

Altair Panopticon™ v2024.0
ANALYST CLIENT USER GUIDE

TABLE OF CONTENTS

[1] ALTAIR PANOPTICON WORKBOOKS	1
The Welcome Page.....	1
Accessing Workbooks.....	2
Searching for Workbooks.....	5
Folders and Workbooks Display View.....	7
Sorting Workbooks	9
Workbook Elements.....	11
Context Menu	12
Table Column Filtering	15
Automatic Parameterization	16
Action	18
Visualization Filtering.....	20
Viewing Active Filters	21
Drilling into Visualizations.....	22
Data Export	23
Rubber Band Zoom and Selection	24
Zooming In and Out with Mouse Wheel.....	29
Panning Around Within the Zoomed Area	31
Variable Visibility	31
Pinning Details Pop-up.....	33
Adjust Column Width in the Table Visualization	35
Hide or Display Columns in the Table Visualization	37
Displaying a Hierarchy Column in the Table Visualization.....	38
Additional Table Operations.....	40
Adjust Width of the Text Axis Leaf in Table Visualizations	40
Move Columns in the Table Visualization.....	41
Visual Table Sorting	42
Setting Snapshot Time in a Time Series Visualization.....	43
Visualization Header Controls.....	46
Exporting to Excel (TSV-format) of Visualizations	47
Toggling Between a Visualization and a Table.....	47
Maximize	50
Drilling Into, Sorting, Removing, Adding, and Swapping Columns in a Breakdown and Cross Tab Points	50
Drilling into Hierarchy Displays.....	51
Removing Breakdown or Cross Tab Columns.....	52
Adding Breakdown or Cross Tab Columns.....	53
Moving Breakdown Columns.....	54
Toggling Between Rows and Columns of a Cross Tab	56
Dynamic Switching of Workbook Theme	56
Workbook Toolbar.....	57
Copying Dashboard Image	58
Ad Hoc PDF Generation	58

Bookmarking.....	60
[2] ALERTING	64
Setting Up Alerts on the Web Client	65
Sample Email Alerts.....	70
Sample Web Client Alerts	71
[3] WEBHOOKS	75
Folders and Webhooks Display View	76
Searching for Webhooks.....	77
Creating Webhooks.....	77
Webhooks Toolbar and Context Menu.....	80
Sorting Webhooks	81
Renaming a Webhook	82
Moving Webhooks	83
Copying Webhooks.....	84
Deleting Webhooks.....	85
Triggering Webhooks.....	86
[4] PANOPTICON RESOURCES	87

[1] ALTAIR PANOPTICON WORKBOOKS

THE WELCOME PAGE

The *Welcome* page is the first screen that displays when you log on to Panopticon Real Time. This page can also be accessed by clicking the **Altair Panopticon** logo on the header.

Altair Panopticon Workbooks Webhooks Alerts V

Welcome, viewer

Recent Workbooks [See All Workbooks](#)

Axis Graphs
Organization\
Viewed 2 months ago

How to Conflate Time Series Datasets
Organization\
Viewed 2 months ago

Getting Started

Explore

Panopticon lets you organize your workbooks and data in folders. Click to explore all the content available within your organization.

[Explore Workbooks](#)

Quick Start

Get familiar with concepts and features of the Panopticon web client in just a few minutes.

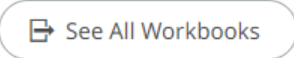
[Open Quick Start](#)

Documentation

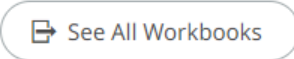
Find user guides, release notes, fact sheets, and installation instructions here.

[Open Documentation](#)

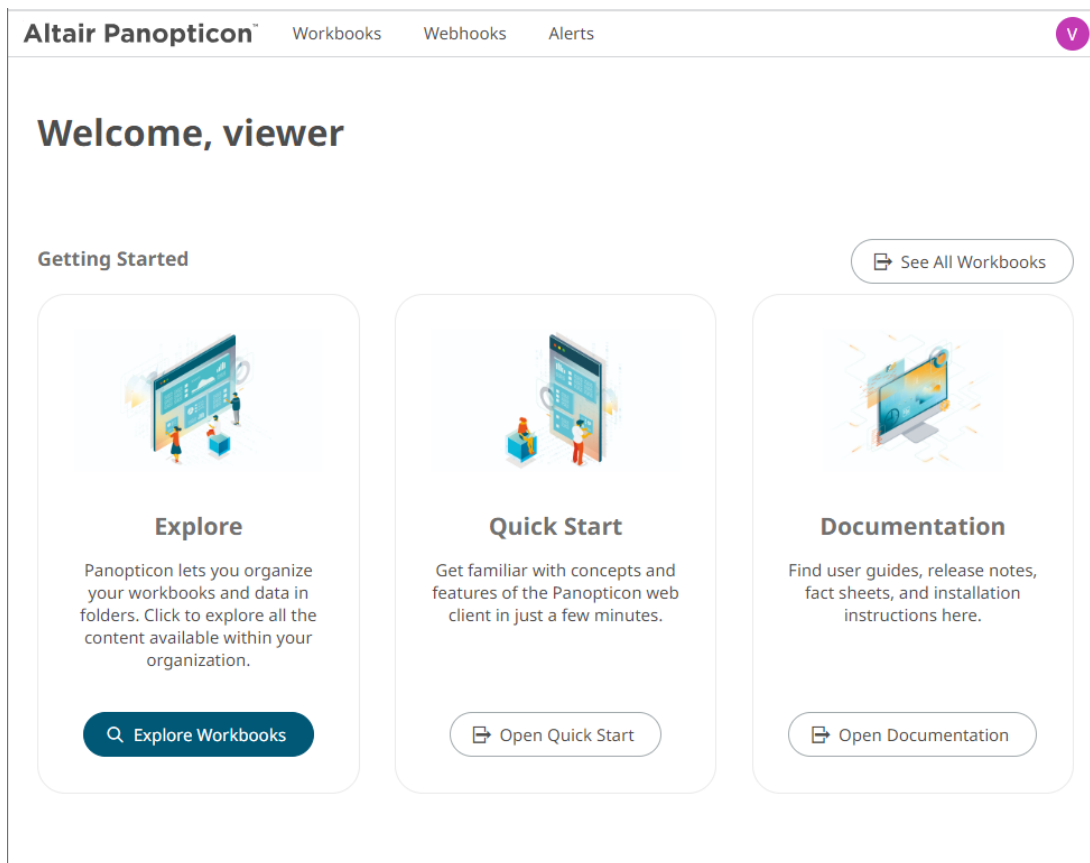
From this page you can:

- ❑ Click  to go to the *Workbooks* page
- ❑ Open recently viewed workbooks (if available)
- ❑ [Explore workbooks available in your organization](#)
- ❑ [Open the Analyst User Guide](#)
- ❑ [View online documentation and help](#)

If there are no recently viewed workbooks, header.



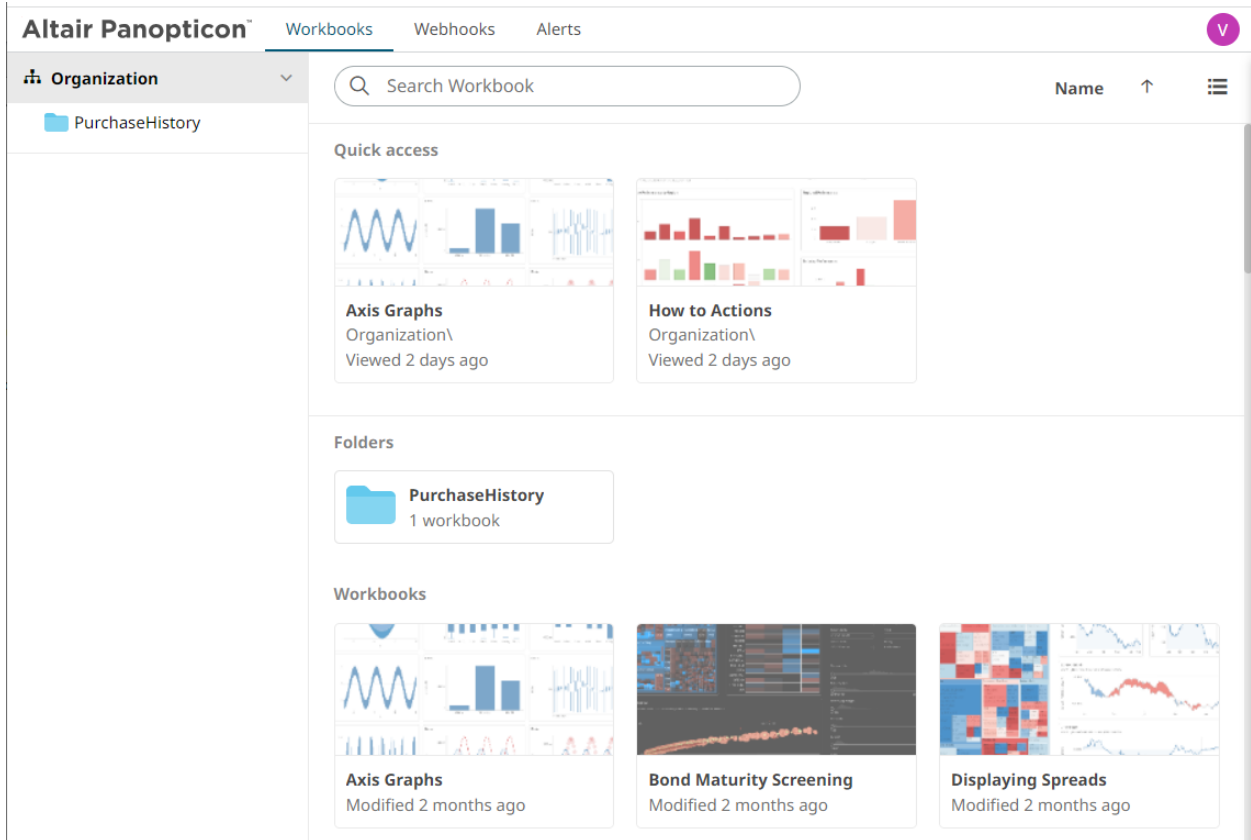
is displayed parallel to the *Getting Started*



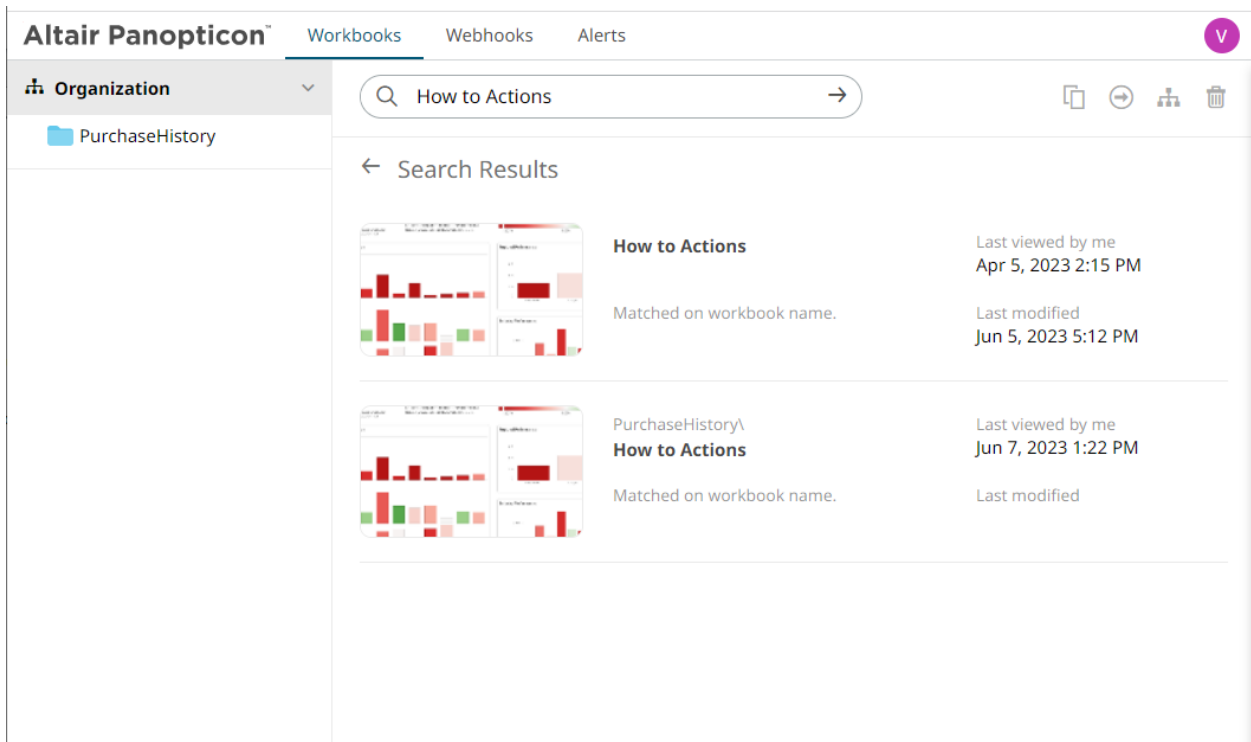
ACCESSING WORKBOOKS

The **Workbooks** page lists available folders and uploaded or published workbooks in *Grid View*.

- ❑ The *Folders* include their names and the number of available workbooks.
- ❑ The *Workbooks* include their titles, thumbnail images, and when they were last updated.



Enter text in the *Search Workbooks* box to filter the workbook thumbnails.



Clicking on the workbook thumbnail opens it on the *Open Workbook in View Mode*:



Actions on this dashboard:

1) Navigation Action to pass values for parameters used on the dashboard Scatter of Filtered Universe.

Click on the dashboard surface, then the Workbook tab in the settings panel, then the Actions pill to view existing actions.

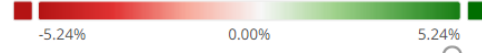
2) URL Actions to open web pages contextually.

Control-click several items to include multiple values.

