) to display all Cube Views in the selected group, only those currently linked or those unlinked. Finally, click **Refresh** (D) to display the list of Cube Views.



3. Use the displayed list of Cube Views to enable/disable OneStream Analytic Drill Down on one, multiple or all Cube Views. Use the check boxes to the left (A) to select a Cube View and then select either the **Link** or **Unlink** action (B) to take on the selected Cube Views.



This is the easiest way to manage OneStream Analytic Drill Down Cube View links for most use cases. In addition, this feature will detect if a selected Cube View has embedded links to other Cube Views and apply the link to those as well to fully enable OneStream Analytic Drill Down on the primary Cube View.

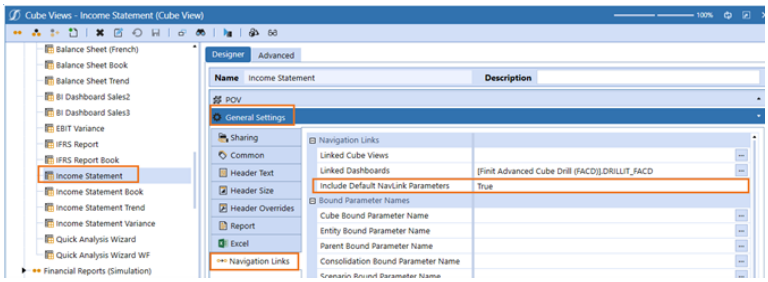
Cube View Settings

These settings will need to be considered for each Cube View where the solution will be utilized. There are multiple options for enabling the solution, which follow the Row and Column order of operations.

Navigation Links

First, the ‘Include Default NavLink Parameters’ setting must be set to ‘True’ on any Cube View using OneStream Analytic Drill Down, using the process below:

1. Start by navigating to **Designer \ General Settings \ Navigation Links**
2. Then set **Include Default NavLink Parameters** to **'True'** to enable the NavLink Parameters.



If this is not enabled on the Cube View, the solution will display an error before opening. This must be set regardless of the configuration for the Linked Dashboards.

Linked Dashboards

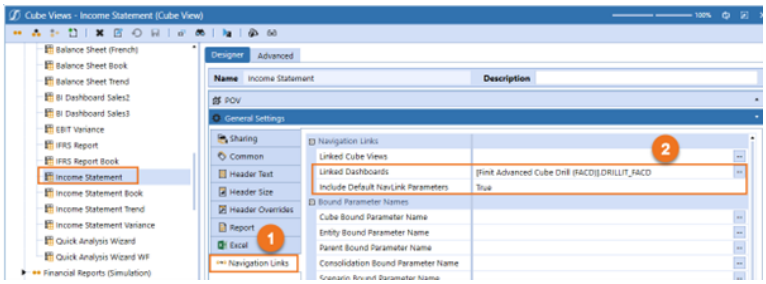
There are multiple options for configuring Linked Dashboards.

Option 1: Not Using Nav Links or Mixed, Want Enable OneStream Analytic Drill Down on All Rows or Columns.

If no other navigation links are being used, or there is a mix, but the solution should be available on all other Rows or Columns that are not specified in a Row or Column already, follow this process:

1. Navigate to **Designer \ General Settings \ Navigation Links**
2. Then set **Linked Dashboards** to **'[Finit Advanced Cube Drill (FACD)].DRILLIT_FACD'**

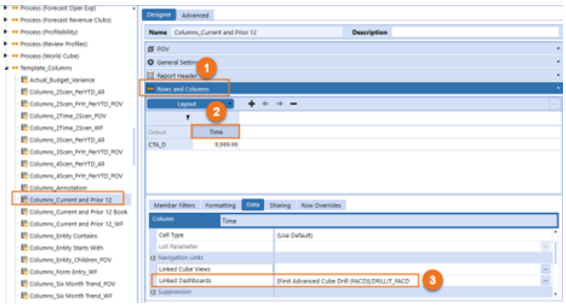
and **Include Default NavLink Parameters** to **True**.



Option 2: Using Nav Links in columns or limiting OneStream Analytic Drill Down to specific columns.

If OneStream Analytic Drill Down needs to be limited to specific columns of a Cube View or other Navigation links are active in the Columns where drilling is desired, follow these steps:

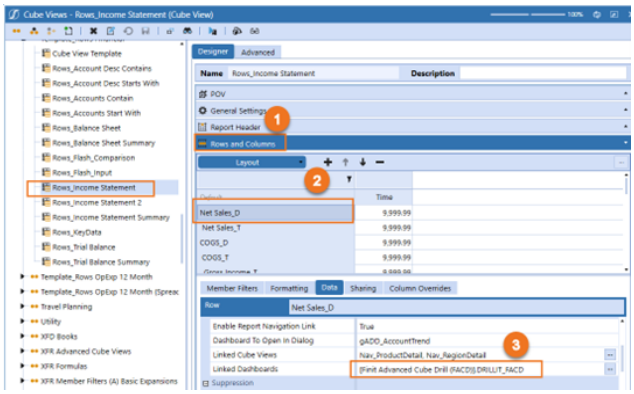
1. Go to the column settings for a column.
2. Navigate to **Designer \ Rows and Columns \ Select the Column \ Select the Data tab**.
3. Update the **Navigation Links - Linked Dashboard** to **[Finit Advanced Cube Drill (FACD)].DRILLIT_FACD**, and **Include Default NavLink Parameters** to **True**, as shown in the example of a Shared Column Set.



Option 3: Using Nav Links in rows or limiting OneStream Analytic Drill Down to specific rows.

If OneStream Analytic Drill Down needs to be limited to specific rows of a Cube View or other Navigation links are active in the Rows where drilling is desired, follow these steps:

1. Go to the Row settings for a row.
2. Navigate to **Designer** \ **Rows and Columns** \ **Select the Row** \ **Select the Data tab**.
3. Update the **Navigation Links - Linked Dashboard** to **[Finit Advanced Cube Drill (FACD)].DRILLIT_FACD** and **Include Default NavLink Parameters** to **True** as shown.

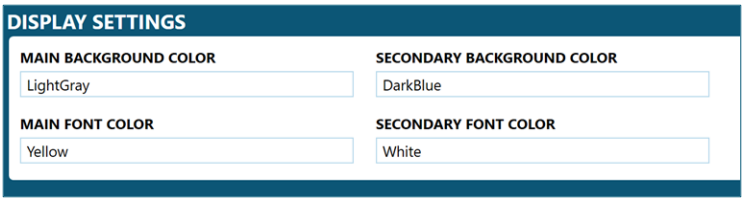


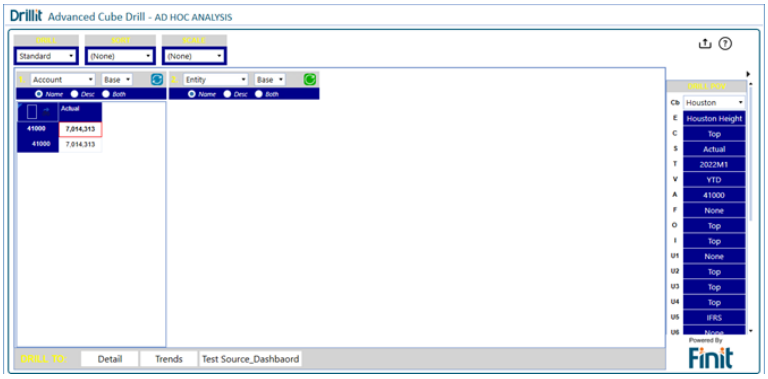
> **NOTE:** These steps will need to be considered for all new Cube Views.

Display Settings

These settings allow the Administrator to format the solution to match their corporate color scheme. For these settings, OneStream color names can be entered here, or HEX color codes can be entered. For HEX codes, 6-character codes must be prefixed with '#FF' to display.

Example of changing colors:





Once you save these settings, you can continue to the Cube View Configuration.

Export/ Import Settings

OneStream Analytic Drill Down provides the ability to export Solution, Drill and Display settings. It is recommended to export settings prior to uninstalling the solution UI prior to the installation of an upgrade.

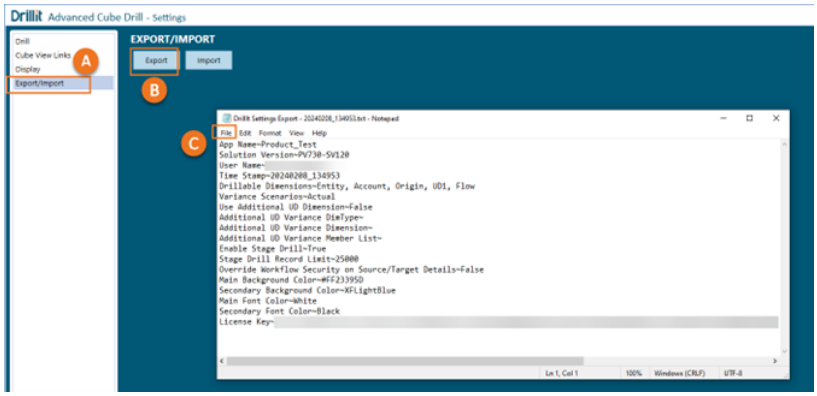
Export Settings

To export settings:

A. Select ‘Export/Import’ from the OneStream Analytic Drill Down settings pane.

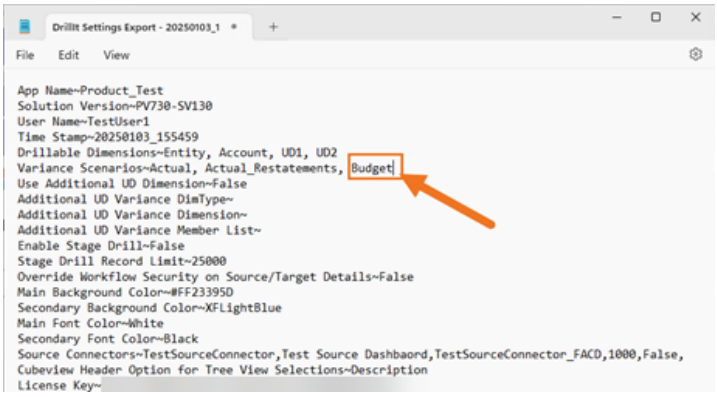
B. Click “Export” to generate a text file that will pop-up on the screen.

C. Save the file in OneStream or locally as desired.



Import Settings

Settings text files can be modified and re-imported into the OneStream Analytic Drill Down solution following the below steps. This example shows how to add an additional variance column for “Budget”:



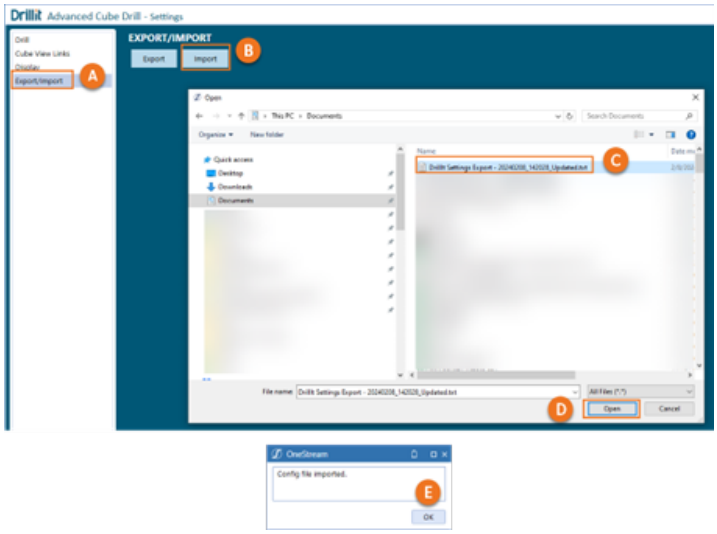
A. Select **Export/Import** from the OneStream Analytic Drill Down settings pane.