3) Script Actions to execute

Double-clicking after drilling to the

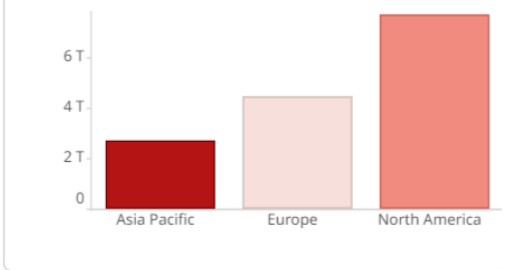
1 Day Change % (USD)



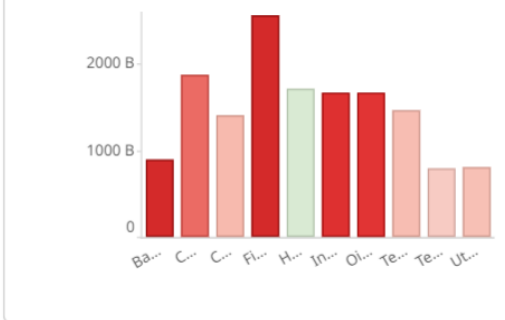
Industry Performance by Region




Regional Performance

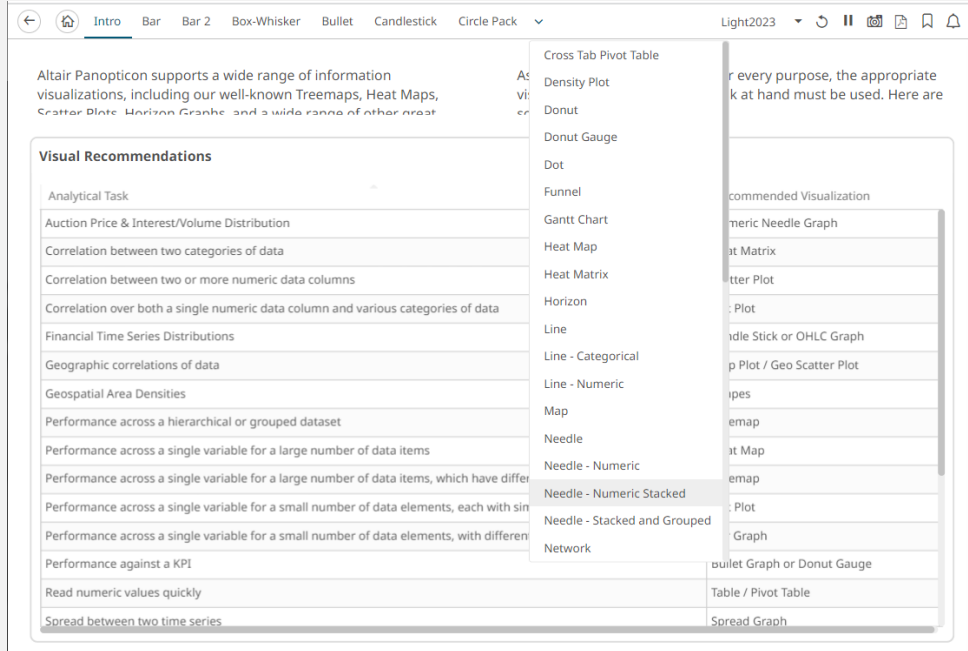


Industry Performance



NOTE

The  signifies there are more dashboards in a workbook that can be opened. Click this icon to expand the drop-down list and display all of the available dashboards and select one to display.




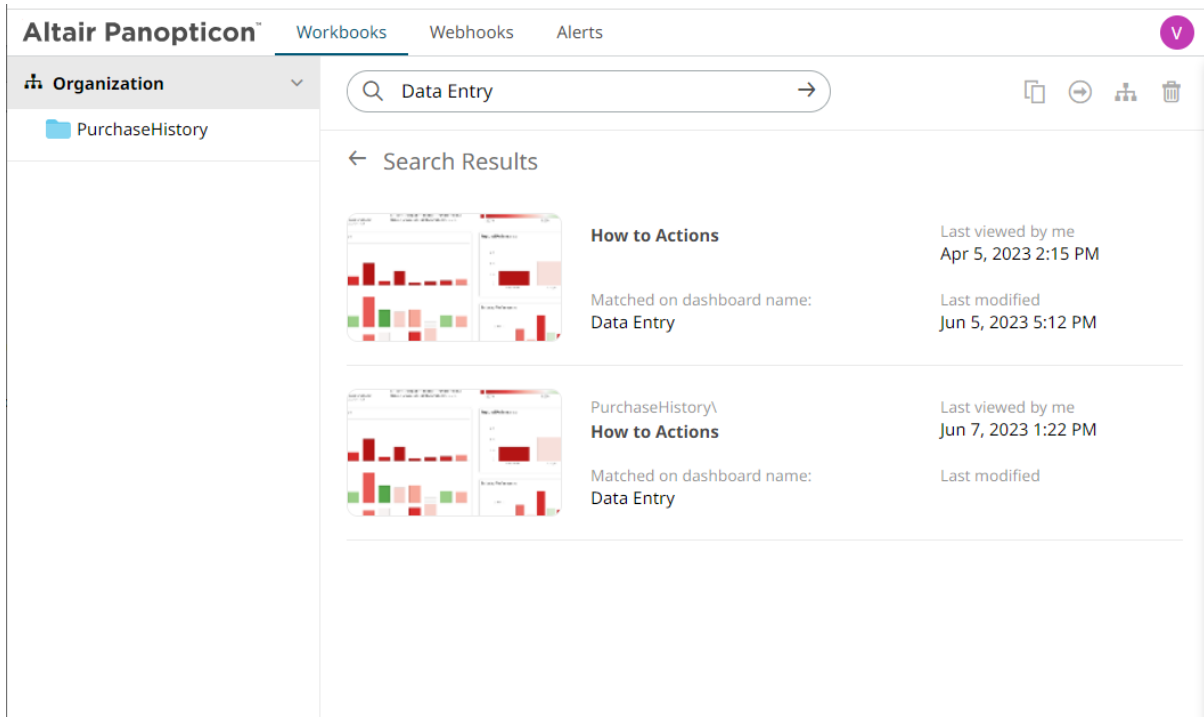
The opened workbooks are then displayed on the *Quick Access* panel.

SEARCHING FOR WORKBOOKS

Search for workbooks that may be located in different folders.

Steps:

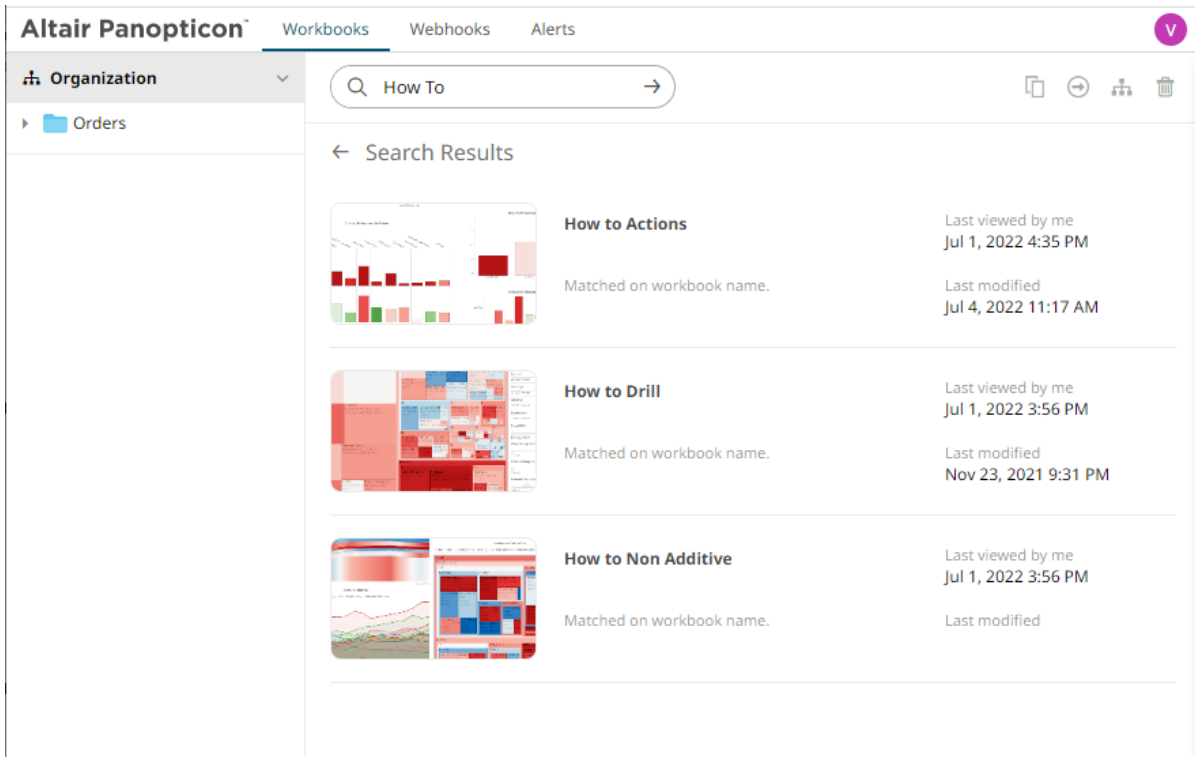
1. On the *Workbooks and Folders Summary* layout, click on a workbook folder then enter a workbook name or dashboard name in the *Search Workbook* box.
2. Click .



The following information are displayed for each workbook:

- Folder where the workbook is located.
- What the search match was based on: workbook or dashboard name.
- Date/Time when the workbook was last viewed
- Date/Time when the workbook was last modified

You can also enter one or more characters into the *Search Workbook* box then click **Enter**. The list of workbooks that matched the entries will be displayed.




Click on a workbook thumbnail to open and display it on the web browser.

To go back to the *Workbooks and Folders Summary* layout, click  .

Folders and Workbooks Display View

Workbooks can be displayed either on a *List* or *Grid View*.


On the *Toolbar*, click **List View**  , the folders and workbooks are displayed in a standard listing.

Altair Panopticon™ Workbooks Webhooks Alerts


Organization ▼ Search Workbook

PurchaseHistory

Quick access








Axis Graphs
Organization\
Viewed 2 days ago




How to Actions
Organization\
Viewed 2 days ago

PurchaseHistory

<input type="checkbox"/>	Name ↑	Last viewed by me	Last published
	Axis Graphs	Jun 5, 2023 5:12 PM	Apr 5, 2023 2:15 PM
	Bond Maturity Screening		Apr 5, 2023 2:15 PM
	Displaying Spreads		Apr 5, 2023 2:15 PM
	Equity Analysis		Apr 5, 2023 2:15 PM


Or click **Grid View**  . The folders and workbooks are displayed as thumbnails.

Altair Panopticon™ Workbooks Webhooks Alerts


Organization ▼ Search Workbook Name ↑ 

PurchaseHistory

Quick access




Axis Graphs
Organization\
Viewed 2 days ago




How to Actions
Organization\
Viewed 2 days ago

Folders

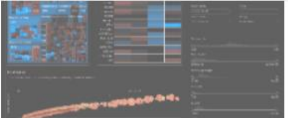


PurchaseHistory
1 workbook


Workbooks



Axis Graphs
Modified 2 months ago



Bond Maturity Screening
Modified 2 months ago



Displaying Spreads
Modified 2 months ago

On either display view style, clicking on a workbook title or thumbnail displays the workbook on the *Open Workbook in View Mode*.

Sorting Workbooks

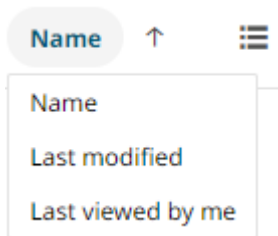
Sorting workbooks can be done by *Name*, *Last Viewed/Last Published*, or *Last Viewed by Me*.

Steps:

On the *Folders and Workbooks Summary* layout, either:



- ❑ click the **Sort By** option on the *Toolbar* of the *Grid View*

By default, the sorting is by **Name**.



- Name
- Last Modified
- Last Viewed By Me

Then click the *Sort Order*:

-  Ascending
-  Descending


- ❑ click on the **Name**, **Last Viewed By Me**, or **Last Published** column header of the *List View*

Altair Panopticon™ Workbooks Webhooks Alerts


Organization

PurchaseHistory

Quick access







Axis Graphs
Organization\
Viewed 2 days ago





How to Actions
Organization\
Viewed 2 days ago

PurchaseHistory

<input type="checkbox"/>	Name ↑	Last viewed by me	Last published
<input type="checkbox"/>	 Axis Graphs	Jun 5, 2023 5:12 PM	Apr 5, 2023 2:15 PM
<input type="checkbox"/>	 Bond Maturity Screening		Apr 5, 2023 2:15 PM
<input type="checkbox"/>	 Displaying Spreads		Apr 5, 2023 2:15 PM
<input type="checkbox"/>	 Equity Analysis		Apr 5, 2023 2:15 PM

Then click the *Sort Order*:

-  Ascending
-  Descending

WORKBOOK ELEMENTS

- ❑ Each workbook may contain several dashboards.
- ❑ Each dashboard in a workbook may contain multiple visualizations, legends, and filters.
- ❑ Each dashboard shows up as a tab at the top of the screen. Click on the dashboard tab you want to use.

Back to Welcome Page

Workbook Tabs

Workbook Theme

Toolbar

Filter

Context Menu

Back to Workbook Folder

Hierarchy Pivot Point (Rows/Columns)

Rubber Band Zoom, Export Excel, Toggle Display, Maximize

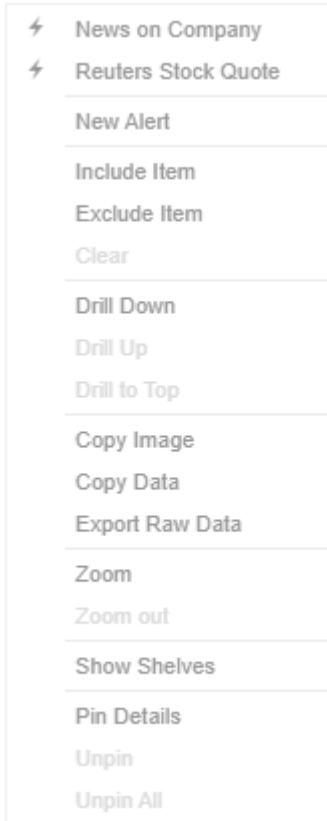
Show Details

Symbol	Name	Forex	Cl	Data Log	Mcap(USD)	1 Da
7203.T	Toyota Motor Corp.	JPY	3,120.00	9,295,162,468,775	\$94,109,167,072	
8306.T	Mitsubishi UFJ Financial Group Inc.	JPY	476.00	5,506,165,694,288	\$55,747,349,117	
7267.T	Honda Motor Co. Ltd.	JPY	2,315.00	4,231,237,615,450	\$42,839,299,368	
9501.T	Tokyo Electric Power Co. Inc.	JPY	2,460.00	3,323,453,926,260	\$33,648,414,630	
7751.T	Canon Inc.	JPY	2,820.00	3,316,714,904,289	\$33,580,185,188	
7974.OS	Nintendo Co. Ltd.	JPY	28,450.00	3,246,251,630,600	\$32,866,777,540	
8316.T	Sumitomo Mitsui Financial Group Inc.	JPY	3,410.00	2,690,184,464,000	\$27,236,857,885	

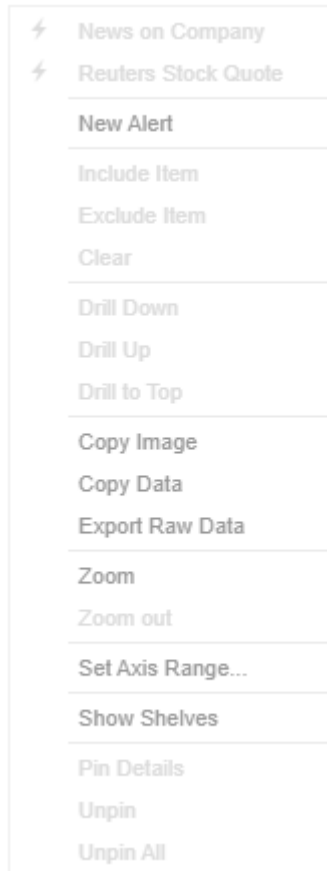
Users can interact with the workbook using the visualization right-click [context menu](#), [header controls](#), shelves, variables and cross tab options.