B. Click **Import** to launch Windows Explorer.

C. Select the file to import.

D. Click **Open**.

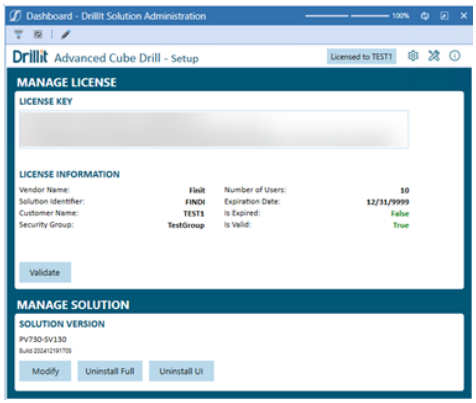
E. Click **OK** on the pop-up window once the file is successfully processed.



Setup Dashboard

The Setup Dashboard has options related to managing the license key and the solution installation.

Manage License and Solution



Manage License

This is the area where you can administer the license key.

Manage Solution

MODIFY

The Modify button will relaunch the initial Setup Wizard process if the required solution metadata members need to be created in a different dimension. Once this process is started, all steps will need to be completed to get back to the Settings page and for the OneStream Analytic Drill Down solution to function correctly.

UNINSTALL FULL

The Uninstall Full button will completely remove all the Cube Views, Dashboard Objects, Business Rules, Metadata installed with this solution and will drop the custom database tables that were created with this solution.

It will not remove the following:

- Any Cube Views configured with the Navigation Link to OneStream Analytic Drill Down
- The Navigation Link values added to Cube Views related to OneStream Analytic Drill Down
- Frequently Used POVs for All Users

UNINSTALL UI

The Uninstall UI button will completely remove all the Cube Views, Dashboard Objects, Business Rules, and Metadata installed with this solution. It will also remove all Cube View configurations for the link to OneStream Analytic Drill Down as well as any Frequently Used POVs for all users but will keep any custom table data.

OneStream Analytic Drill Down Dashboard

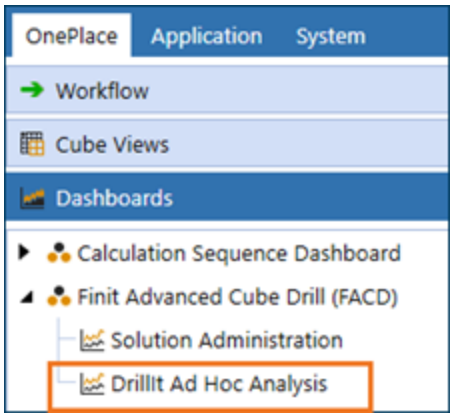
The OneStream Analytic Drill Down solution begins from a Dashboard or Cube View and can be launched from the OneStream application or the Excel Add-in. The user will identify a financial data point they want to analyze further. Upon right-clicking on the data point, the user can navigate to OneStream Analytic Drill Down. The following sections will demonstrate how to access the tool and explain each option available to the user.

Launching OneStream Analytic Drill Down

You can launch OneStream Analytic Drill Down from OnePlace or from a cube view.

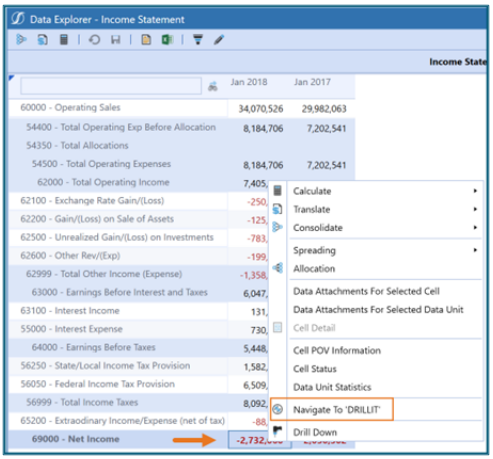
Launch from OnePlace (Ad Hoc Analysis Mode)

Navigate to OnePlace and select **DrillIt Ad Hoc Analysis**.



Launch from Cube View

Right-click on the data point of interest from the desired Data Explorer view. From the resulting dialog box, select **Navigate to 'DRILLIT'**.



Utilizing OneStream Analytic Drill Down

Upon selecting Navigate to 'DRILLIT', the user will be presented with the following screen. To use the tool, the user selects from the various options, and upon refreshing, the user is presented with a more detailed view of the original data point. The selectors are grouped into Global and Dimension Based options. The following sections will examine and explain each of the available options.

> **NOTE:** Ensure the OneStream Global POV settings are established with appropriate Entity and Time and any other dimensions necessary to return data in the application before attempting to utilize OneStream Analytic Drill Down.

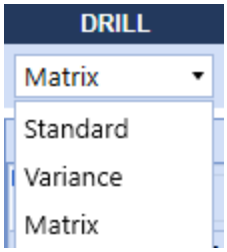
Global Selections

OneStream Analytic Drill Down contains 5 selections that will appear and be available no matter what the drill type used. They are as follows:

1. Drill Type Selection
2. Scaling Options
3. POV Selections
4. Frequently Used POVs
5. Drill to Options

Drill Type Selection

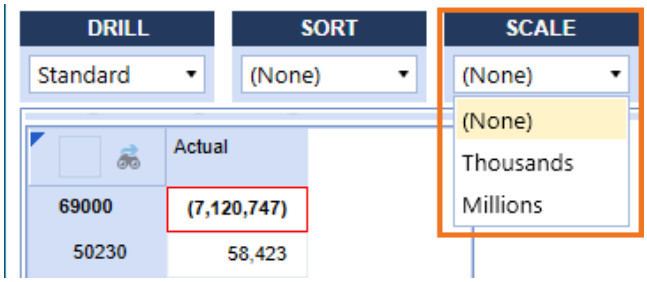
There are 3 drill types: Standard, Variance and Matrix.



Standard and Variance drill types utilize up to 7 panels to drill down into any member/dimensions combination desired to drill into POV balances while the matrix drill type can be used to explore a POV while controlling the dimension members in both the rows and columns.

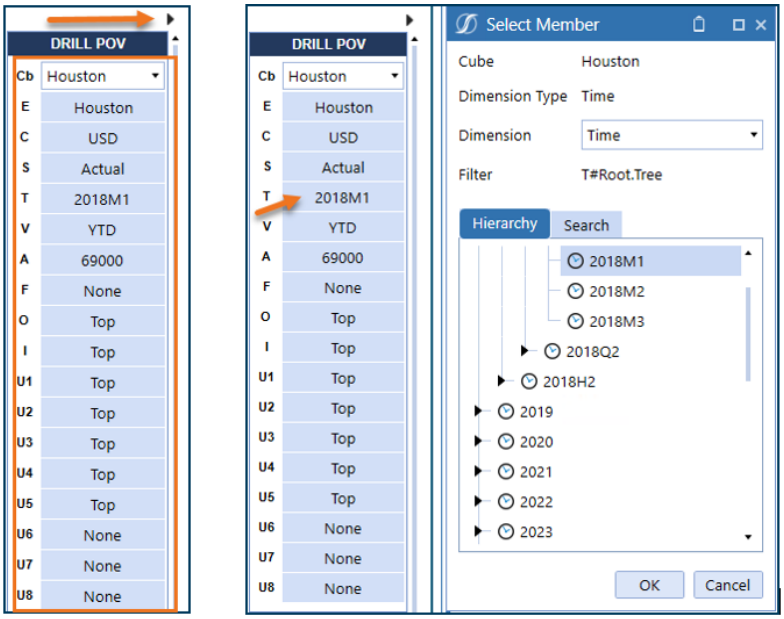
Scaling Options

Users can choose to scale the numerical results. The drop-down option will enable a “None”, “Thousands”, or “Millions” scale to round the number as if it has been divided by that amount. For instance, the amount 853,117 can be displayed as is using “None” for scale. The exact amount scaled to “Thousands” will show as 853.1, and, scaled to “Millions,” will display as 0.9, rounded to the nearest decimal.



POV Selections

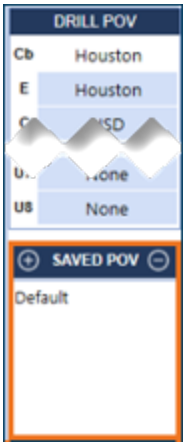
The POV option appears on the right by default. The small arrow on the top right can be clicked to hide or unhide the option. The shaded POV buttons are selectable and can be changed. For example – selecting the time (T) will open a **Select Member** Window to change the time.



NOTE: Ensure the OneStream Global POV settings are established with appropriate Entity and Time and any other dimensions needed to return data in the application.

Frequently Used POVs

Frequently Used POVs, or Saved POVs, can be used to change to commonly used points-of-view quickly and easily. They can be added to, or accessed from, OneStream Analytic Drill Down launched directly from a Cube View or from Ad Hoc Analysis. Saved POVs are limited to 10 and are unique to each user.

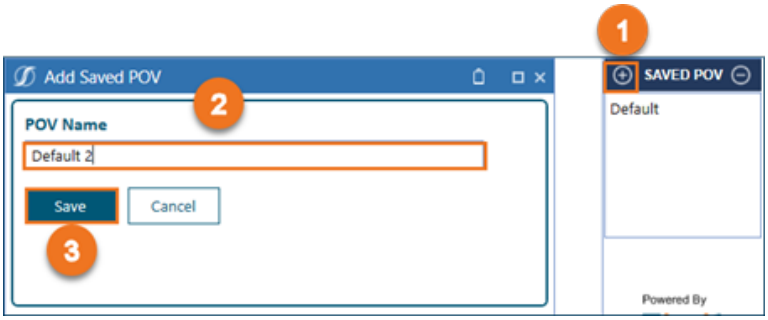


Using Saved POVs

Saved POVs can be accessed from the window below the OneStream Analytic Drill Down POV. Select a Saved POV name and the OneStream Analytic Drill Down POV members will be updated accordingly.

Adding and Removing POVs

POV names are limited to 18 characters and users can have no more than 10 at a time saved. To add a POV, click on the “+” sign (1) from the “Saved POV” window, enter a name (2) and click Save (3).



To remove a saved POV, first click the Saved POV Name (1) from the “Saved POV” window. Wait a moment until the Drill POV is updated with that respective POV’s values, then click the “-“sign (1). Confirm removal by clicking “Remove.”

Drill to Options

The Drill To section has three main sections, the look of which will depend on the solutions settings maintained by the solution administrator.

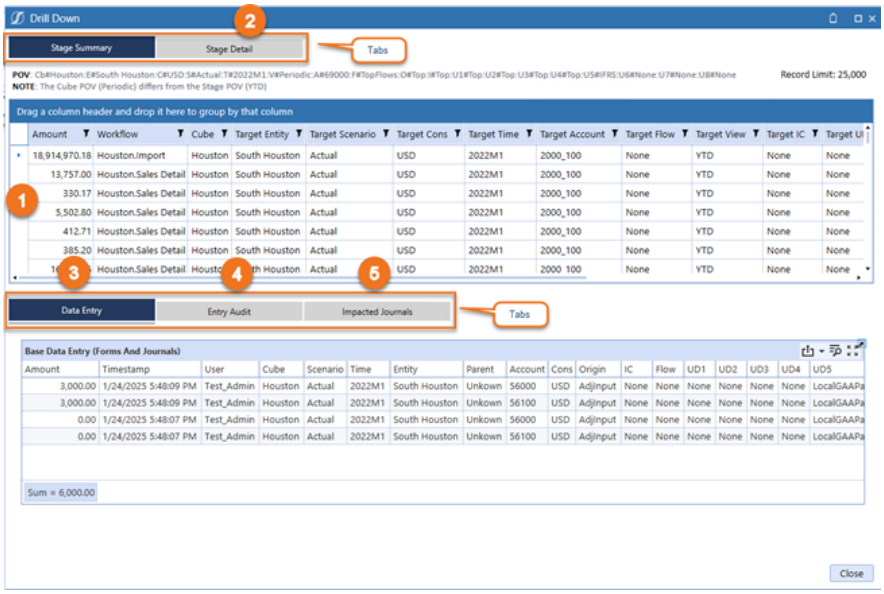
Drill To Detail

Drill to Detail is an optional dashboard that can be enabled by the solution administrator. See Detail Drill Settings to enable and disable this option. If enabled, the button below will be visible from OneStream Analytic Drill Down. Clicking the button will produce a new dashboard as a pop-up that will provide Stage, Journal and Form details behind your current POV.

Grids Layout

From Drill Detail dashboard you can view the following:

1. Summary stage data records (shown initially by default)
2. Detail stage records (when clicked)
3. Current balance Form and Journals including form/journal name, entry users and time stamps
4. Form and Journal audit history
5. Impacting journal details

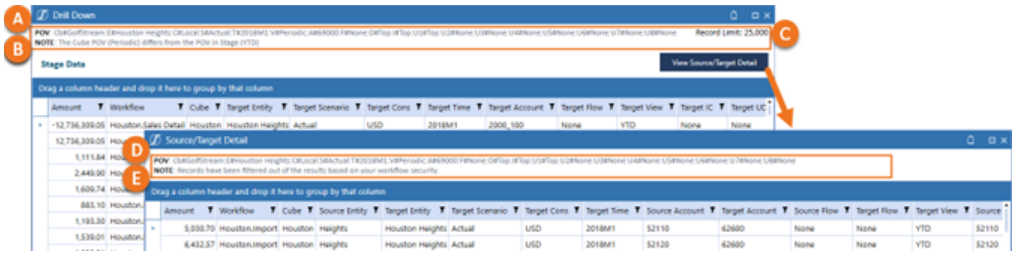


Drill To Detail Messages

There are messages on both the main “Drill to Detail” and “Source/Target Detail” screens that provide helpful information about the records being displayed.

- Point-of-View (POV) that is being drilled on and for which details are being returned.
- A context-sensitive message will appear if the View drilled on varies with the view of the stage data displayed. For example, below the stage, data was loaded “YTD,” but the POV view is “Periodic.”

- The current record limit is displayed and applies to the limit of stage records returned for both the main “Drill to Detail” and “Source/ Target Detail” screens.
- This is the same POV provided for reference as on the main “Drill to Detail” screen.
- A message will appear if “Override Workflow Security for Source Detail” is enabled in settings and one or more workflows have been filtered out of the grid due to a lack of security access to the underlying workflow.



Data Limitations

There are limitations to the data “Drill to Detail” will display. This is due to two main reasons:

1. OneStream Analytic Drill Down leverages OneStream audit tables, in part or whole, for much of the detailed records. As a result, only activity that is logged will be available.
2. If any of the audit tables get purged, this will also impact the details available to display.

Below are additional limitations to be aware of when using Drill to Detail.

Data that will not appear at all as detail records:

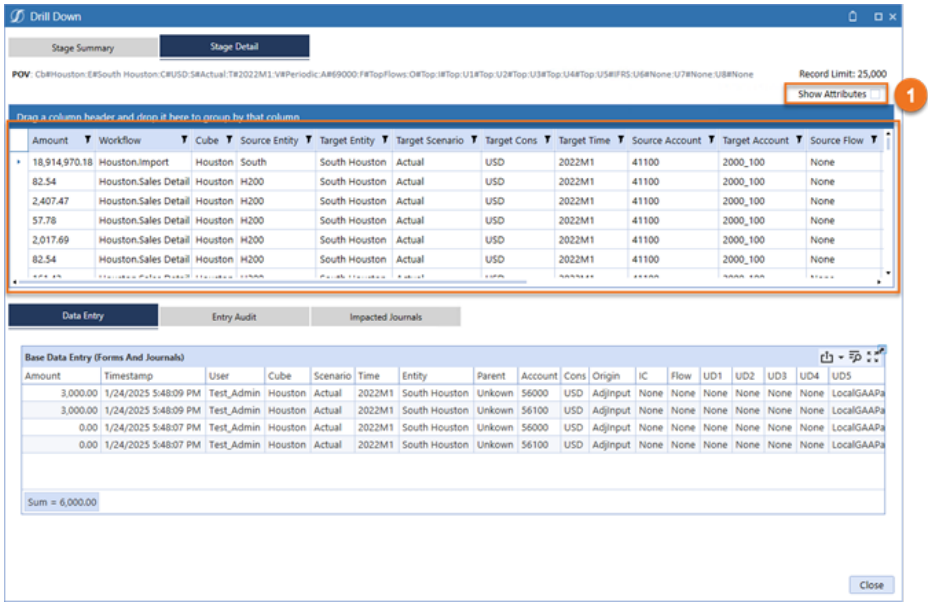
- Derived data
- Data that is calculated, modified, or cleared by a business rule

Data that may not appear correctly, depending on the situation:

- Stage data that is altered after loading to the Import member within the destination cube. This can occur by altering Import cube data via business rules or Data Management jobs. In such cases, there can be a disconnect between the amount drilled down into and the displayed Stage data.
- The POV view differs from the view to which stage data was loaded. For example, if you drill down into the M13 period for the “Net Income” account, with a view of Periodic, the stage data that appears may be in the YTD format and not agree to the drilled Periodic value.
- Any detail records that display a user name will show the name as blank if the user is deleted from OneStream after their logged activity. However, disabled users will still have their information shown.

View Source/Target Detail

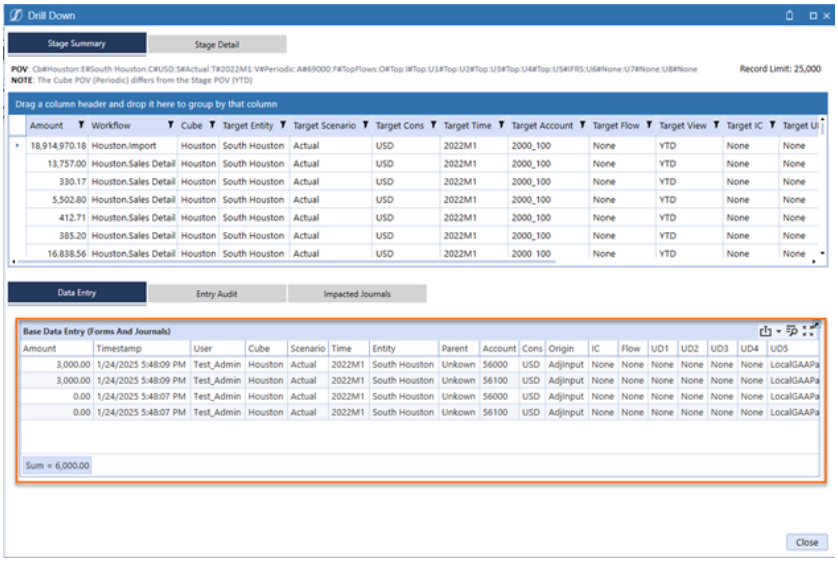
To view detailed records, including source and target information, that make up the consolidated stage records on the main “Drill to Detail” screen, click the “Stage Detail” tab. Note, Inactive tabs are colored in grey and active tabs in dark blue. Clicking this button will show detailed records for the main POV with available Source and Target fields. By default, no attributes are shown, however, by selecting the “Show Attributes” checkbox (1) the grid will refresh and show any attribute columns that contain data. Columns that may be shown if data is populated are: A1 through A20, V1 through V12 and Label.



> **NOTE:** If the default security viewing of source records is in place and not overwritten (see Detail Drill Settings), users will only have access to detailed records for which the user has access to the underlying workflow through which the records were loaded. If this security option is overwritten, the user will have access to view all the detailed records behind a POV to which they have access.

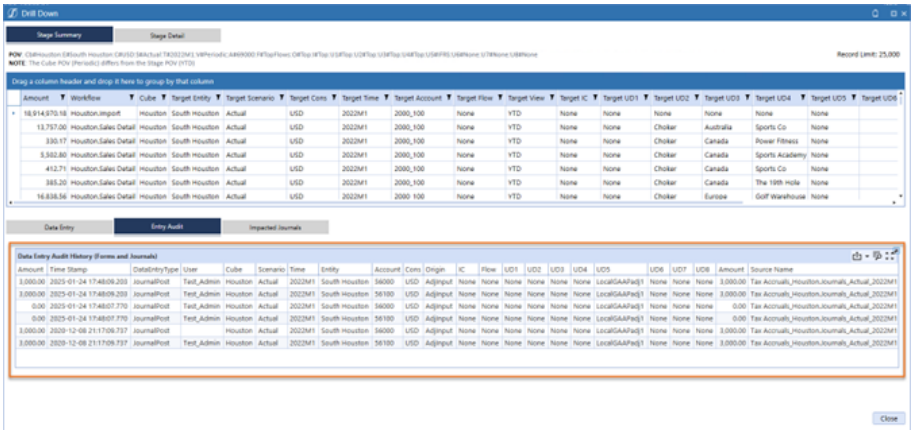
Data Entry

The Data Entry grid displays Form and Journal details supporting the current POV balance.