Context Menu

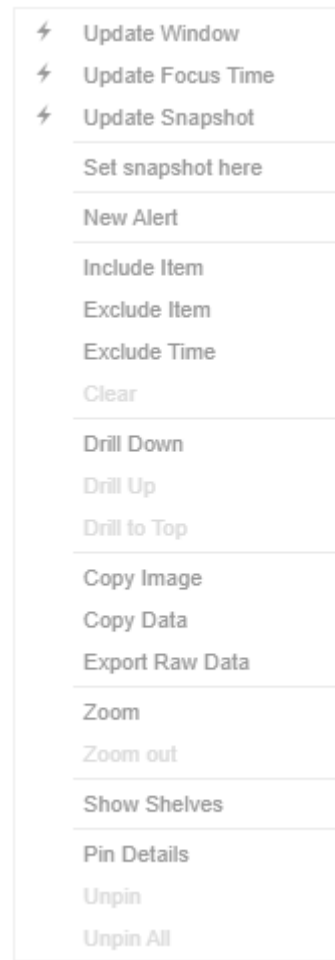
The visualizations in a workbook provide the following right-click menu options:



Visualization Context Menu



Visualization Context Menu of the Numeric Axis



Time Series Visualization Context Menu of the Time Axis

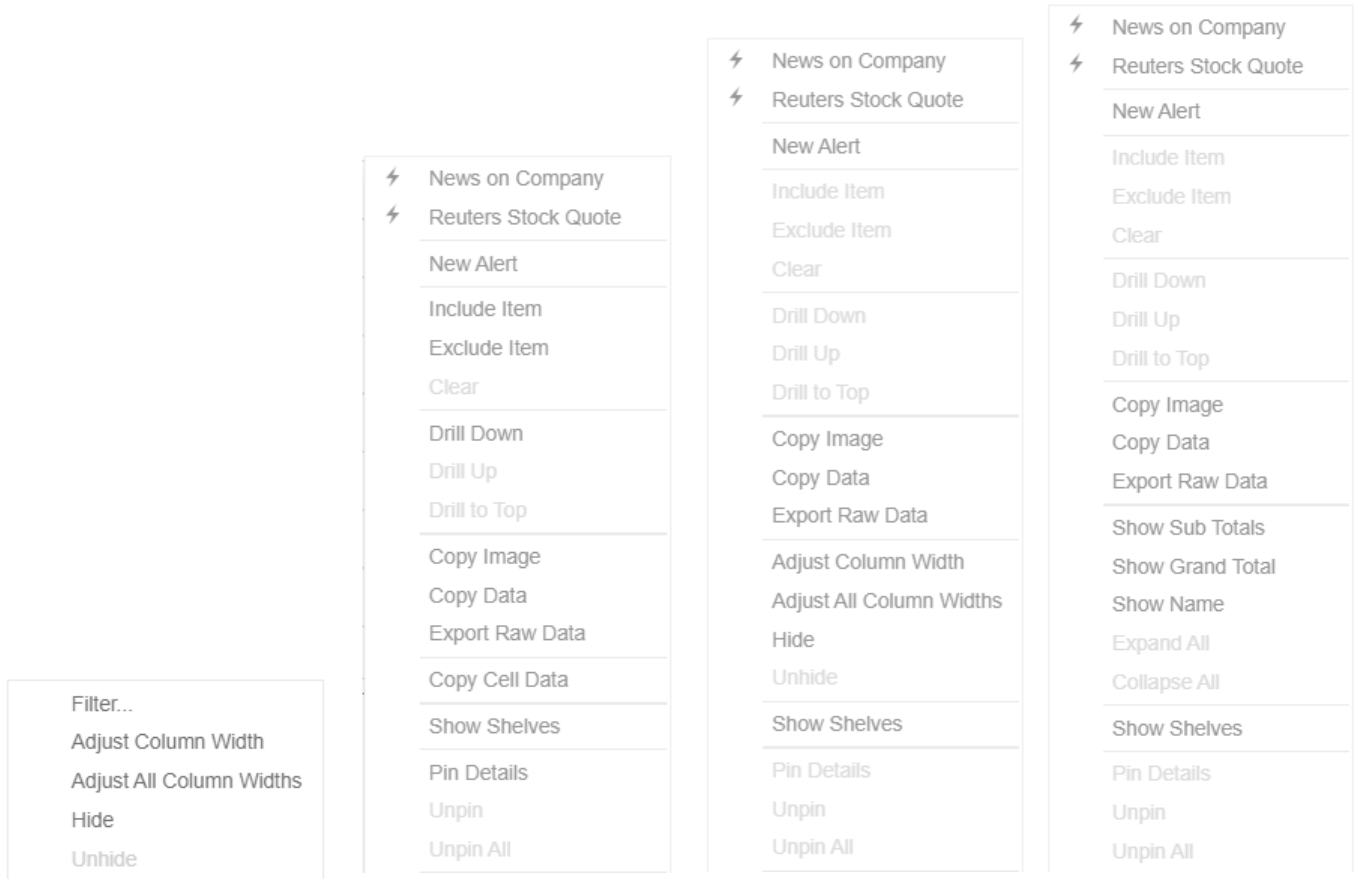


Table visualization context menus depending on where you click on the visualization

Context Menu	Description
Filter	Allows filtering of a table column. NOTE: Applies only to the table visualization not the whole dashboard.
Automatic Parameterization	Run an automatic parameterization.
Actions	Run a workbook action on the visualization.
New Alert	Create an alert .
Visualization Filtering	Allows visualization filtering. Options include: <ul style="list-style-type: none"> Filter Include Filter Exclude Filter Clear
Drilling	Allows drilling into visualizations. Options include: <ul style="list-style-type: none"> Drill Down Drill Up Drill to Top
Data Export	Allows exporting of data. Options include:

	<ul style="list-style-type: none"> • Copy Image • Copy Data • Export Raw Data • Copy Cell Data
Zooming	Allows zooming in and out of visualization sections.
Show Shelves	Available when Enable Shelves is enabled in the visualization's <i>General</i> settings. Either check Show Shelves in the context menu or tap the Shelves slider in the <i>General</i> settings to display cross tab, breakdown, and variable shelves in the visualization.
Pinning	Allows pinning of the <i>Details</i> pop-up. Options include: <ul style="list-style-type: none"> • Pin Details • Unpin • Unpin All

The additional time series visualization context menu options include:

Setting	Description						
Set Snapshot Here	Available in the time series visualization context menu when the Snapshot Grid Line is rendered or set to Dotted , Dashed , or Solid in the Time Axis variable.						
Set Axis Range	<p>Allows setting of the time axis range:</p> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Min Range</td> <td style="width: 30%; text-align: center;">minutes</td> <td style="width: 40%; text-align: center;">0</td> </tr> <tr> <td>Increment Step</td> <td style="text-align: center;">minutes</td> <td style="text-align: center;">0</td> </tr> </table> </div> <ul style="list-style-type: none"> • Min Range The minimum time axis range. Supported units are milliseconds, seconds, minutes, hours, days, months, quarters, and years. • Increment Step Controls how much the time axis span is extended at the point when the latest value is at the end of the current time axis span. Supported units are milliseconds, seconds, minutes, hours, days, months, quarters, and years. This setting helps in seeing how a real-time data set grows from left to right along the time axis, giving a better impression and understanding of the progress. 	Min Range	minutes	0	Increment Step	minutes	0
Min Range	minutes	0					
Increment Step	minutes	0					

The additional Table visualization context menu options include:

Context Menu	Description
Adjust Columns	Adjust column width in the table visualization.
Hide / Unhide Columns	Hide or display columns in the table visualization.
Show Hierarchy Column	Display the hierarchy column.
Expand / Collapse Hierarchy	Expand or collapse sections of the hierarchy.

Show Grand Total	Determines whether the Grand Total aggregate row is shown in the table.
Show Sub Totals	Determines whether Sub Total aggregate rows are shown in the table.
Show <Column>	Display the breakdown column.

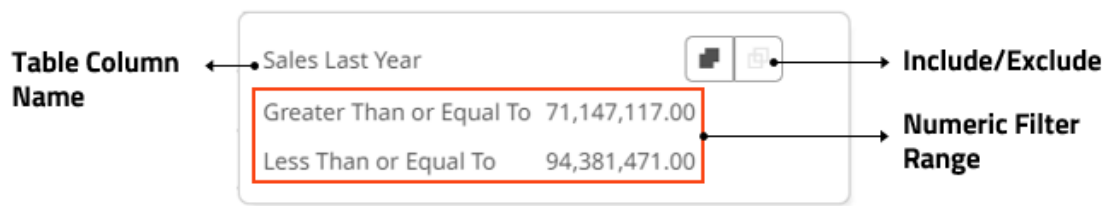
Table Column Filtering

Instead of using a *Filter Box*, you can right-click on a table column header and select **Filter** to perform filtering.



The dialog box that displays will depend on the data column type.

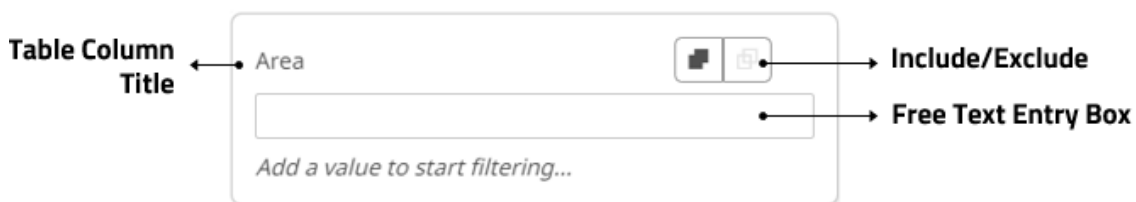
- For numeric columns:



Enter the numeric range filter then click either:

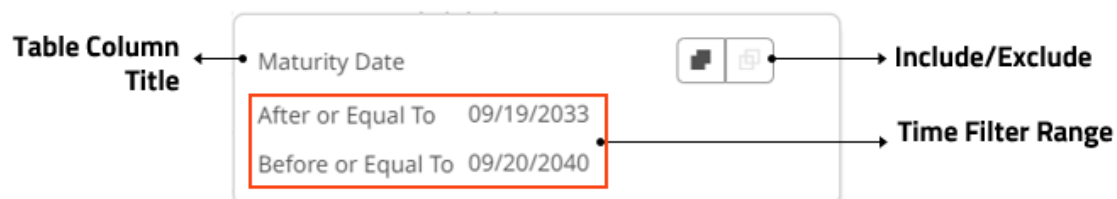
- **Include** to include the entered range, or
- **Exclude** to exclude the entered range.

- For text columns:




This text entry box is the same as the filter in **Include/Exclude** mode.

- For time columns:



Enter the time range filter then click either:

- **Include** to include the entered range, or
- **Exclude** to exclude the entered range.

When a filter is applied on the table columns,  filter icons appear at these places:

- To the right of the table column header



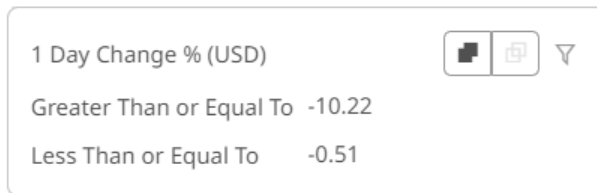
- Table Header Control




- Dashboard toolbar



- Table Column Filter dialog



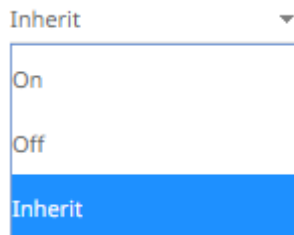
Clicking  will remove the filter.

Also, **Show Active Filters**  icon displays on the Table Header Control. This allows [viewing of all the active filters](#) on the dashboard and its visualizations.


Automatic Parameterization

Determines whether parameters are to be automatically updated or the setting will be inherited from the workbook property.

Workbook designers set this property in the *Dashboard and Workbook Settings* pane.

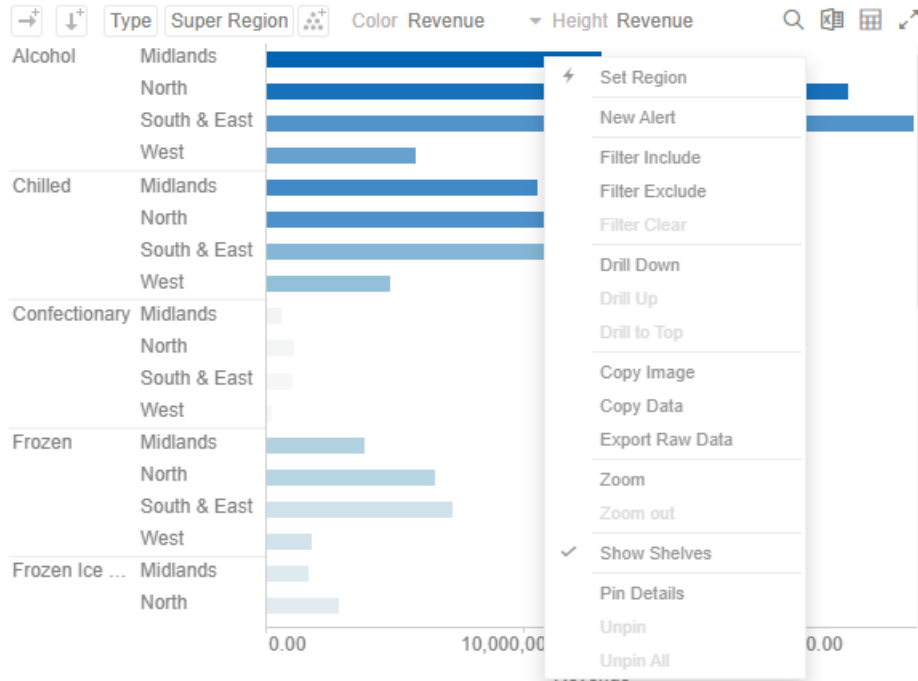


- On

When turned on, parameters can be automatically updated within a dashboard by right-clicking on a visualization item and selecting it from the context menu with the blue lightning  icon.

The dashboard parameter values to be passed will include all possible data table values of the selected visualization.

For example, if there are Region and Industry dashboard parameters, and the associated data table of the visualization has a Region but no Industry column, then the *Automatic Parameterization* option will only include:

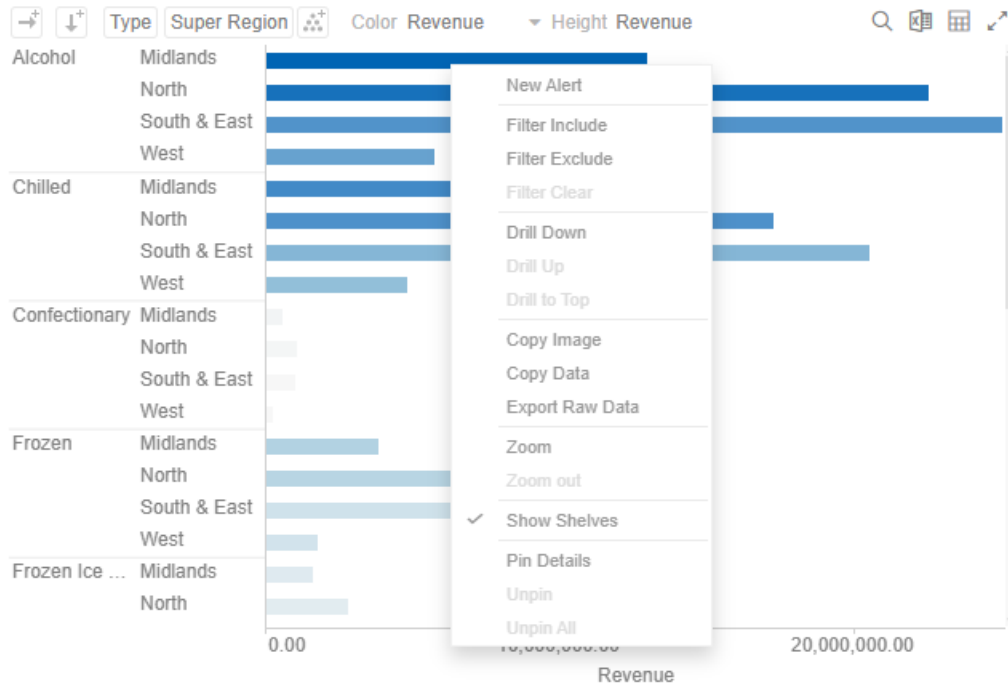


However, if the associated data table of the visualization has Region and Industry columns, then the *Automatic Parameterization* option will include both:



Off

Automatic parameterization on the visualization based on the dashboard parameters is turned off.



In some circumstances, it may be appropriate to disable this automatic parameterization, and instead utilize more configurable navigation [actions](#).

Inherit

The automatic parameterization is inherited from the workbook property.

Action

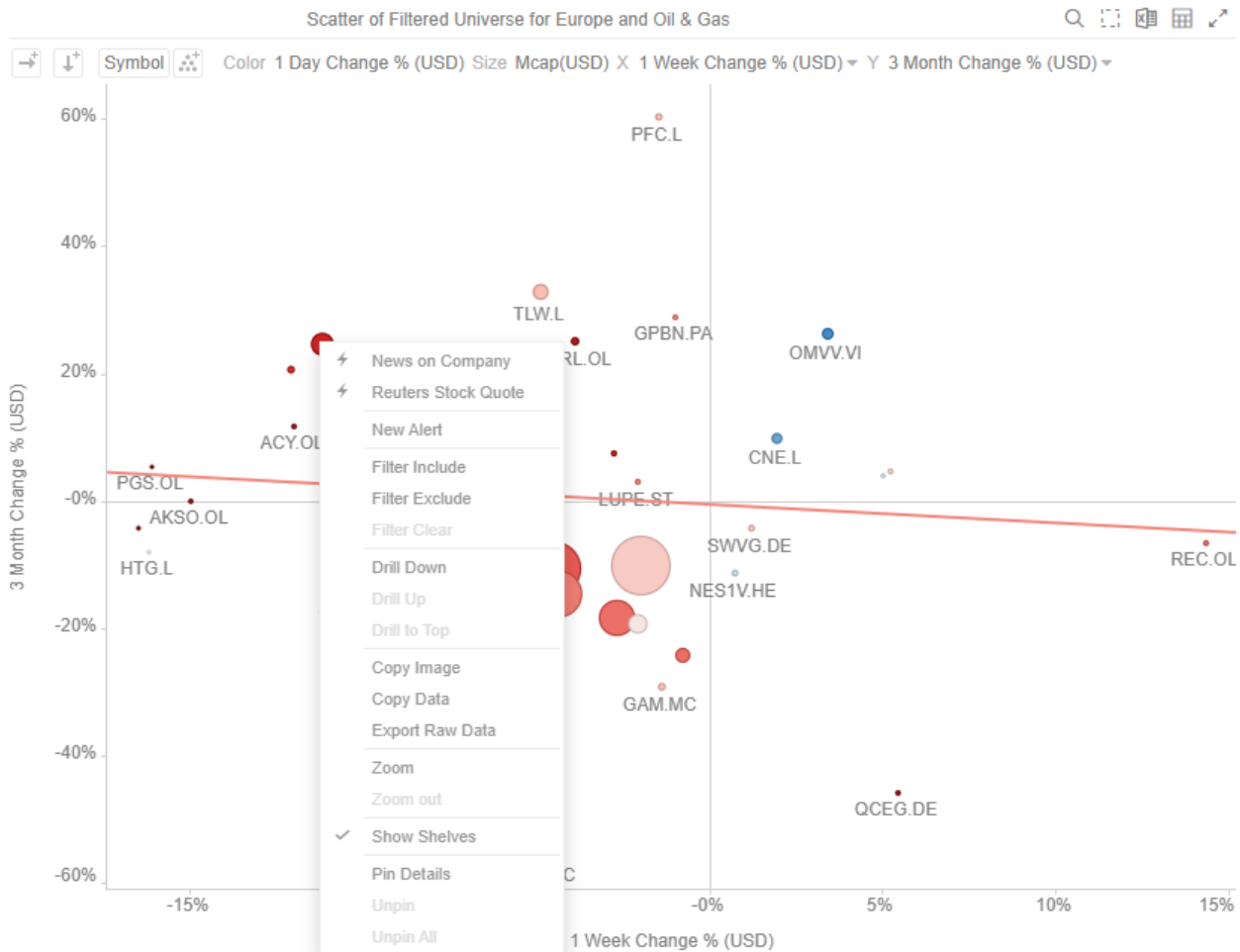
Actions allow Panopticon workbooks to be more interactive:

- Link information in dashboards to external systems
- Use Navigation Actions to pre-filter dashboards
- Open web pages contextually through URL Actions
- Execute JavaScript functions in context using Script Actions

Actions use parameters to pass selected text values to external applications, to JavaScript functions and to other dashboards.

All methods provide the ability to view a summary data set, select particular items of interest and then jump to another data set focused on these particular items. This focused data set may be presented through another tab within the workbook (Navigation Action) or through an external system (URL Actions & Script Actions).

Actions are exposed to the user through the right-click context menu, with the **Action** icon to the left of the Action name.



Within the Panopticon workbook, the focused data set is achieved through the use of parameters in the data set.

Parameters values, must be text and are specified either through:

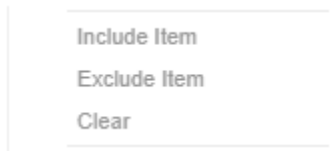
- Default values on the creation of the parameter in the data table
- Values specified as a result of right-clicking on an item and executing an action
- Values specified externally, when a workbook is accessed via the web browser, and the parent web page includes the specified values as inputs
- In the specific case of the parameter `_user_id`, the authenticated username is retrieved.
- In the other special case for the parameters `$TimeWindowStart`, `$TimeWindowEnd`, and `$Snapshot`
- Other special cases for parameters used for zooming allow for `$XAxisValueMin`, `$XAxisValueMax`, `$YAxisValueMin`, and `$YAxisValueMax`

Typically, actions are created once the workbook design has largely been completed, with visualizations added to each **Dashboard** (tab), some being open to all data, and some being parameterized, visualizing data based on the default parameter values.

For a more detailed information about actions, refer to the [Altair Panopticon Web Authoring Guide](#).

Visualization Filtering

Visualizations themselves can be used as filters by selecting items, and right-clicking to display the context menu with these three options:

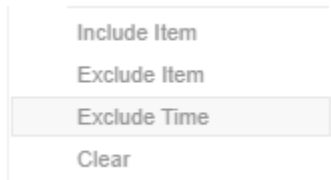


- Include Item** filters the dashboard to include the selected items.
- Exclude Item** filters the dashboard to exclude the selected items.
- Clear** removes any visualization filters.





NOTE


In the Web client, the *Include Item* and *Exclude Item* options are disabled when there is no breakdown, or the root is selected in visualizations.

For time series visualizations, an additional option is available.



Exclude Time filters all the series to exclude the time point/s.

When a visualization filter is applied, filter icons appear at the left of the filter column title  and on the  toolbar of the dashboard. Clicking  or  will remove the filter.

Also, **Show Active Filters**  icon displays on the toolbar. This allows viewing of all the active filters on the dashboard and its visualizations.

Viewing Active Filters

Information on active filters applied on the dashboard and its parts can be viewed.

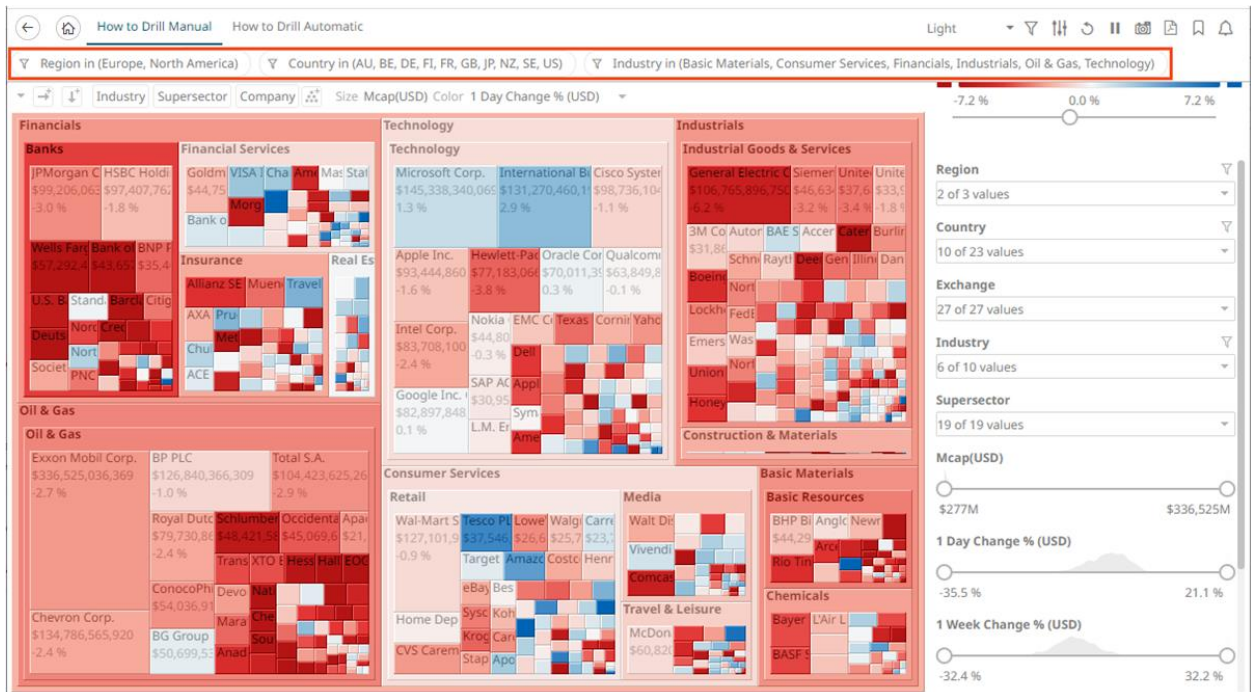
These filters can be done through:

- Filter controls
- Visualization filter

Steps:

1. Click the **Show Active Filters**  icon on the toolbar.

All of the predicates of the active filters are displayed. For this sample, there are three active filters.



2. Hover on any predicate to display its details.

Predicate 1:

 Region in (Europe, North America)

Full Predicate: Region in (Europe, North America)
 Applies to: Portfolio Performance Map
 Generated by: TextFilter for Region in

Predicate 2:

 Country in (AU, BE, DE, FI, FR, GB, JP, NZ, SE, US)

Full Predicate: Country in (AU, BE, DE, FI, FR, GB, JP, NZ, SE, US)
 Applies to: Portfolio Performance Map
 Generated by: TextFilter for Country in

Predicate 3:

▼ Industry in (Basic Materials, Consumer Services, Financials, Industrials, Oil & Gas, Technology)

Full Predicate: Industry in (Basic Materials, Consumer Services, Financials, Industrials, Oil & Gas, Technology)
Applies to: Portfolio Performance Map
Generated by: TextFilter for Industry in

Property	Description
Full Predicate	Predicate details.
Applies To	Parts in the dashboard where the predicate is applied.
Generated By	Source of the predicate which include the filter column data type in the filter control or global filter.

3. To clear any predicate in the list, click ▼ .

Drilling into Visualizations

Visualizations themselves can be used to drill into lower or upper details by selecting items, and right-clicking to display the context menu with three options:



- Drill Down – Drills down to the lower level of the selected value.

NOTE

Drilling without filter (or soft drill) is turned on for all aggregates that refer to:

- Nodes above the node like the parent or root
- Siblings of the node

Applicable to the following aggregates in the *Aggregate* drop-down list:

- Sibling Rank
- Percent of Total
- Percent of Weight Total
- Percent of Parent
- Percent of Weight Parent
- Percent of Total Change
- Cumulative Sum
- Cumulative Sum By Max

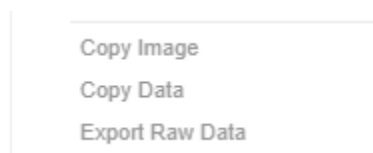
- Drill Up – Enabled when the lower level of the selected item is displayed. Click to drill to the upper level.
- Drill to Top – Drills to the top level of the selected value.

Drilling into visualizations can also be done by double-clicking on a value.

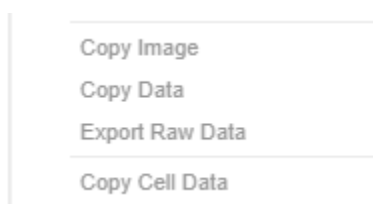
Data Export

The data in a visualization can be exported and copied to a clipboard for future use in another application. In addition, the raw data of the visualization can also be exported.

Visualization Level data is exported by right-clicking on the visualization to display the context menu with two options:



For the Table visualization, **Copy Cell Data** is also available which allows copying of a single cell.

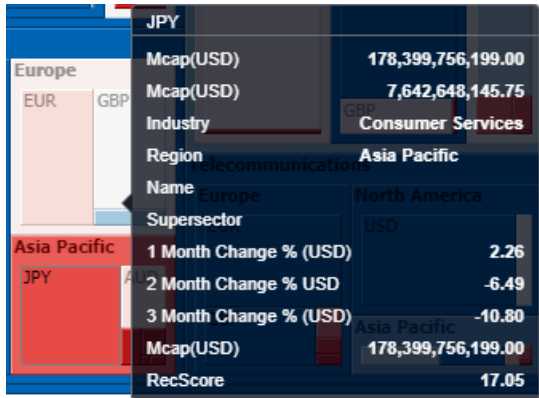


The data exported will be what appears on screen, or in a linked table. Specifically, all the columns that appear in the Detail pop-up, including:

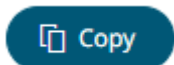
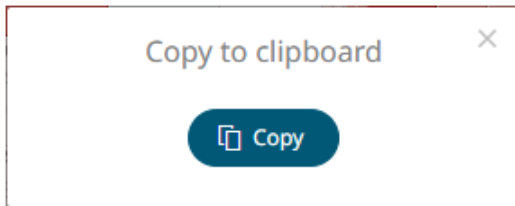
- Only those items that are visible (for example, items that have not been filtered)
- Same Visible detail (or depth) level displayed in the visualization.