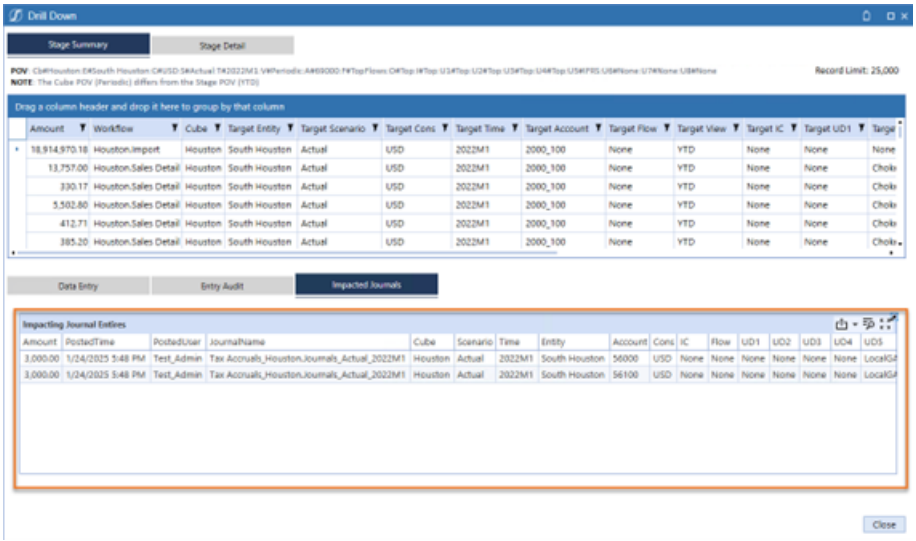
Entry Audit

The Entry Audit grid is similar to the standard Data Entry Grid but displays not just the current balance records but all available history sorted with the most current listed first.



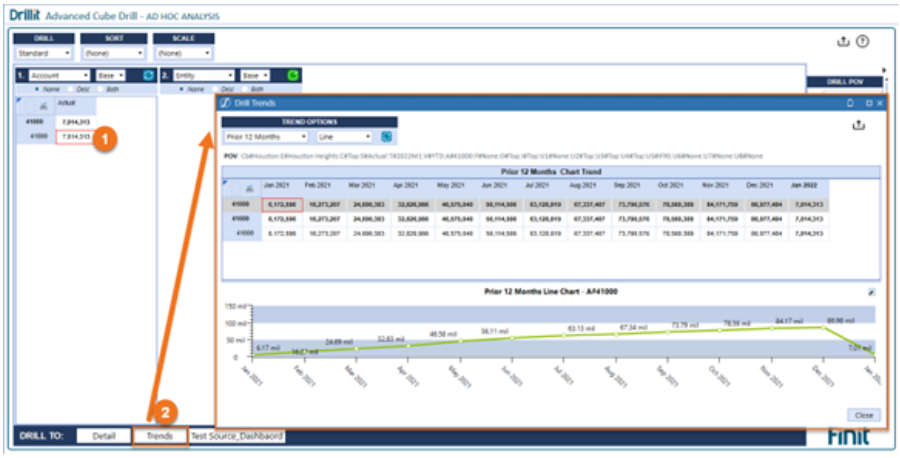
Impacting Journals

The Impacting Journals grid is similar to the standard Data Entry Grid but filtered to display the current Journal records supporting the noted POV.

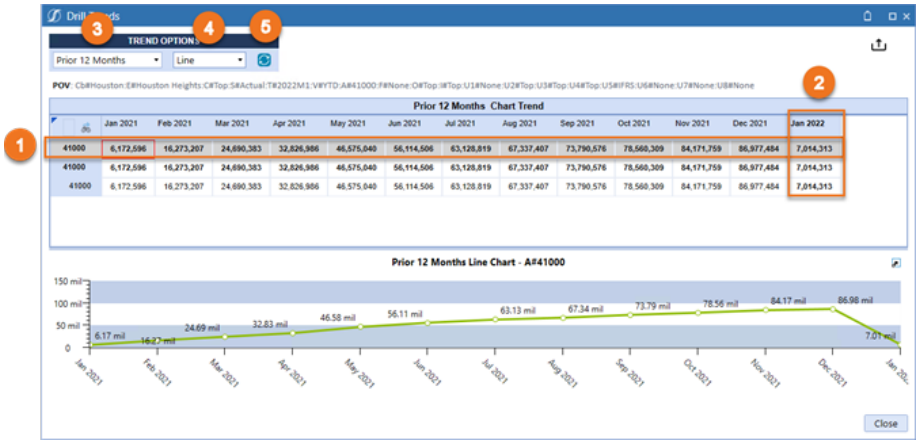


Drill To Trends

The Drill to Trends provides users the ability to select a OneStream Analytic Drill Down intersection and view various pre-defined time trends for that POV. To utilize this feature first, select an intersection (1) and click the Trends button (2).



In the dashboard that pops up, a cube view will be displayed with the member selected highlighted in gray (1) across the time series. The time period in the underlying main POV will be bolded (2) to distinguish it from the other time periods shown.



The Trend dashboard has two options to choose from to further analyze you selected POV: Trend Periods (3) and Chart Type (4). After updating either, the refresh button (5) must be clicked to update the cube view and graph.

In addition, when the cube view contains multiple members in the rows, you can select a different row to automatically update the graph to reflect the results for the selected row member.

Trend Periods

There are 8 pre-defined time trends to choose from as shown below. For all options, the main POV time period will also be shown as reference.

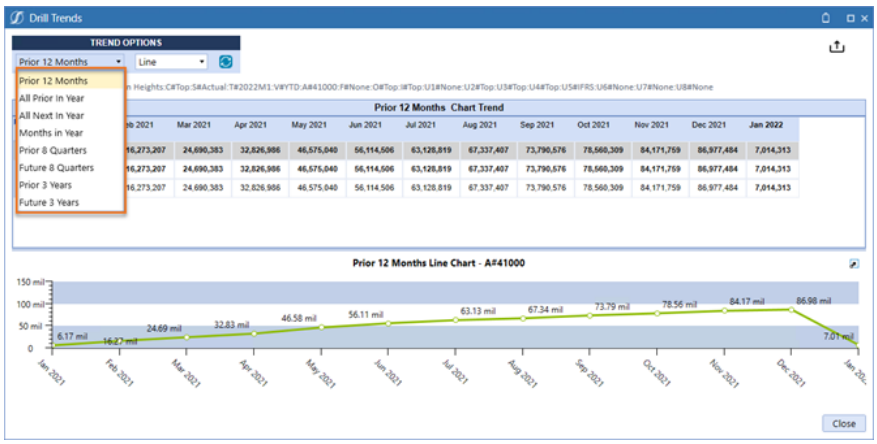
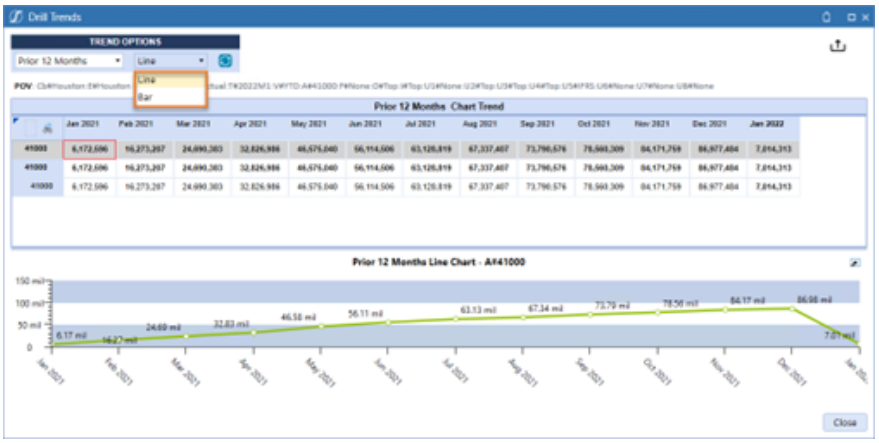


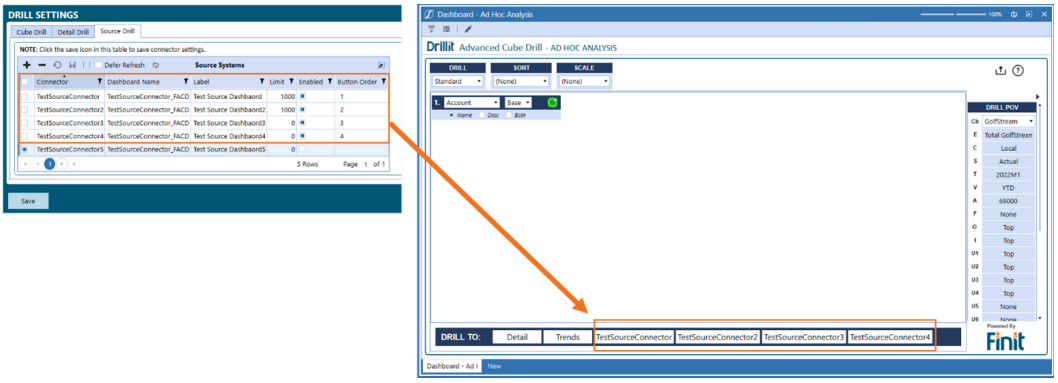
Chart Types

Trends have two graphing options to choose from: Line and Bar.



Drill To Source

To provide additional drill detail, OneStream Analytic Drill Down supports customized connections to source systems created separate from the solution. OneStream Analytic Drill Down provides the ability to pass a POV to a client provided dashboard to view additional detail behind a drill value. An unlimited number of connections can be stored, but only 4 can be active and available for selection at a time in the solution.



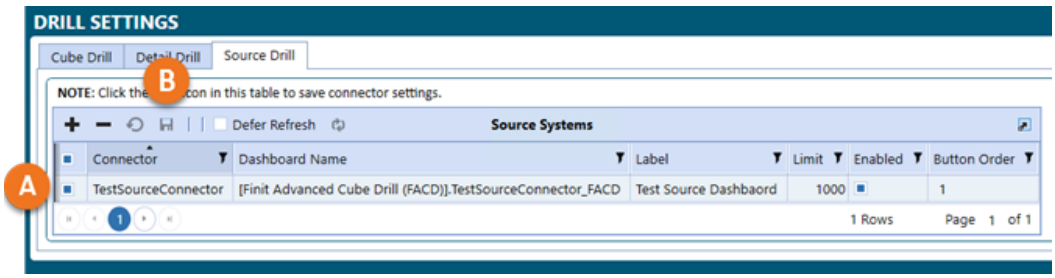
Any enabled Drill to Source connection button can be selected from a Standard, Variance or Matrix drill amount. Unless otherwise provided for in the custom connection code, if a user has access to view an amount in OneStream Analytic Drill Down, they will have access to execute any enabled source connection.

Creating A Source Drill Connection

The best way to illustrate how to create a Source Drill Connection is to highlight the provided example connection named “TestSourceConnector” which is disabled by default.

Step 1: Create and enable a connection.

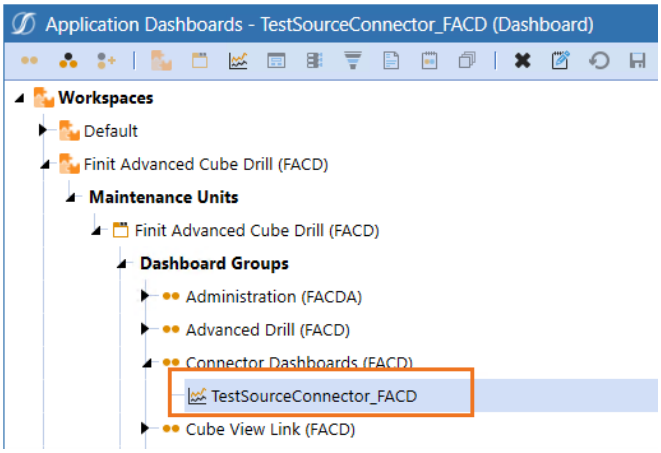
From Drill Settings, select the “Source Drill” tab and create a connection with the grid ensuring all columns are filled in. Once the data is entered (A), click the disk icon (B) to save the data within the grid.