	1 Day Change ...	1 Month Chang...	1 Week Change...	Mcap(USD)	RecScore	Target
<input type="checkbox"/> 3i Group PLC Financials	0.04	0.35	0.01	1,488,911,563.00	0.42	12.00
<input type="checkbox"/> 3M Co. Industrials	-0.01	0.07	0.01	31,869,237,156.00	0.25	12.00
<input type="checkbox"/> 77 Bank Ltd. Financials	-0.06	0.06	-0.03	1,855,149,668.00	0.39	12.00
<input type="checkbox"/> A.P. Moller-... Industrials	-0.01	-0.09	-0.08	4,742,697,140.00	0.32	12.00
<input type="checkbox"/> A2A S.p.A. Utilities	-0.04	0.00	-0.05	1,906,029,009.00	0.28	12.00
<input type="checkbox"/> ABB Ltd. Industrials	0.01	0.16	-0.02	32,461,622,181.00	0.36	12.00
<input type="checkbox"/> Abbott Labo... Health Care	0.02	-0.06	-0.02	73,392,451,232.00	0.36	12.00
<input type="checkbox"/> ABC-Mart Inc. Consumer Go...	-0.06	-0.10	-0.03	556,753,517.00	0.26	12.00
<input type="checkbox"/> Aberdeen A... Financials	0.00	-0.05	-0.09	1,310,061,051.00	0.34	12.00
<input type="checkbox"/> Abertis Infr... Industrials	-0.01	0.08	-0.04	4,574,542,373.00	0.28	12.00
<input type="checkbox"/> Accenture L... Industrials	-0.01	0.03	-0.13	17,063,968,693.00	0.37	12.00
<input type="checkbox"/> Acciona S.A. Industrials	-0.05	0.02	-0.12	2,628,978,079.00	0.38	12.00

Data for a single item can be exported by selecting the item.



Right-clicking and selecting **Copy Data** on the context menu displays the **Copy to Clipboard** button.

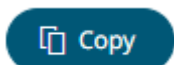
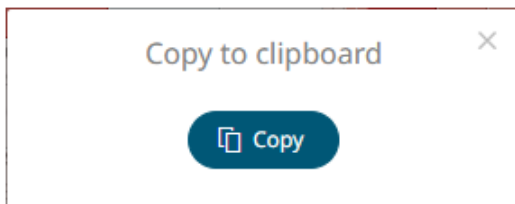


Click **Copy** to copy and paste the data to another application such as MS Excel.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Industry	Region	Forex	Mcap(USD)	Mcap(USD)	Industry	Region	Name	Supersector	1 Month C	2 Month C	3 Month C	Mcap(USD)	RecScore
2	Consumer Services	Asia Pacific	JPY	178,399,756,199.00	7,642,648,145.75	Consumer Services	Asia Pacific			2.26	-6.49	-10.8	178,399,756,199.00	17.05
3	Consumer Services	Asia Pacific	AUD	50,133,333,497.00	12,936,271,602.96	Consumer Services	Asia Pacific			2.6	1.97	-0.18	50,133,333,497.00	4.97
4	Consumer Services	Asia Pacific	HKD	13,911,773,856.00	3,591,228,903.73	Consumer Services	Asia Pacific			0.12	-0.25	-0.2	13,911,773,856.00	1.7
5	Consumer Services	Asia Pacific	SGD	11,526,400,942.00	2,272,641,412.37	Consumer Services	Asia Pacific			0.57	-0.1	-0.5	11,526,400,942.00	2.22
6	Consumer Services	Asia Pacific	USD	1,290,851,336.00	1,290,851,336.00	Consumer Services	Asia Pacific	Dairy Farm Intern	Retail	0.01	0.01	0.03	1,290,851,336.00	0.32
7	Consumer Services	Asia Pacific	NZD	764,739,495.00	764,739,495.00	Consumer Services	Asia Pacific	Sky City Entertain	Travel & Leisure	0.18	0.02	-0.09	764,739,495.00	0.4

If **Export Raw Data** is selected, all the data from the source data table is exported, and not just the actively displayed nodes within a visualization.

Right-clicking and selecting **Copy Image** on the context menu displays the **Copy to Clipboard** button.

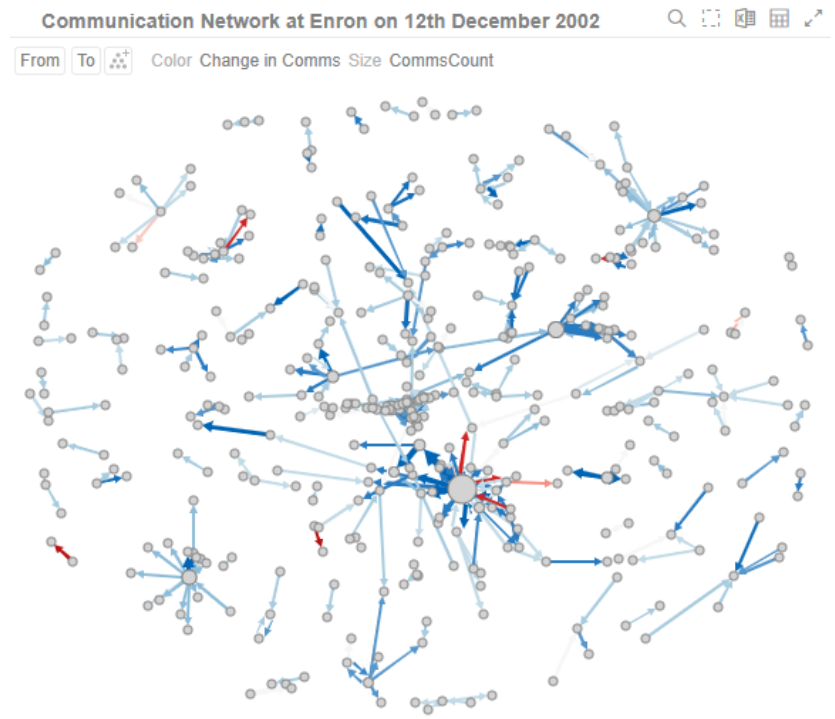


Click **Copy** to copy and paste the whole dashboard image to another application.



Rubber Band Zoom and Selection

Rubber Band Selection allows multiple items to be selected or lassoed by defining an area with the mouse. When selected, the mouse pointer is displayed as a crosshair. Clicking and dragging the mouse defines the selected area in grey. Once confirmed the selected items are highlighted. This selection option is available in the Network Graph visualization.

Before

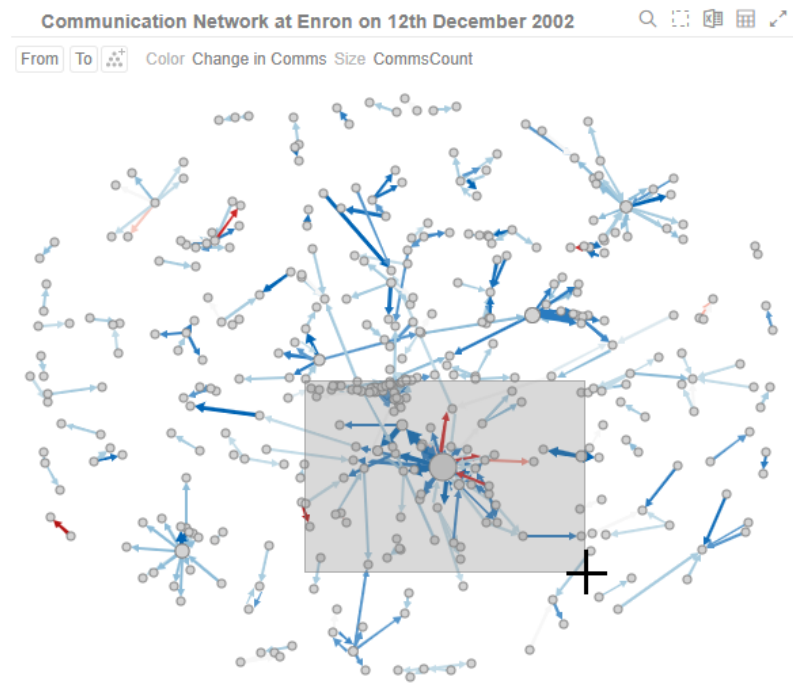


Before selection

Click the **Rubber Band Selection**  icon on the header control. The mouse turns into a crosshair .

During

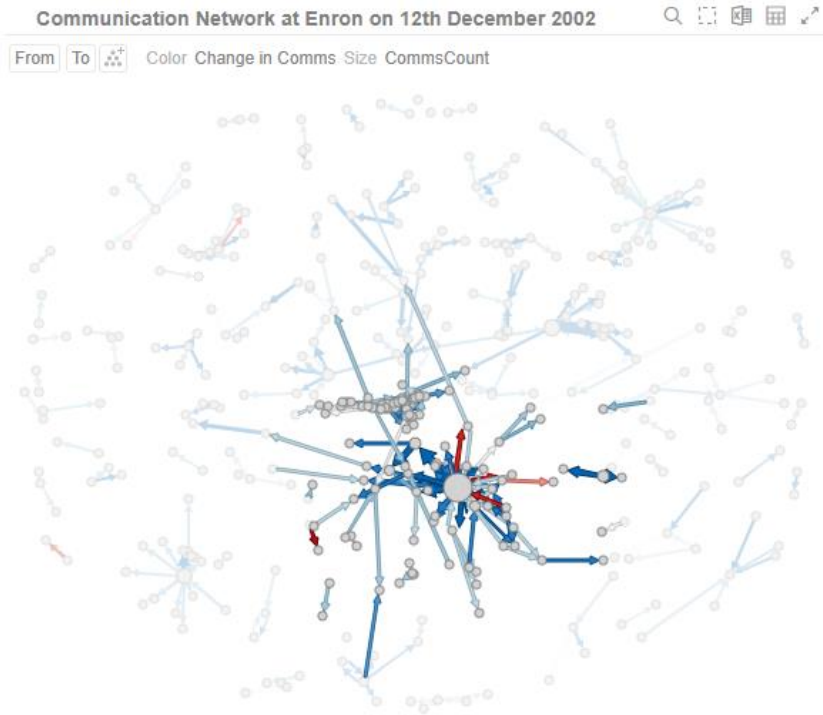
Mouse pointer has been dragged to define an area of interest.



During selection

After

The selected items are highlighted.



After selection

To unselect, click on any part of the visualization.

Rubber Band Zoom is supported for visualizations that have:

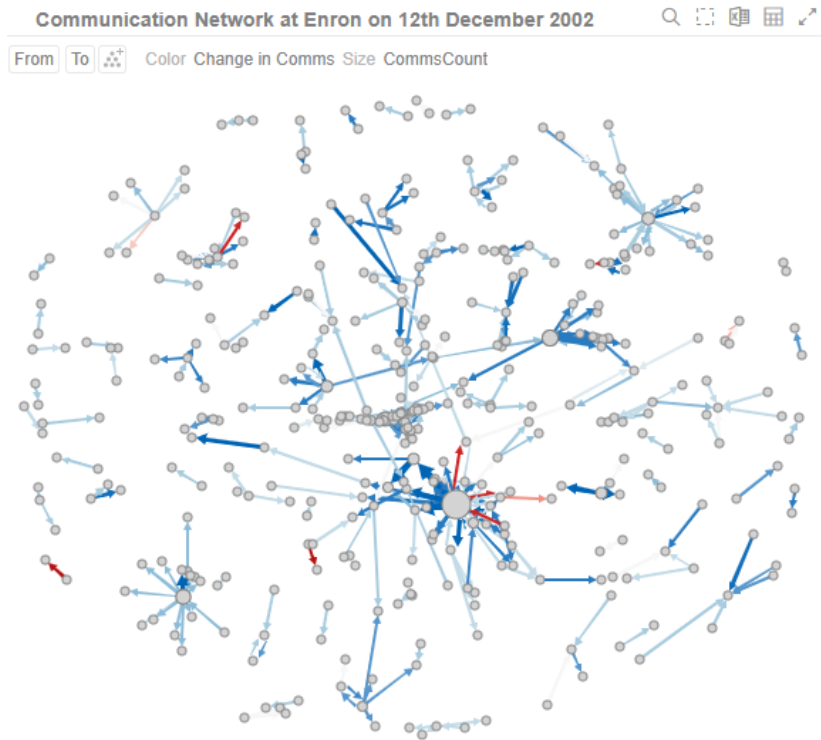
- Numeric X and Y axes
- Date/Time X and Y axes

These are Candle Stick, Line Graph, Needle Graph, Network Graph, Numeric Line Graph, Numeric Needle Graph, Numeric Stacked Needle, OHLC Graph, Order Book, Price Band, Scatter Plot, Spread Graph, Stacked Needle Graph, Timeseries Combination, and Timeseries Scatter Plot visualizations.

NOTE

When the cross tab consists of two Text axes, Rubber Band Zoom is not available.

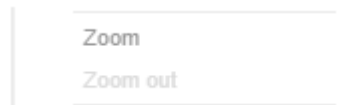
Before




Before zooming

You can either:

- select **Zoom** in the context menu, or

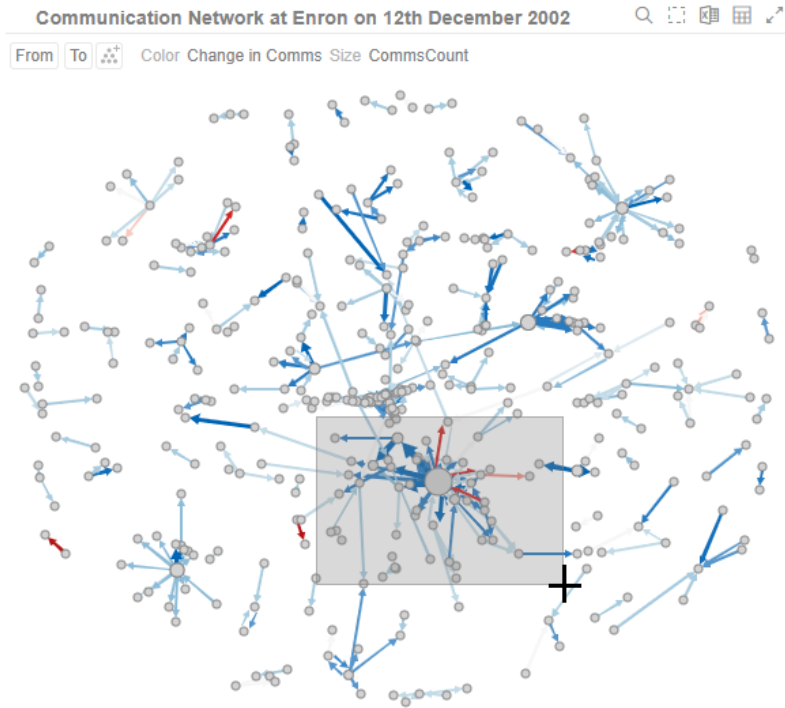


- click the **Rubber Band Zoom**  icon on the header control

The mouse turns into a crosshair .