The example above uses a test connector provided as part of the solution installation. The only data changed is the “Enabled” column and “Button Order”. Only connections that are enabled will be displayed in OneStream Analytic Drill Down. The “Button Order” column should only have a value (of 1-4) for enabled connections, which will determine the order the connection buttons are displayed in the solution. Ensure dashboard name is prefaced with the applicable Workspace name in brackets followed by a period, as in the example above.

Step 2: Create the dashboard entered in Step 1.

Create a dashboard, if it does not already exist, as named in Step 1 under the “Dashboard Name” column. It is recommended to create non-test dashboards outside of the “Finit Advanced Cube Drill (FACD)” Workspace so the dashboard is not deleted upon a solution upgrade. The example below is from the provided test connection.



.Step 3: Consume the OneStream Analytic Drill Down provided POV in the Source Connection Dashboard.

When a OneStream Analytic Drill Down amount is selected, and a Source Connector is clicked, the POV information is saved by OneStream Analytic Drill Down into a user state parameter that can be accessed easily via code by the dashboard defined in the connector settings.

Using A Source Drill Connection

To access or consume detailed point-of-view (POV) information behind the amount drilled into, you will need to access the DrillToSourceInfo class within the FACD_DrillToSourceInfo business rule. To do this within a business rule follow the steps below, using VB.NET as an example.

Step 1: Import FACD_DrillToSourceInfo and FACD_Constants.

In the business rule you wish to access details behind the POV selected, you first need to import the business rules containing the OneStream Analytic Drill Down API functions:

Imports OneStream.BsuinessRule.Extender.FACD_DrillToSourceInfo

Imports OneStream.BsuinessRule.Extender.FACD_Constants

Step 2: Create an instance of the DrillToSourceInfo class.

Dim srcDrill As New DrillToSourceInfo(si)

Step 3: Access Class Functions.

Access the function of this class to give you detail behind the POV selected in OneStream Analytic Drill Down that can be used to query a source system. Below are the available functions, along with return format, and select examples of information returned.

SessionStatePOVString (String)

This function returns as a string the POV selected in OneStream Analytic Drill Down.

```
Cb#GolfStream:E#Total GolfStream:C#Local:S#Actual:T#2022M1:V#YTD:A#41000:F#None:O#Top:I#Top:U1#Top:U2#Top:U3#Top:U4#Top:U5#None:U6#None:U7#None:U8#None
```

TargetPOVFieldNames (Dictionary(Of POVField, String))

This function is similar to “TargetPOVFieldNames “ except instead of returning member names, member Ids are returned as an integer.

StageDataWithAttributesTable (Datatable)

This function returns as a datable all detail stage data records behind the selected POV, including available attributes.

AttributeDictionaryWithNullAndBlank (Dictionary(Of StageAttribute, List(Of String))

The AttributeDictionaryWithNullAndBlank can be used to access lists of distinct values by attribute. This can be used in cases where the source system records are mapped based on values from the stage attributes. Let's take an example where attribute #1 is used to map from the OneStream account to the source system account. In this example, all stage records for OneStream account 41000 have a value in A1 "41000.001" denoting that the OneStream account 41000 maps to source system 41000.001. To access the string "41000.001" you could use the following code, using again the class declaration example above:

srcDrill.AttributeDictionaryWithNullAndBlank(StageAttribute.A1)

This function will return a value, even if just blank, for all attributes, even if they are not used, or null, in the stage table for the selected POV.

AttributeDictionary (Dictionary(Of StageAttribute, List(Of String))

This function is very similar to the "AttributeDictionaryWithNullAndBlank" function except that null values will be returned for StageAttributes with no values because of a lack or records in stage.

UniqueTargetMemberNameDictionary (Dictionary(Of POVField, List(Of String))

This function will return a unique list of members for a selected POVField (i.e. Account, Flow, etc). Below is an example usage of this function:

UniqueTargetMemberNameDictionary (POVField.Account)

Standard and Variance Drill Types

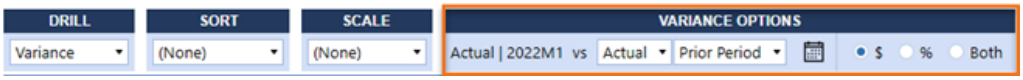
Both the Standard and Variance drill types allow you to drill down into a POV using multiple panels to obtain deeper levels of detail. However, the Variance drill type can provide context by showing a comparison period with variance details.

Standard Drill

This is the standard ability to drill into the given data point based on desired dimensions. (See below for further details on selecting Dimensions.)

Variance Drill

In addition to drilling into a given data point, the Variance Drill option allows the user to compare the result against another scenario or time. For example, the user may desire to compare their data point against actuals from the prior period or budget from the same period. Once the Variance Drill option is selected, a new menu option window will display on the right.

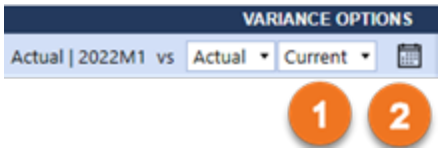


The Variance Drill option is where you select the comparison scenario and time and the view of the variances in amounts or percentages. The left side of the Comparison menu, 'Actual | 2018M1' in the example above, is dynamically tied to the user's original data point of interest. The drop-down menus to the right allow the user to select the desired comparative scenario and time frame. Time frame options include 'Current,' 'Prior Period,' 'Prior Quarter,' and 'Prior Year.'

> **NOTE:** The Administrator controls Scenarios Available for comparison in the OneStream Analytic Drill Down Solution Administration Settings dashboard.

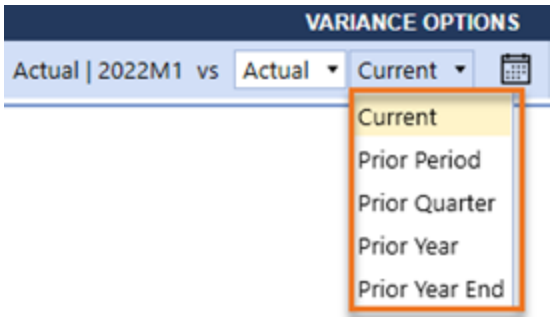
Variance Time Options

There are two ways to select a time period to compare your selected variance scenario to. You can select from a list of predefined dynamic times (1) and are relative to the POV time, or you can select any custom time member from a dialog (2).



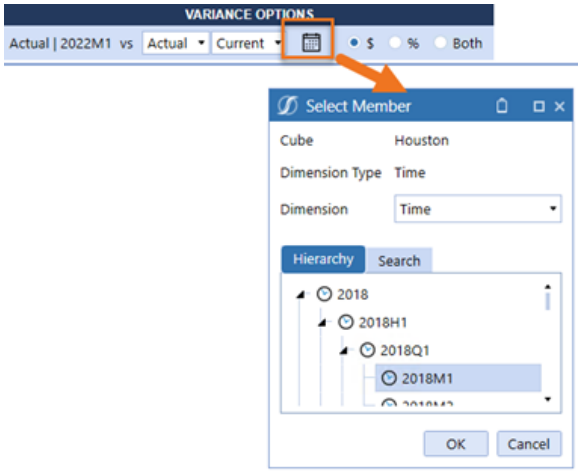
Dynamic Time Selections

OneStream Analytic Drill Down provides 5 pre-defined dynamic times to compare to the current POV. All times are relative to the current POV.

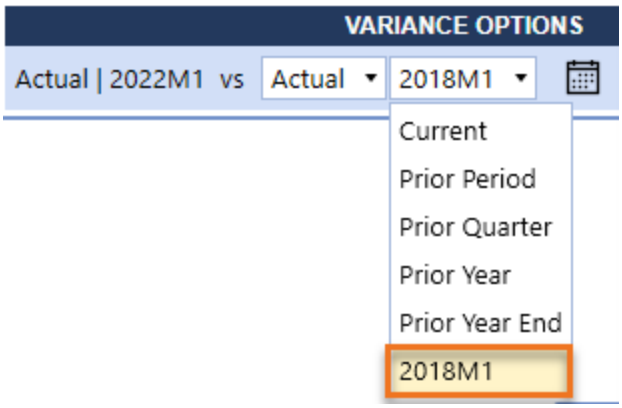


Custom Time Selection

In addition to predefined dynamic members, users can select any time period as the basis of comparison by selecting the calendar icon to the right of the dynamic time combo box. Selecting this will launch a dialog where you can select any time and add to the list by clicking **OK** after selection.



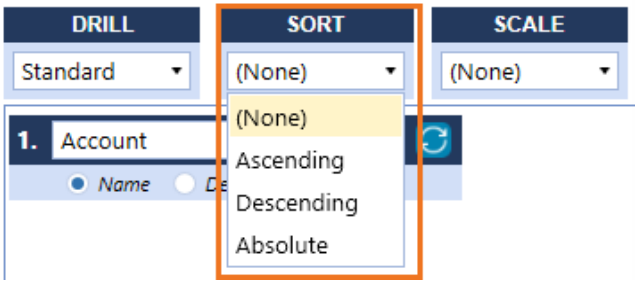
Once selected, the time period will be added to the list as shown below and will be available in the list until the user logs out at which time the list will be reset. Multiple times are allowed to be added.



Variance Sorting

This drop-down menu impacts the order in which the data is presented. Data can be set to either Ascend, Descend, or be based on Absolute values. Using 'None' presents the data in the order the members exist in the given dimension hierarchy.

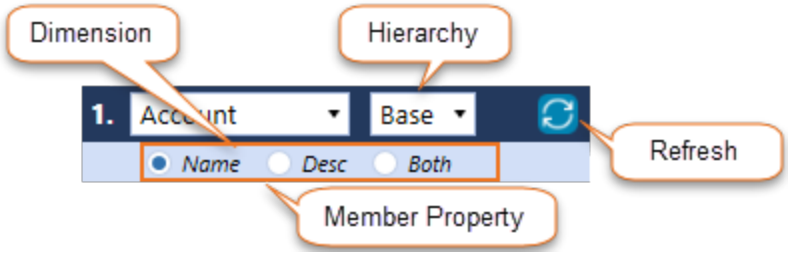
> **TIP:** This selection only applies when the given dimension is set to **Base** or **Children**.



Dimension-Based Selection

This section will focus on selections made based on specific Dimensions of interest. These selections can be updated as desired while utilizing the tool. The solution allows for detailed analysis of up to seven dimensions. The following described options behave identically across all seven panels of the solution.

Drilling Dimension-Based Options



Dimension Selector: This drop-down menu allows users to select the dimension they desire to drill down into. Account, Entity, Flow, plus all User-Defined Dimensions, are available.

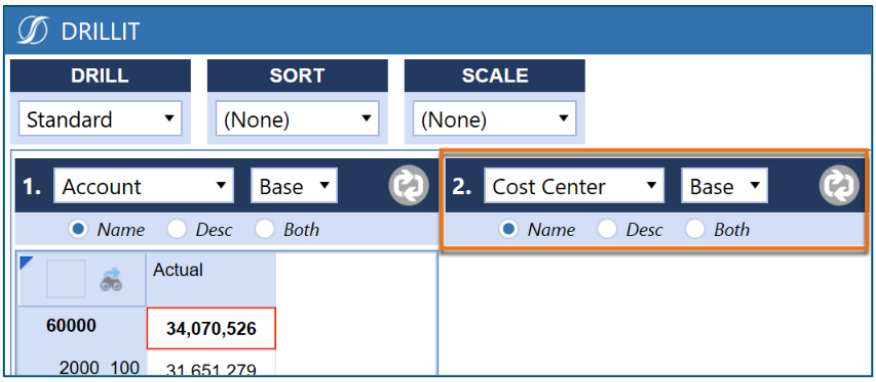
Hierarchy Selector: This drop-down menu allows the user to select the desired member expansion. ‘Base,’ ‘Tree,’ ‘Children,’ and ‘Grand Children’ are available. As noted above, when selecting Base, the user can change the presentation of the result using the global Sort options to simplify analysis. When selecting Tree, the data is presented based on the given dimension's complete hierarchy.

Member Property: These radio button options allow the user to define whether a member's Name, Description, or both are displayed. This option is not available if the Tree Expansion is selected.

Refresh Button: Updates the resulting data set based on the user's selections. The button appears in two colors based on its refresh status.

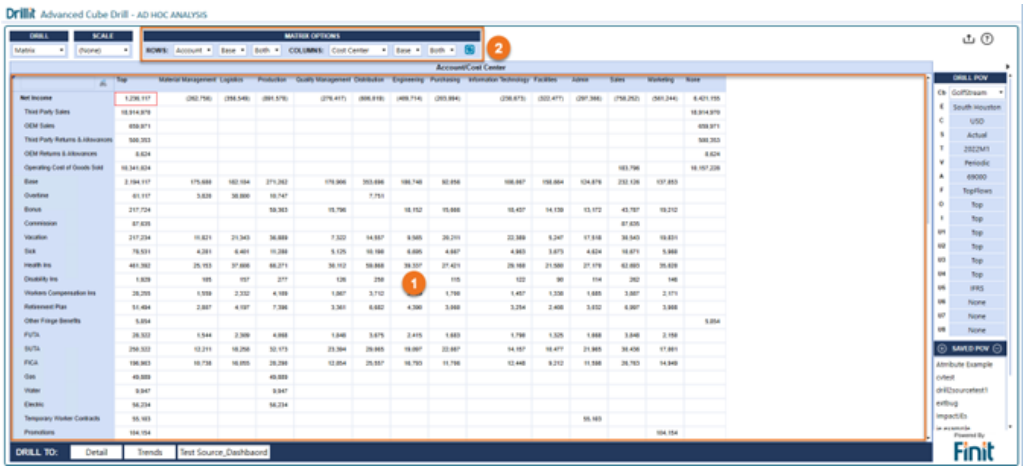
Drilling Into Multiple Dimensions

By default, as shown above, the user is presented with one dimension from which to select. However, the user can readily add additional Dimensions to further analyze their data at a lower, more granular level of detail. The second-dimension drill window is displayed automatically after you refresh the first screen. The third will display after the second is refreshed, and so on.



Matrix Drill Type

The Matrix drill type provides users the ability to control (2) in a single panel whatever dimension type and member they would like to see in the rows and columns (1).



Matrix Selections

Matrix options are split between those for Rows and Columns which can be independently controlled. The first option for each, (1) and (4), control the dimension type displayed in the applicable matrix axis. Next, users can select by axis the expansion type they would like displayed (2) and (5), similar to the functionality in Standard and Variance drill types. Lastly, if expansion type Tree is not selected, each axis will have an option for how to display the header information (3) and (6). To update the matrix cube view for selection changes, click the refresh button (7).

Matrix Performance

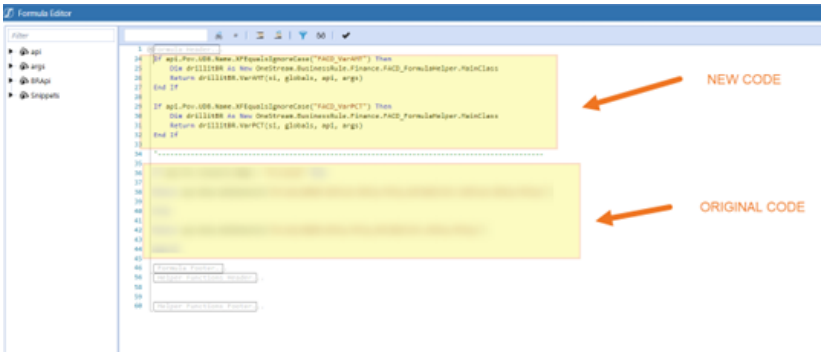
Note that the matrix drill cube view has the ability to return a large number of records, particularly if a data unit dimension is included in both the row and column so be careful of what selection you make and be prepared to wait if a large number of data units are requested.

Viewing Certain Dynamic Members along with Variance Calculations

OneStream calculates dynamic formula members in the following order: Entity, Scenario, Account, Flow, UD1, UD2, UD3, UD4, UD5, UD6, UD7, UD8. Due to this calculation order and depending on which dimension you select to hold the OneStream Analytic Drill Down variance members, you may not see a correct variance amount in OneStream Analytic Drill Down. This occurs when another dynamic calculation is performed after the OneStream Analytic Drill Down variance members are calculated.

For example, if the OneStream Analytic Drill Down variance calculations are in UD8, and an Account, Flow or UD1-UD7 dynamic calculation formula is in the POV the OneStream Analytic Drill Down variance calculations will be correct because they will be performed last in the sequence. However, if the OneStream Analytic Drill Down variance calculations are in UD1 and a dynamic calculation exists in the POV for dimensions UD2-UD8 then the variance calculation will not calculate the correct variance amount.

A workaround in these cases where the variance calculations would otherwise be incorrect, is to add the section of “New Code” below to the beginning of any dynamic member formula. It is important to include the correct dimension type you have set in OneStream Analytic Drill Down settings for your variance calculations. The example below assumes UD8 in lines 24 and 29, but can be updated for any dimension used.



Administration Tasks

Ongoing maintenance items will depend on the design of the OneStream applications and business processes for administering specific dashboards and cube views.

Updating Available Variance Scenarios

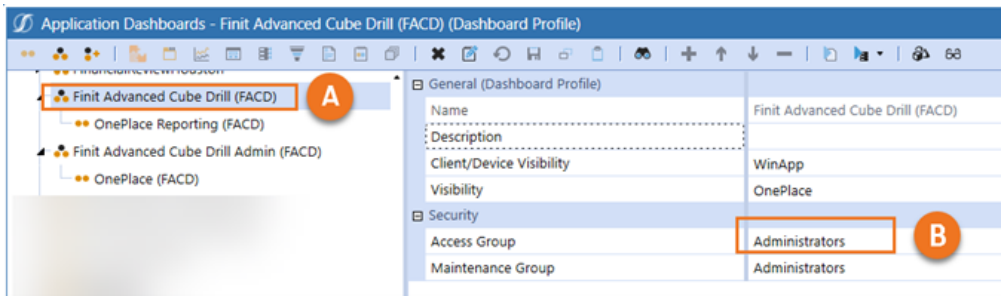
Depending on the Scenarios that need to be available for comparison and processes in your app, for creating new Scenarios, they may need to be added to the solution. See Variance Scenarios for steps to add them.

Enabling Additional Cube Views

When new or additional Cube Views need OneStream Analytic Drill Down enabled, the expectation is that this will be completed by an Administrator or another role with Maintenance Access to Cube Views. Identifying, as well as linking, new Cube Views can be easily accomplished using the Bulk Cube View Maintenance feature. See Cube View Configuration for details on completing this task.

Enabling Frequently Used POVs Dashboard

To allow OneStream Analytic Drill Down users to use the Ad Hoc Analysis dashboard you must modify the Access security group for the “Finit Advanced Cube Drill (FACD)” (A) from the default of “Administrator” (B) to a user group OneStream Analytic Drill Down users have access. In most cases this is the same user group created in the Setup process.



Upgrading

When upgrading OneStream Analytic Drill Down, it is recommended to uninstall the prior version first. This process can be completed by navigating to the OneStream Analytic Drill Down Setup Page, selecting the “Uninstall” button, and then following any pop-ups that display.

Help and Miscellaneous Information

Review this section for troubleshooting, recommended display settings, package file name information, and considerations for modifications to solutions.

Troubleshooting and FAQs

When opening OneStream Analytic Drill Down from the right-click menu of a Cube View, OneStream Analytic Drill Down does not open, and an 'Object reference not set to an instance of an object' error occurs. Why is OneStream Analytic Drill Down not opening?

a. Please check the settings on the Cube View where OneStream Analytic Drill Down is being launched to ensure it is correctly configured with the 'Include Default NavLinks Parameters' setting set to 'True'.

b. See Cube View Configuration for the exact steps to follow.

For the most up-to-date troubleshooting & FAQs, please refer to OneStream Support, Support - OneStream Software.

OneStream Display Settings

OneStream Solutions frequently require the display of multiple data elements for proper data entry and analysis. Therefore, the recommended screen resolution is a minimum of 1920 x 1080 for optimal rendering of forms and reports.

Additionally, OneStream recommends that you adjust the Windows System Display text setting to 100% and do not apply any Custom Scaling options.

OneStream Solution Modification Considerations

A few cautions and considerations regarding the modification of OneStream Solutions:

- Major changes to business rules or custom tables within a OneStream Solution will not be supported through normal channels as the resulting solution is significantly different from the core solution.
- If changes are made to any dashboard object or business rule, consider renaming it or copying it to a new object first. This is important because if there is an upgrade to the OneStream Solution in the future and the customer applies the upgrade, this will overlay and wipe out the changes. This also applies when updating any of the standard reports and dashboards.
- If modifications are made to a OneStream Solution, upgrading to later versions will be more complex depending on the degree of customization. Simple changes such as changing a logo or colors on a dashboard do not impact upgrades significantly. Making changes to the custom database tables and business rules, which should be avoided, will make an upgrade even more complicated.

Package Contents and Naming Conventions

The package file name contains multiple identifiers that correspond with the platform. Renaming any of the elements contained in a package is discouraged in order to preserve the integrity of the naming conventions.