During

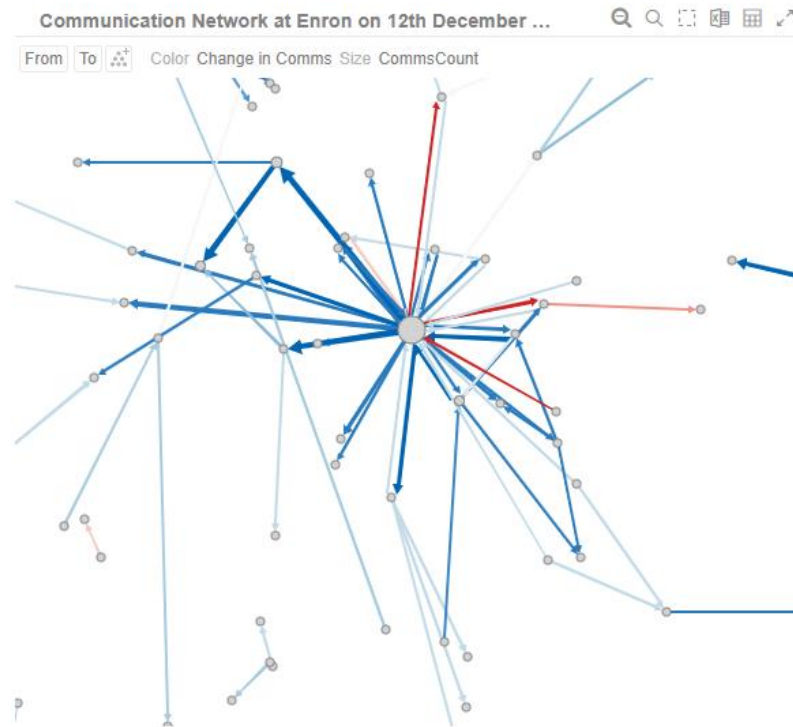
Mouse pointer has been dragged to define an area of interest.



During selection for zooming


After

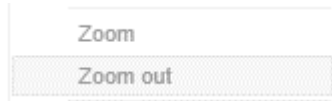
Selected items is zoomed in and the **Zoom Out** icon has is displayed.



After zooming

To revert to the original state of the visualization you can either:

- ❑ click the **Zoom Out**  icon at the top right of the visualization
- ❑ select **Zoom Out** in the context menu

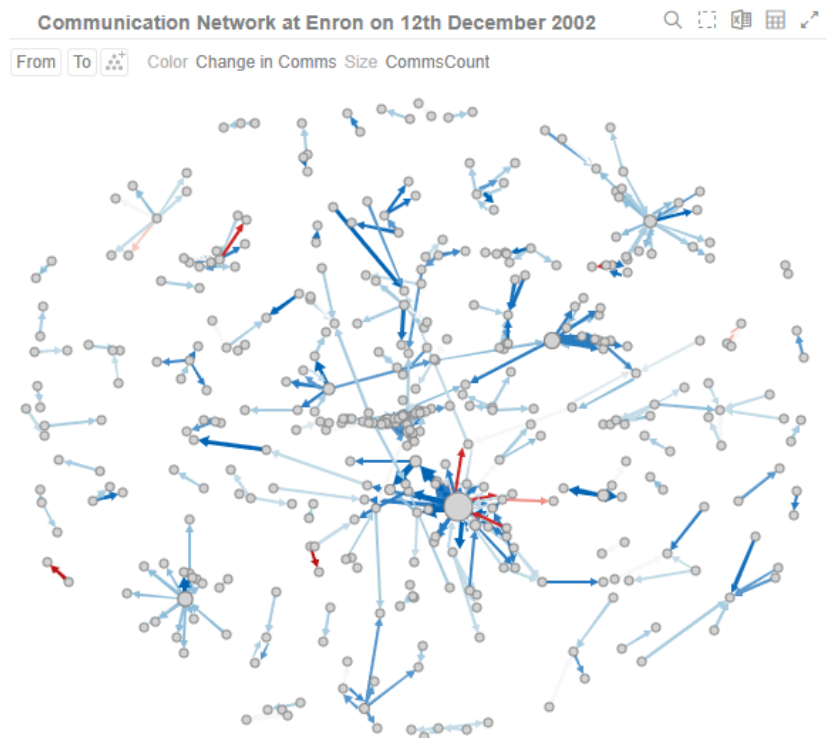


Zooming In and Out with Mouse Wheel

You can use the mouse wheel to zoom in and out on the visualization.

Examples:

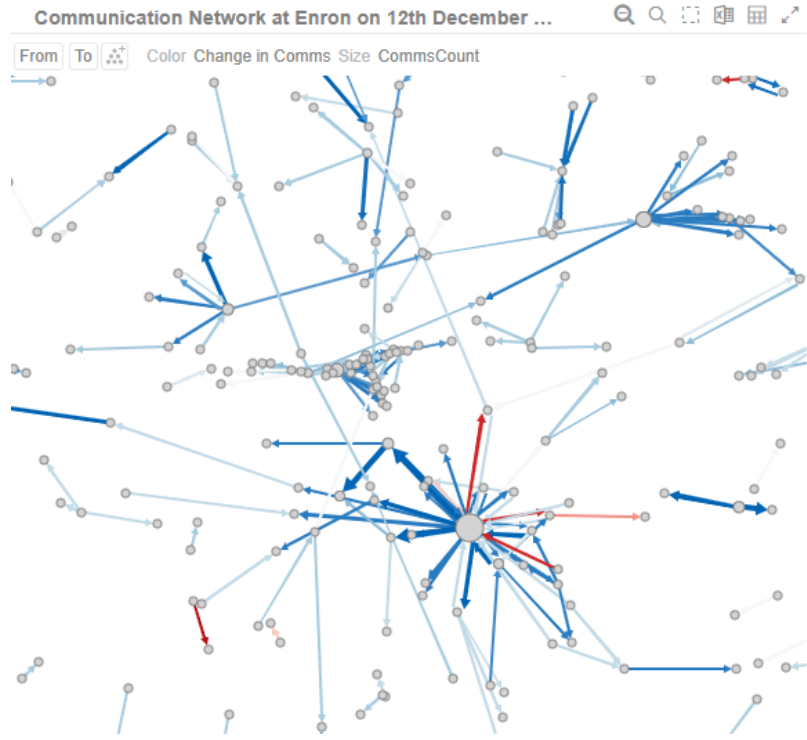
No Zoom



No zoom

Slight Zoom

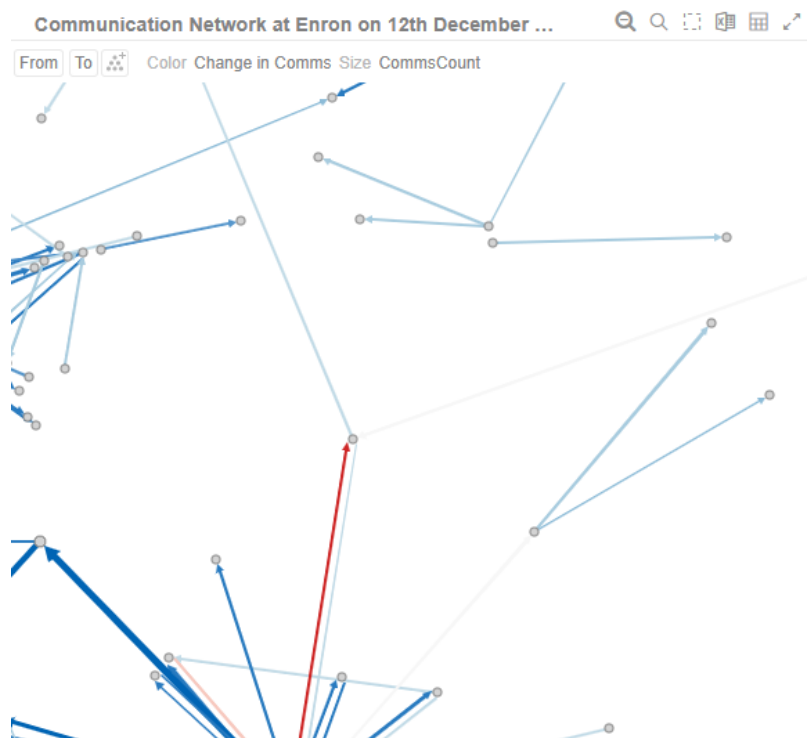
One mouse wheel rotation.



Slight zoom

Detailed Zoom

Several mouse wheel rotations.



Detailed zoom

Panning Around Within the Zoomed Area

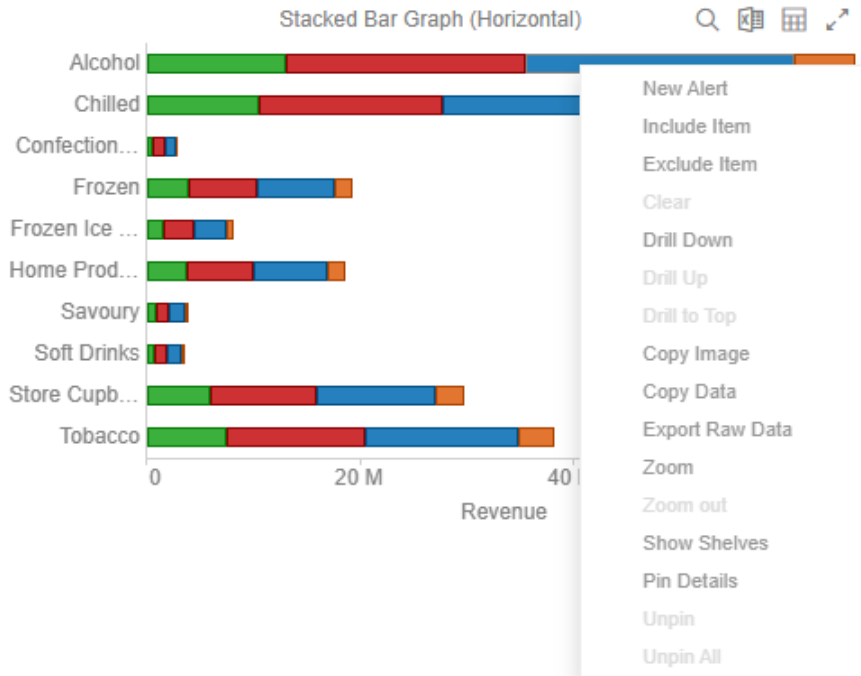
Clicking on the zoomed area turns the mouse pointer into . Drag the mouse to pan around the zoomed area.

Variable Visibility

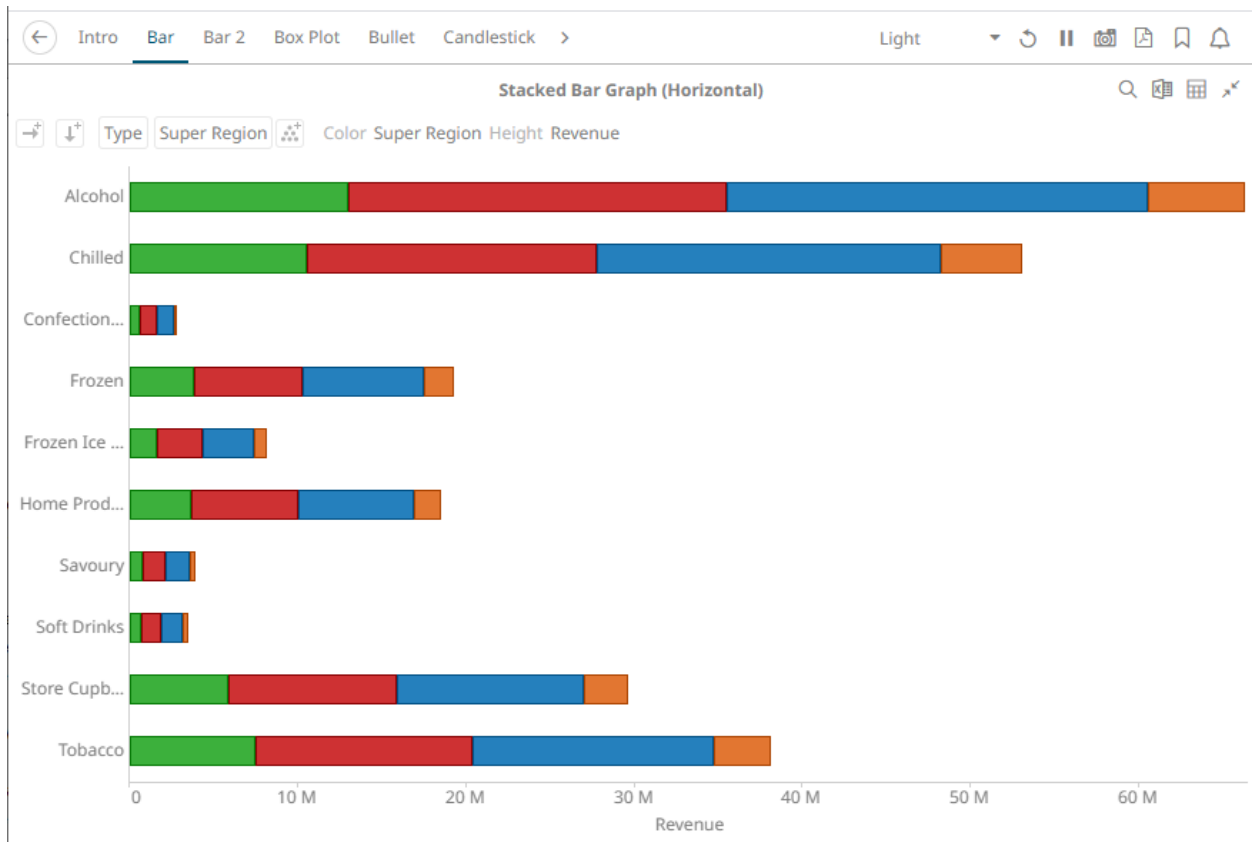
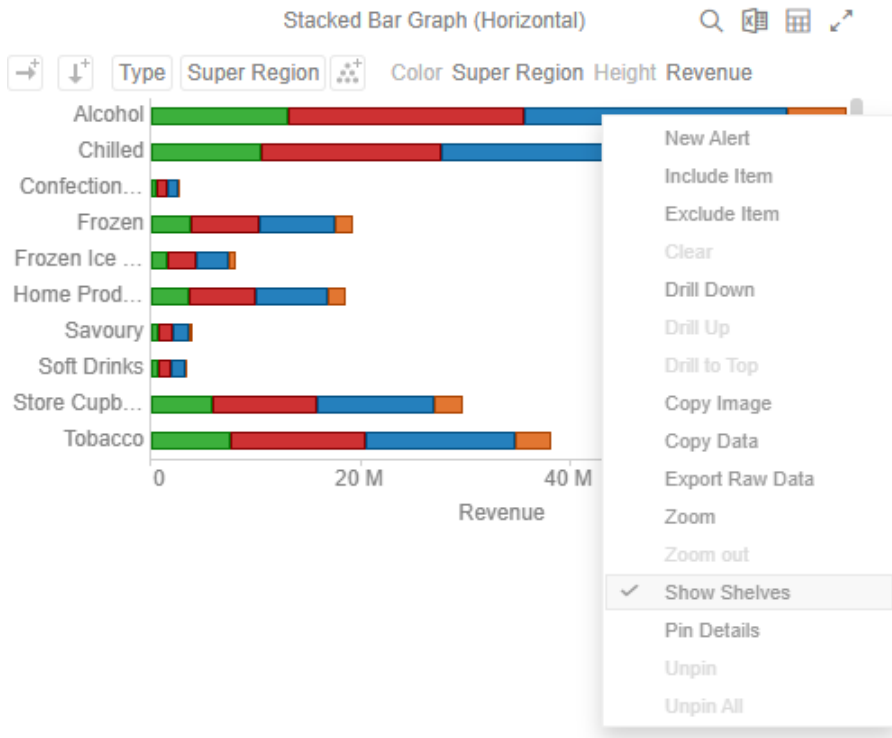
Variable visibility defines whether the visualization cross tab, breakdown, and variable shelves are displayed.