Example Package Name: `FACD_PV730_SV131_PackageContents.zip`

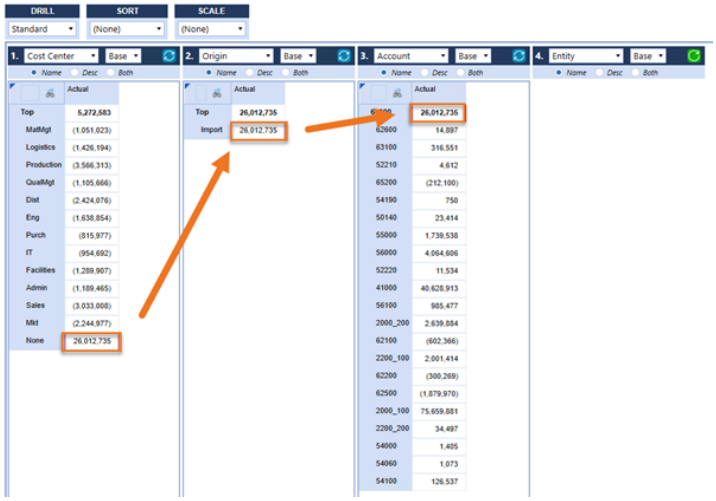
Identifier	Description
FACD	Solution ID
PV7.3.0	Minimum Platform version required to run solution
SV131	Solution version
PackageContents	File name

Appendix: Examples

Three representative examples are provided to help visualize the impact of the different drill options. One each for a Standard, Variance, and Matrix based drill.

Standard Drill Example

In the following example, the user began with the total Net Income for a given POV. Using the OneStream Analytic Drill Down solution, they could quickly drill and further analyze the data by Region, Product, then Account.



Region: In the Dimension 1 section above, the user has selected ‘Cost Center’ from the Dimension Selector. Upon refresh, the original data point of 5.3M is further detailed by the various cost centers (MatMgt, Logistics, Production, etc.)

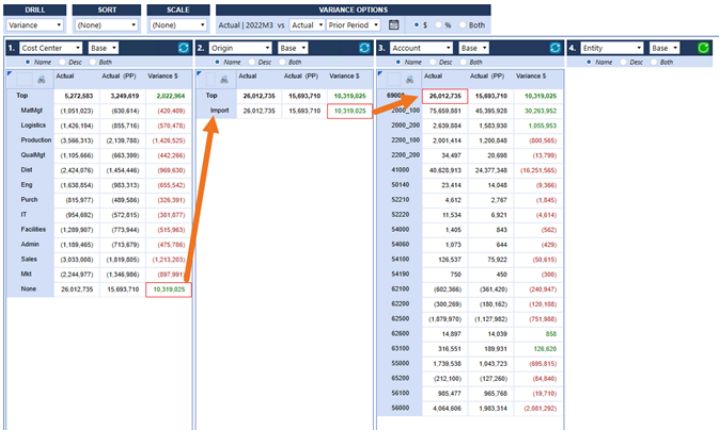
Origin: The user was then particularly interested in further analyzing the None Cost Center by Origin. The user selected the 26.0M figure in the first panel. In the second panel, they then selected Origin using the Dimension Selector and Base for their Expansion. Upon refresh, the 26.0M figure was further broken down by Origin.

Account: Lastly, the user wanted to know more about the Import balance of 26.0M in Net Income, specifically with a breakdown by Origin. Like the steps under Origin above, they selected the 26.0M in the second panel, and upon refresh, the 26.0M figure was further broken down by Account.

> **TIP:** Administrators can add as many dimensions as desired based on the Application's dimensionality. If a Dimension you expect to be able to drill on is not available, contact your Administrator so they can add it.

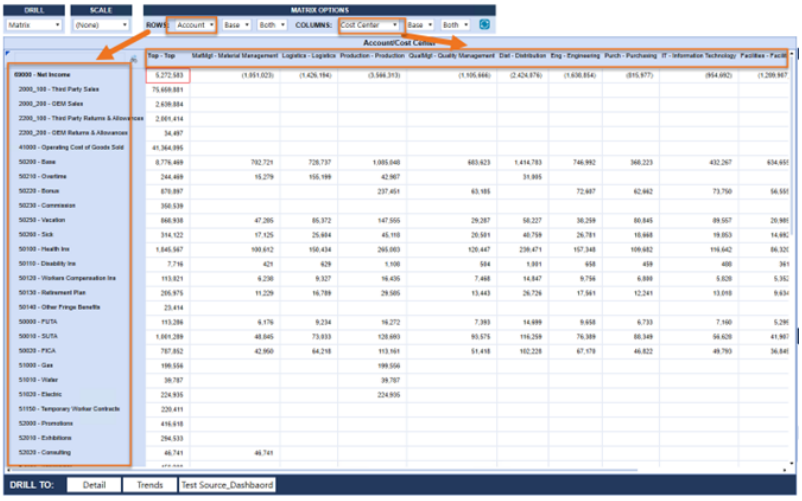
Variance Drill Example

In this example, the user, in addition to details by Cost Center, Origin, and Account, also wants to see a comparison against prior period Actuals. The steps to produce this are the same as above, with the additional step of selecting the desired comparative. Additionally, note that the user chose to see only account descriptions by selecting the ‘Desc’ member property radio button and to see the data in ascending order by selecting ‘Ascending’ from the global Sort drop-down menu.



Matrix Drill Example

In this example, the user wishes to see accounts in the rows and cost centers in the columns with base members shown in each axis.



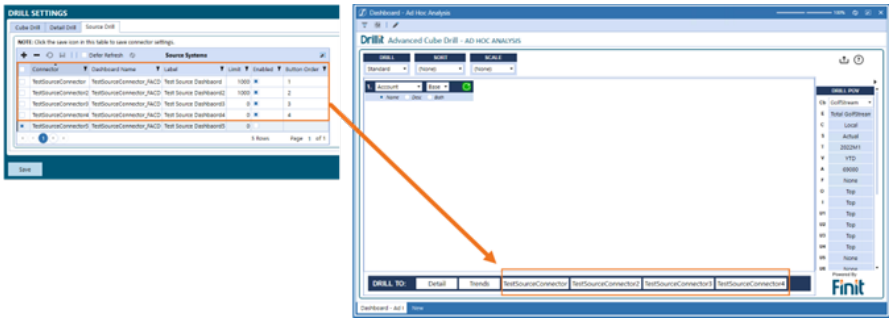
Appendix: Custom Source Drill Setup

Follow these guidelines for setting up a custom source drill.

Overview

To provide additional drill detail, OneStream Analytic Drill Down supports customized connections to source systems created separate from the solution. The Source Drill settings are used to manage these connections.

See Creating a Source Drill Connection for further details on how to create and manage a Source Drill connection.

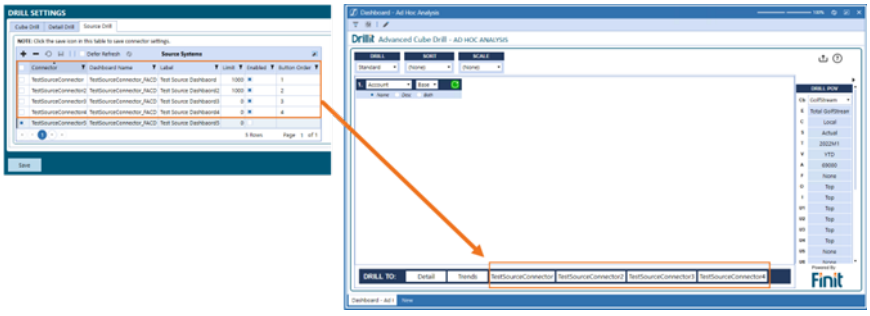


Drill To Quick Links

The ‘Drill To’ Quick Link toolbar is where you can drill further into the details of your data. The number of Links you’ll see depends on the solutions settings maintained by the solution administrator.

Custom Source System Drills

To provide additional drill detail, OneStream Analytic Drill Down supports the integration of existing source systems connected by using the Source Drills configuration. OneStream Analytic Drill Down provides the ability to pass the selected OneStream Analytic Drill Down POV to a client created dashboard to view additional detail behind a drill value. An unlimited number of connections can be stored, but only 4 Source Drills can be Enabled and visible in OneStream Analytic Drill Down at a time.



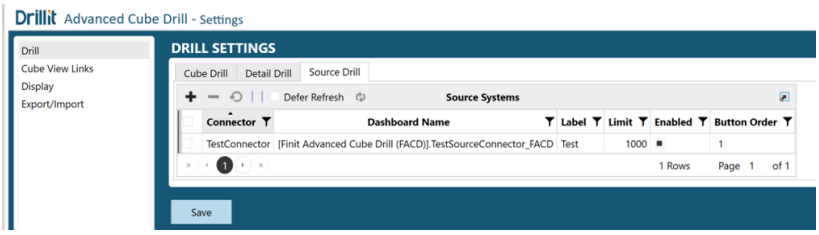
Any enabled Drill to Source connection button can be selected from a Standard, Variance or Matrix drill amount. Unless otherwise provided for in the custom connection code, if a user has access to view an amount in OneStream Analytic Drill Down they will have access to execute any enabled source connection.

Creating a Source Drill Connection

The best way to illustrate how to create a Source Drill Connection is to highlight the provided example connection named “TestSourceConnector”, which is disabled by default.

Step 1: Create and Enable Source Drill Connection

1. From Drill Settings, select the “Source Drill” tab.
2. Create a new Source Drill connection by selecting the ‘Insert Row’ button.
3. Enter in a value for all columns in the grid.
4. Once the data is entered, click the Save button.

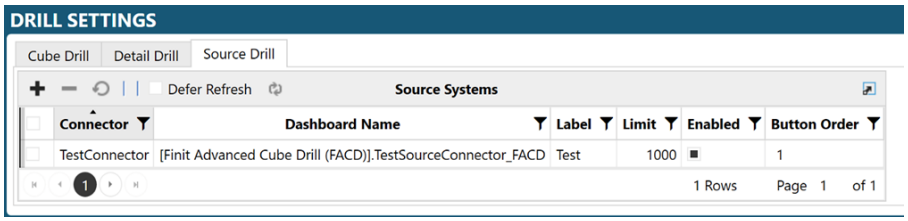


- **Connector**: The Business rule that connects to your source system.
- **Dashboard Name**: The custom dashboard that you want to make visible from OneStream Analytic Drill Down.
    - Ensure dashboard name is prefaced with the applicable Workspace name in brackets followed by a period, as in the example.
- **Label**: The words on the Drill To button.
- **Limit**: The number of records to limit in the query, if there are very large number of results.

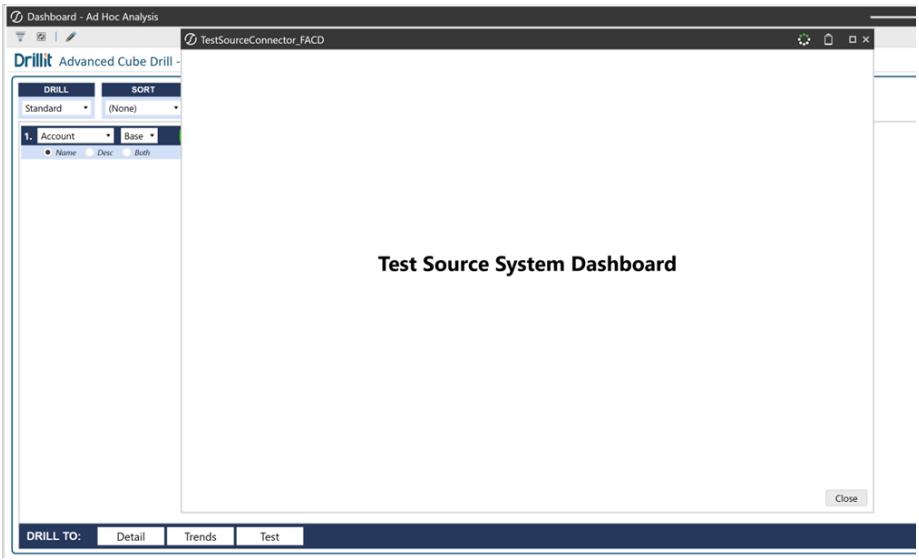
- Default is 0, which returns all records.