This function is often useful in creating simple views for public websites or executive dashboards.

By default, *Show Shelves* is turned off.



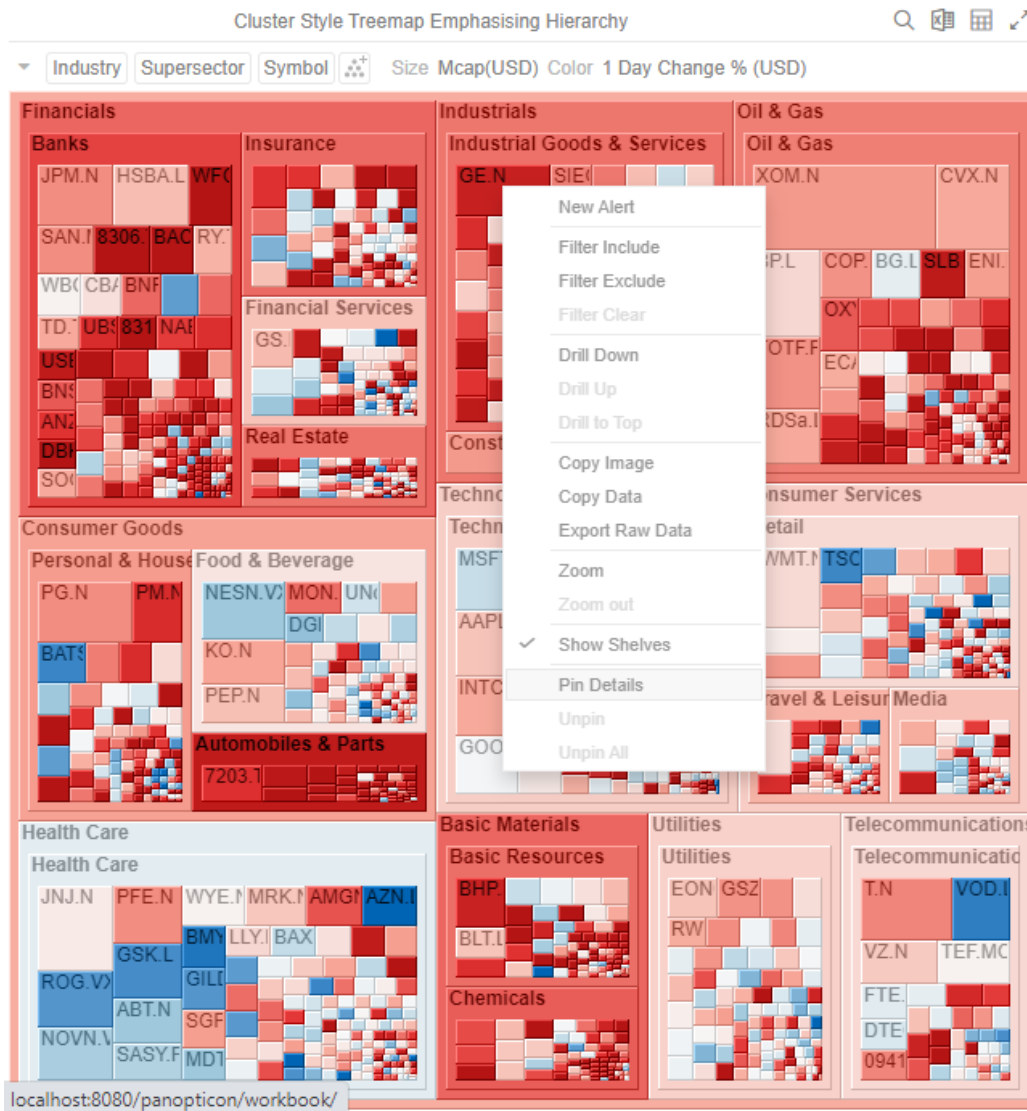
Click *Show Shelves* to select. The shelves are displayed on the visualization.



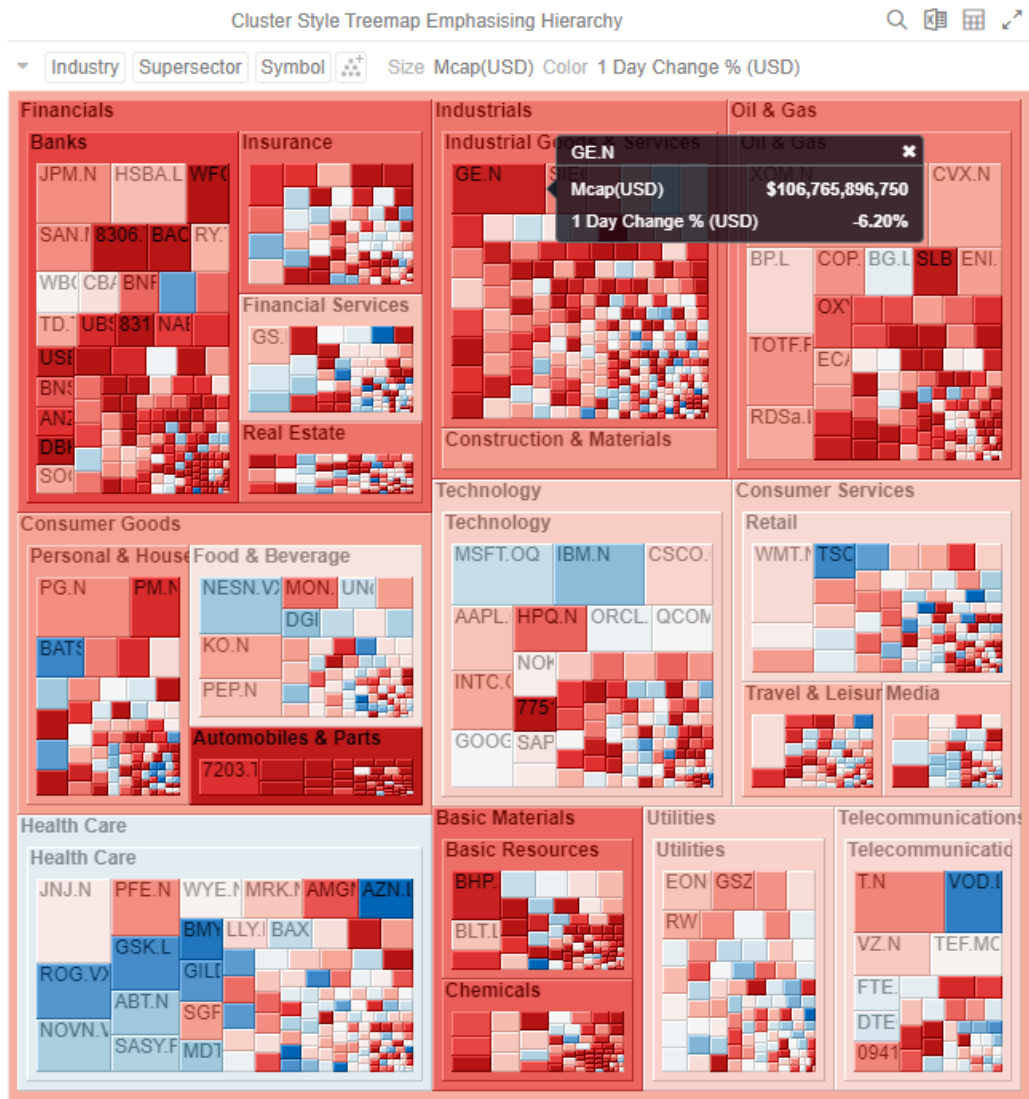
Pinning Details Pop-up

Pinning keeps *Details* pop-up displayed in visualizations which supports easy tracking of some items of interest.

Right-click on a visualization item and select **Pin Details** in the context menu.



The *Details* pop-up is displayed and pinned.



Repeat until you pin all of the *Details* pop-up that you want to display.

NOTE The *Pin Details* option in the context menu is disabled once the details of a visualization item or data point is pinned.

Pin Details

Unpin

Unpin All

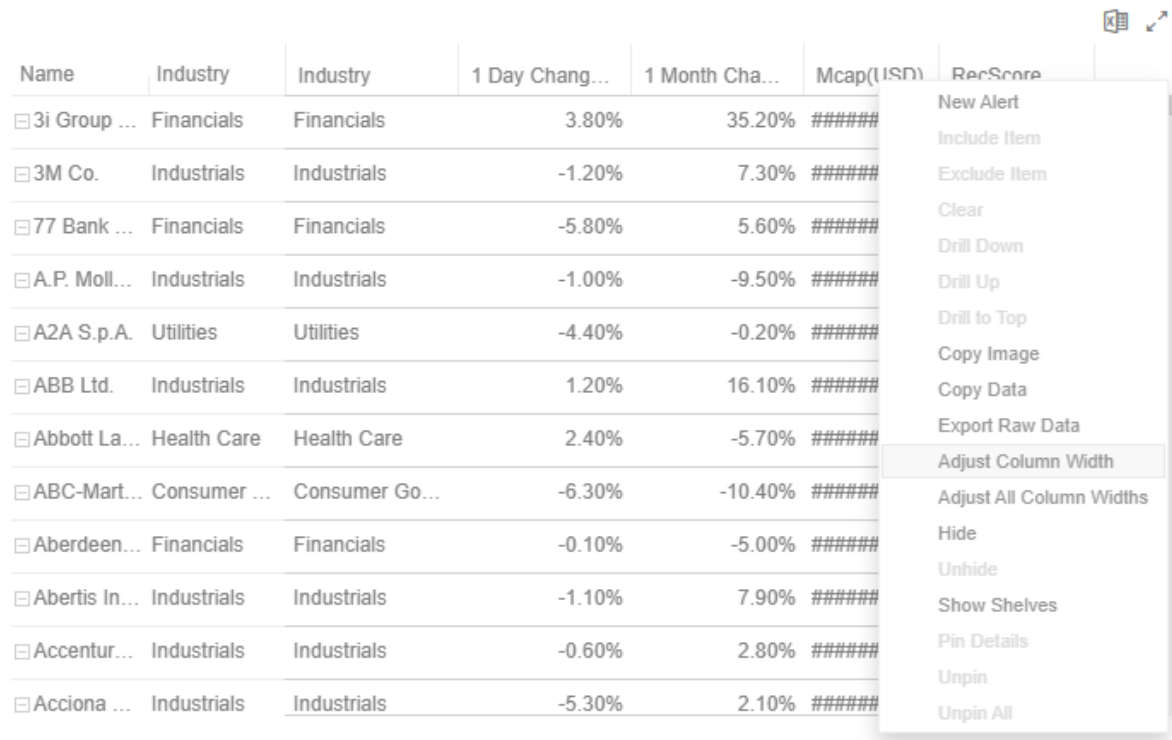
To unpin, you can either click or right-click on the item and select **Unpin** on the context menu. Select **Unpin All** in the context menu to remove all of the pinned *Details* pop-up.

Adjust Column Width in the Table Visualization

For the table visualization, the width of the columns can be automatically adjusted to fit the contents of a column or all of the columns.

Right-click on a column name and then select either:

- Adjust Column Width



Name	Industry	Industry	1 Day Chang...	1 Month Cha...	Mcap(USD)	RecScore
3i Group ...	Financials	Financials	3.80%	35.20%	#####	
3M Co.	Industrials	Industrials	-1.20%	7.30%	#####	
77 Bank ...	Financials	Financials	-5.80%	5.60%	#####	
A.P. Moll...	Industrials	Industrials	-1.00%	-9.50%	#####	
A2A S.p.A.	Utilities	Utilities	-4.40%	-0.20%	#####	
ABB Ltd.	Industrials	Industrials	1.20%	16.10%	#####	
Abbott La...	Health Care	Health Care	2.40%	-5.70%	#####	
ABC-Mart...	Consumer ...	Consumer Go...	-6.30%	-10.40%	#####	
Aberdeen...	Financials	Financials	-0.10%	-5.00%	#####	
Abertis In...	Industrials	Industrials	-1.10%	7.90%	#####	
Accentur...	Industrials	Industrials	-0.60%	2.80%	#####	
Acciona ...	Industrials	Industrials	-5.30%	2.10%	#####	

The column width is adjusted.



Name	Industry	1 Day Chang...	1 Month Cha...	1 Week Chan...	Mcap(USD)	RecScore
3i Group ...	Financials	0.04	0.36	0.01	1,488,911,563.00	0.42
3M Co.	Industrials	-0.01	0.07	0.01	31,869,237,156.00	0.25
77 Bank L...	Financials	-0.06	0.07	-0.03	1,855,149,668.00	0.39
A.P. Moll...	Industrials	-0.01	-0.13	-0.08	4,742,697,140.00	0.32
A2A S.p.A.	Utilities	-0.04	-0.04	-0.05	1,906,029,009.00	0.28
ABB Ltd.	Industrials	0.01	0.13	-0.02	32,461,622,181.00	0.36
Abbott La...	Health Care	0.02	-0.06	-0.02	73,392,451,232.00	0.36
ABC-Mart...	Consumer ...	-0.06	-0.10	-0.03	556,753,517.00	0.26
Aberdeen...	Financials	0.00	-0.05	-0.09	1,310,061,051.00	0.34
Abertis In...	Industrials	-0.01	0.04	-0.04	4,574,542,373.00	0.28
Accentur...	Industrials	-0.01	-0.05	-0.13	17,063,968,693.00	0.37


□ Adjust All Column Widths

Name	Industry	Industry	1 Day Chang...	1 Month Cha...	Mcap(USD)	RecScore	Mcap(local)
☐ Verbund ...	Utilities	Utilities	-1.50%	19.10%	#####	0.34	###
☐ Origin En...	Utilities	Utilities	-1.10%	19.30%	#####	0.32	###
☐ AGL Ener...	Utilities	Utilities	3.40%	20.30%	#####	0.51	###
☐ TransAlta...	Utilities	Utilities	-1.20%	-12.70%	#####	0.29	###
☐ Canadian...	Utilities	Utilities	-4.70%	-7.20%	#####	0.32	###
☐ Fortis Inc.	Utilities	Utilities	-1.50%	-0.90%	#####	0.21	###
☐ Alpiq Hol...	Utilities	Utilities	0.50%	-8.10%	#####	0.26	###
☐ BKW FM...	Utilities	Utilities	-0.60%	-1.90%	#####	0.27	###
☐ E.ON AG	Utilities	Utilities	-1.60%	4.80%	#####	0.34	###
☐ RWE AG	Utilities	Utilities	-2.30%	7.20%	#####	0.28	###
☐ Endesa S...	Utilities	Utilities	-4.40%	-35.00%	#####	0.21	###
☐ Enagas S...	Utilities	Utilities	-6.90%	-14.20%	#####	0.17	###

- New Alert
- Include Item
- Exclude Item
- Clear
- Drill Down
- Drill Up
- Drill to Top
- Copy Image
- Copy Data
- Export Raw Data
- Adjust Column Width
- Adjust All Column Widths**
- Hide
- Unhide
- Show Shelves
- Pin Details
- Unpin
- Unpin All

All of the column widths of the table are adjusted.