- **Enabled**: Only connections that are enabled will be displayed in OneStream Analytic Drill Down.
- **Button Order**: The order the custom buttons are displayed in OneStream Analytic Drill Down.
  - Should only have a value of 1-4 for the enabled connections.

Example: Create New Source Drill



The example above uses a test connector provided as part of the solution installation. If you want to test the functionality, set “Enabled”=True, “Button Order”=1,”Label”=Test. Only connections that are enabled will be displayed in OneStream Analytic Drill Down.

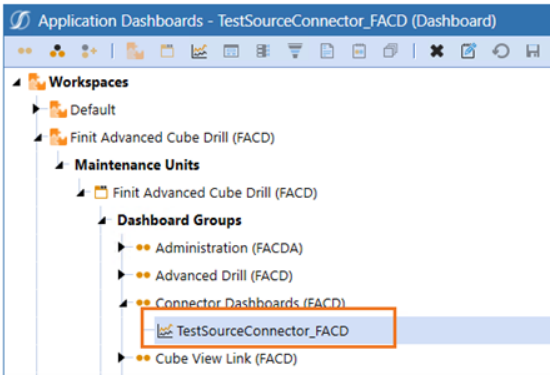


Step 2: Create the Dashboard entered in Step 1.

Create a dashboard, if it does not already exist, as named in Step 1 under the “Dashboard Name” column.

It is recommended to create non-test dashboards outside of the “Finit Advanced Cube Drill (FACD)” Workspace so the dashboard is not deleted upon a solution upgrade.

The example below is from the provided test connection.



Step 3: Consume the OneStream Analytic Drill Down POV in the Source Connection Dashboard

When a OneStream Analytic Drill Down amount is selected, and a Source Connector is clicked, the selected POV information is saved by OneStream Analytic Drill Down and can be accessed easily with some small updates to the Business Rule code. See Connect OneStream Analytic Drill Down to Existing Source Drill Business Rules.

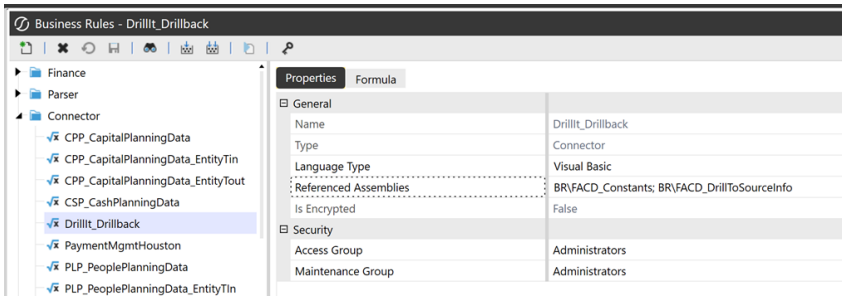
Connecting OneStream Analytic Drill Down to Existing Source Drill Business Rules

To link OneStream Analytic Drill Down to your custom Source Drill, you'll need to update your existing business rule.

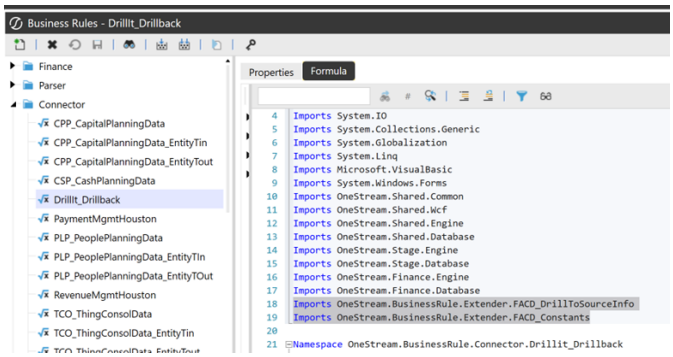
To access or consume detailed point-of-view (POV) information behind the amount drilled into, you will need to access the DrillToSourceInfo class within the FACD_DrillToSourceInfo business rule. To do this within a business rule, follow the steps below using VB.NET as an example.

Step 1: Add OneStream Analytic Drill Down Imports to Your Existing Business Rule

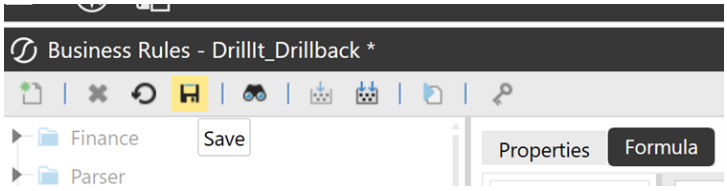
1. Navigate to the existing connector business rule and reference to the OneStream Analytic Drill Down assemblies.
    a. On the Properties tab, under General > Referenced Assemblies, add the following: BR\FACD_Constants; BR\FACD_DrillToSourceInfo



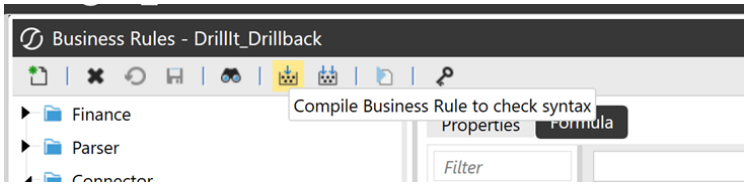
2. Navigate to the Formula tab and add the Import statements for OneStream Analytic Drill Down at the top of the business rule:
    a. Imports OneStream.BusinessRule.Extender.FACD_DrillToSourceInfo
    b. Imports OneStream.BusinessRule.Extender.FACD_Constants

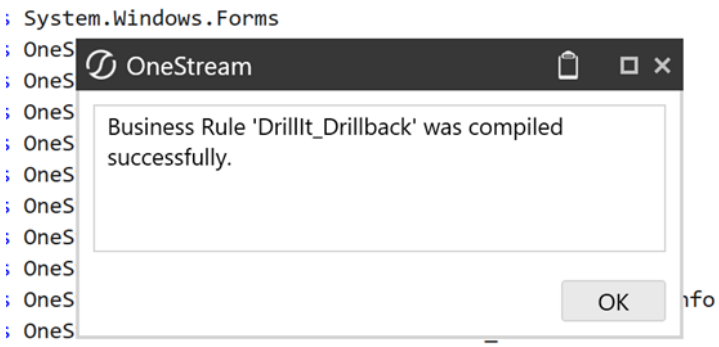


3. Save the business rule by clicking the Save button in the toolbar.



4. Compile the business Rule to check syntax. You will get a success message if done correctly.





Step 2: Create an Instance of the DrillToSourceInfo class

In the body of the business rule, create an instance of the DrillToSourceInfo class.

Dim srcDrill As New DrillToSourceInfo(si)

Step 3: Access DrillToSourceInfo Class Functions

Access the function of this class for detail behind the POV selected in OneStream Analytic Drill Down that can be used to query a source system. Below are the available functions, along with return format, and select examples of information returned.

SessionStatePOVString() [String]

This function returns as a string the POV selected in OneStream Analytic Drill Down.

```
Cb#GolfStream:E#Total GolfStream:C#Local:S#Actual:T#2022M1:V#YTD:A#41000:F#None:O#Top:I#Top:U1#Top:U2#Top:U3#Top:U4#Top:U5#None:U6#None:U7#None:U8#None
```

TargetPOVFieldNames() [Dictionary(Of POVField, String)]

This function returns a dictionary of POVField, or dimension, and member name. This is often easier to use than the SessionStatePOVString which would need to be parsed to assess the individual dimension member names.

```
TargetPOVFieldNames (Dictionary(Of POVField, String) = Cube,GolfStream; Entity,Houston; Consolidation,Top; Scenario,Actual;
Time,2018M3; View,YTD; Account,69000; Flow,None; Origin,Top; IC,Top; UD1,Top; UD2,Top; UD3,Top; UD4,Top; UD5,None; UD6,None;
UD7,None; UD8,None;
```

Using the example class declaration above, the code, srcDrill.TargetPOVFieldNames (POVField.Scenario), would return the string “Actual”.

TargetPOVFieldIds() [Dictionary(Of POVField, Integer)]

This function is similar to “TargetPOVFieldNames“ except instead of returning member names, member Ids are returned as an integer.

```
TargetPOVFieldIds (Dictionary(Of POVField, Integer) = Cube,12; Entity,35651584; Consolidation,-100; Scenario,1048578;
Time,2018005000; View,3; Account,49283318; Flow,-999; Origin,-100; IC,-100; UD1,24117277; UD2,18874398; UD3,15728655;
UD4,11534336; UD5,-999; UD6,-999; UD7,-999; UD8,-999;
```

StageDataWithAttributesTable() [Datatable]

This function returns as a datable all detail stage data records behind the selected POV, including available attributes.

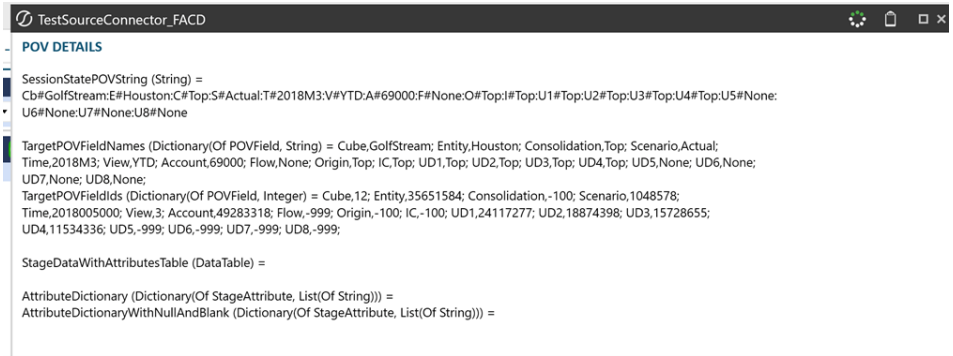
AttributeDictionaryWithNullAndBlank() [Dictionary(Of StageAttribute, List(Of String)]

The AttributeDictionaryWithNullAndBlank can be used to access lists of distinct values by attribute. This can be used in cases where the source system records are mapped based on values from the stage attributes. Let's take an example where attribute #1 is used to map from the OneStream account to the source system account. In this example, all stage records for OneStream account 41000 have a value in A1 "41000.001" denoting that the OneStream account 41000 maps to source system 41000.001. To access the string "41000.001" you could use the following code, using again the class declaration example above.

srcDrill.AttributeDictionaryWithNullAndBlank() [StageAttribute.A1]

This function will return a value, even if it's blank, for all attributes, even if they are not used, or null, in the stage table for the selected POV.

AttributeDictionary() [Dictionary(Of StageAttribute, List(Of String)]

This function is very similar to the "AttributeDictionaryWithNullAndBlank" function except that null values will be returned for StageAttributes with no values because of a lack of records in stage.

Example: Results from DrillToSourceInfo Class Functions