Name	Industry	1 Day Change % (USD)	1 Month Change %	1 Week Change % (USD)	Mcap(USD)	RecScore	Mcap(local)
☐ 3i Group ...	Financials	0.04	0.36	0.01	1,488,911,563.00	0.42	1,038,763,431.00
☐ 3M Co.	Industrials	-0.01	0.07	0.01	31,869,237,156.00	0.25	31,869,237,156.00
☐ 77 Bank L...	Financials	-0.06	0.07	-0.03	1,855,149,668.00	0.39	183,233,133,458.00
☐ A.P. Molle...	Industrials	-0.01	-0.13	-0.08	4,742,697,140.00	0.32	26,605,819,548.00
☐ A2A S.p.A.	Utilities	-0.04	-0.04	-0.05	1,906,029,009.00	0.28	1,435,587,112.00
☐ ABB Ltd.	Industrials	0.01	0.13	-0.02	32,461,622,181.00	0.36	36,909,178,148.00
☐ Abbott La...	Health Care	0.02	-0.06	-0.02	73,392,451,232.00	0.36	73,392,451,232.00
☐ ABC-Mart...	Consumer ...	-0.06	-0.10	-0.03	556,753,517.00	0.26	54,990,545,128.00
☐ Aberdeen...	Financials	0.00	-0.05	-0.09	1,310,061,051.00	0.34	913,985,455.00
☐ Abertis In...	Industrials	-0.01	0.04	-0.04	4,574,542,373.00	0.28	3,445,463,864.00
☐ Accentur...	Industrials	-0.01	-0.05	-0.13	17,063,968,693.00	0.37	17,063,968,693.00

Aside from selecting either of these context menu options, you can also manually drag the **Left-Right** arrow  to widen or reduce the width of the columns.

Hover on a column border, the **Left-Right** arrow displays.

Flat Table of Company Performance

Name	Close(local)	Mcap(USD)	Day Ch...	1 Week Change...	2 Week Change...	2 Week Change...	1 Month Chang...	1 Month Chang...	2 Month Chang...	3 Month Chang...
3i Group PLC	2.71	#####	3.80%	1.40%	29.00%	■	35.23%	●	18.95%	1.98%
3M Co.	49.72	#####	-1.21%	0.81%	4.74%		7.32%	●	-7.57%	-13.03%
77 Bank Ltd.	487.00	#####	-5.78%	-2.86%	7.20%		5.59%	●	-4.09%	-9.07%
A.P. Moller-Mae...	24,600.00	#####	-1.02%	-8.09%	7.04%		-9.46%	●	-9.22%	-17.78%
A2A S.p.A.	1.14	#####	-4.40%	-8.11%	14.14%	■	-0.15%	●	-12.93%	-15.59%
ABB Ltd.	15.89	#####	1.17%	-1.73%	2.31%		16.05%	●	7.15%	-5.61%
Abbott Laboratories	47.70	#####	2.36%	-2.17%	-0.31%		-5.69%	●	-13.96%	-10.27%
ABC-Mart Inc.	1,892.00	#####	-6.35%	-2.90%	0.96%		-10.41%	●	-42.08%	-47.49%
Aberdeen Asset...	1.27	#####	-0.13%	-9.46%	0.76%		-5.04%	●	-1.54%	21.50%
Aberis...	11.77	#####	-1.06%	-4.02%	6.69%		7.89%	●	-3.98%	-12.32%
Accenture Ltd. CI A	27.49	#####	-0.61%	-13.34%	-0.59%		2.84%	●	-5.57%	-8.10%
Acciona S.A.	77.45	#####	-5.29%	-11.98%	-2.86%		2.09%	●	-9.33%	-18.31%
Accor S.A.	26.22	#####	1.21%	-10.59%	-18.10%	■	-19.79%	●	-24.82%	-39.71%
ACE Ltd.	40.40	#####	0.62%	0.00%	10.78%	■	4.91%	●	-7.47%	-22.74%

Drag the arrow to the desired width.

Flat Table of Company Performance

Name	Close(local)	Mcap(USD)	1 Day Ch...	1 Week Change...	2 Week Change...	2 Week Change...	1 Month Chang...	1 Month Chang...	2 Month Chang...	3 Month Chang...
3i Group PLC	2.71	\$1,488,911,563	3.80%	1.40%	29.00%	■	35.23%	●	18.95%	1.98%
3M Co.	49.72	\$31,869,237,156	-1.21%	0.81%	4.74%		7.32%	●	-7.57%	-13.03%
77 Bank Ltd.	487.00	\$1,855,149,668	-5.78%	-2.86%	7.20%		5.59%	●	-4.09%	-9.07%
A.P. Moller-Mae...	24,600.00	\$4,742,697,140	-1.02%	-8.09%	7.04%		-9.46%	●	-9.22%	-17.78%
A2A S.p.A.	1.14	\$1,906,029,009	-4.40%	-8.11%	14.14%	■	-0.15%	●	-12.93%	-15.59%
ABB Ltd.	15.89	\$32,461,622,181	1.17%	-1.73%	2.31%		16.05%	●	7.15%	-5.61%
Abbott Laboratories	47.70	\$73,392,451,232	2.36%	-2.17%	-0.31%		-5.69%	●	-13.96%	-10.27%
ABC-Mart Inc.	1,892.00	\$556,753,517	-6.35%	-2.90%	0.96%		-10.41%	●	-42.08%	-47.49%
Aberdeen Asset...	1.27	\$1,310,061,051	-0.13%	-9.46%	0.76%		-5.04%	●	-1.54%	21.50%
Aberis...	11.77	\$4,574,542,373	-1.06%	-4.02%	6.69%		7.89%	●	-3.98%	-12.32%
Accenture Ltd. CI A	27.49	\$17,063,968,693	-0.61%	-13.34%	-0.59%		2.84%	●	-5.57%	-8.10%
Acciona S.A.	77.45	\$2,628,978,079	-5.29%	-11.98%	-2.86%		2.09%	●	-9.33%	-18.31%
Accor S.A.	26.22	\$4,696,232,401	1.21%	-10.59%	-18.10%	■	-19.79%	●	-24.82%	-39.71%
ACE Ltd.	40.40	\$13,449,428,418	0.62%	0.00%	10.78%	■	4.91%	●	-7.47%	-22.74%

Hide or Display Columns in the Table Visualization

Table visual members can be hidden and displayed again. To hide a column, right-click on a column name and select **Hide**.

Hierarchical Table of Company Performance

Industry Supersector Name			Price & Value		Changes (in % USD)						
Industry	Supersector	Name	Close(local)	1 Day	Mcap(USD)	1 Week	2 Week	1 Month	1 Month	2 Month	3 Month
Grand Total				-2.23%	\$14,776,798,934,247	-2		6.89%	●	-1.52%	-8.40%
Basic Materials Total				-3.73%	\$889,465,969,106	-3		13.23%	●	8.88%	2.08%
Basic Resources Total				-3.58%	\$512,851,697,625	-3		17.22%	●	13.80%	7.76%
Acerinox S.A.			8.75	-1.20%	\$1,488,375,565	-1		0.20%	●	-11.50%	-27.80%
Agnico-Eagle...			72.47	2.20%	\$8,914,475,285	2		25.50%	●	17.90%	24.60%
Alcoa Inc.			7.34	14.40%	\$7,140,479,481	20		37.10%	●	14.50%	-16.50%
Allegheny ...			21.93	-6.80%	\$2,011,309,511	-3		11.00%	●	0.30%	-8.20%
Alumina Ltd.			1.28	3.30%	\$1,310,698,840	1		14.00%	●	22.70%	0.50%
Anglo Ameri...			11.86	-0.70%	\$22,812,823,982	-14		15.40%	●	-6.90%	-24.20%
Antofagasta PLC			5.04	-2.20%	\$2,805,252,436	-1		8.90%	●	19.40%	18.80%
ArceorMittal			15.28	-4.80%	\$15,023,575,434	1		-1.30%	●	-10.60%	-17.10%
Arch Coal Inc.			13.37	-7.00%	\$1,914,166,642	-13		-3.80%	●	-12.00%	-16.00%
Barrick Gold...			40.81	1.30%	\$28,238,225,116	-1		2.40%	●	-12.80%	-9.90%

- New Alert
- Filter Include
- Filter Exclude
- Filter Clear
- Drill Down
- Drill Up
- Drill to Top
- Copy Image
- Copy Data
- Export Raw Data
- Adjust Column Width
- Adjust All Column Widths
- Hide
- Unhide
- ✓ Show Shelves
- Pin Details
- Unpin
- Unpin All

To display the hidden columns, right-click any of the visual members and select **Unhide** <Column>

Hierarchical Table of Company Performance 🔍 ↗

Industry Supersector Name

Industry	Supersector	Name	Price & Value		Changes (in % USD)					
			Close(local)	1 Day	Mcap(USD)	1 Week	1 Month	2 Month	3 Month	
Grand Total				-2.23%	\$14,776,798,					
Basic Materials Total				-3.73%	\$889,465,					
	Basic Resources Total			-3.58%	\$512,851,					
	Acerinox S.A.		8.75	-1.20%	\$1,488,					
	Agnico-Eagle...		72.47	2.20%	\$8,914,					
	Alcoa Inc.		7.34	14.40%	\$7,140,					
	Allegheny...		21.93	-6.80%	\$2,011,					
	Alumina Ltd.		1.28	3.30%	\$1,310,					
	Anglo Ameri...		11.86	-0.70%	\$22,812,					
	Antofagasta PLC		5.04	-2.20%	\$2,805,					
	ArcelorMittal		15.28	-4.80%	\$15,023,					
	Arch Coal Inc.		13.37	-7.00%	\$1,914,					
	Barrick Gold...		40.81	1.30%	\$28,238,					

Price & Value

Changes (in % USD)

1 Week

1 Month

2 Month

3 Month

New Alert 39%

Filter Include 23%

Filter Exclude 22%

Filter Clear 20%

Drill Down 50%

Drill Up 10%

Drill to Top 00%

Copy Image 00%

Copy Data 40%

Export Raw Data 30%

Adjust Column Width 30%

Adjust All Column Widths 40%

Hide

Unhide

✓ Show Shelves

Pin Details

Unpin

Unpin All

Displaying a Hierarchy Column in the Table Visualization

- Expand or collapse sections of the hierarchy by clicking on the to expand, and to collapse.

Industry	Supersector	Symbol	Mcap(USD)	1 Day Chang...	1 Week Chan...	1 Month Cha...
Grand Total			\$14,776,798,934,247	-5035.40%	-4268.90%	14084.90%
Basic Materials Total			\$889,465,969,106	-611.30%	-516.20%	1726.50%
Consumer Goods Total			\$1,860,384,194,222	-642.00%	-334.80%	1518.80%
	Automobiles & Parts To...		\$328,426,116,057	-307.10%	-157.50%	445.00%
		0203.HK	\$1,820,170,747	-4.50%	-10.40%	25.10%
		3116.T	\$912,071,761	-9.40%	-4.10%	4.50%
		5101.T	\$1,239,086,057	-3.40%	3.10%	21.00%
		5108.T	\$9,723,912,200	-6.70%	-3.90%	-0.50%
		5110.T	\$1,257,373,228	-5.80%	-0.90%	2.00%
		5334.T	\$1,595,314,832	-7.00%	-2.90%	9.80%

Additionally, the right click context menu includes options for **Expand All** and **Collapse All**

Industry	Supersector	Symbol	Mcap(USD)	1 Day Chang...	1 Week Chan...	1 Month Cha...
Grand Total			\$14,776,798,934,247	-5035.40%	-4268.90%	14084.90%
[-] Basic Materials Total			\$889,465,969,106	-611.30%	-516.20%	1726.50%
[-] Consumer Goods T			\$60,384,194,222	-642.00%	-334.80%	1518.80%
[-] Auto			\$328,426,116,057	-307.10%	-157.50%	445.00%
[-] Foo			\$765,925,707,172	-95.00%	-48.90%	292.80%
			\$3,020,799,974	-1.10%	2.90%	17.30%
			\$4,301,263,792	1.90%	4.40%	3.90%
			\$1,133,884,270	2.20%	6.90%	3.60%
			\$1,086,602,372	0.80%	-7.30%	8.30%
			\$2,369,831,966	-4.70%	-1.00%	6.90%

- New Alert
- Include Item
- Exclude Item
- Clear
- Drill Down
- Drill Up
- Drill to Top
- Copy Image
- Copy Data
- Export Raw Data
- ✓ Show Sub Totals
- ✓ Show Grand Total
- Show Supersector
- Expand All
- Collapse All
- Show Shelves
- Pin Details
- Unpin
- Unpin All

However, when the workbook designer turns on the **Virtual Mode** option in the *Table Settings*, the table will be in a flat mode and the expand and collapse options will no longer be available.



Tabular View of Filtered Dataset

Industry	Supersector	Symbol	Mcap(USD)	1 Day Change % (USD)	1 Week Change % (USD)	1 Month Change % (USD)
Grand Total			\$14,777B	-2.24%	-2.66%	6.89%
Financials Total			\$2,547B	-3.75%	-5.23%	12.38%
	Banks Total		\$1,366B	-4.46%	-6.46%	14.08%
		JPM.N	\$99B	-2.99%	-7.90%	15.31%
		HSBA.L	\$97B	-1.79%	-6.51%	7.06%
		WFC.N	\$57B	-8.66%	-17.83%	1.22%
		SAN.MC	\$56B	-3.02%	-6.64%	7.27%
		8306.T	\$56B	-10.36%	-8.39%	7.34%
		BAC.N	\$44B	-7.08%	-12.56%	31.65%
		RY.TO	\$39B	-2.06%	-5.05%	13.95%
		WBC.AX	\$39B	-0.21%	0.08%	27.39%
		CBA.AX	\$36B	-0.72%	-1.64%	30.78%
		BNPP.PA	\$35B	-3.71%	-11.73%	19.16%
		CSGN.VX	\$33B	4.08%	-6.25%	25.58%
		BBVA.MC	\$30B	-3.69%	-5.40%	10.51%
		TD.TO	\$29B	-2.40%	-6.45%	19.70%
		UBSN.VX	\$28B	-5.33%	-19.18%	-6.41%
		8316.T	\$27B	-11.87%	-11.58%	10.95%
		NAB.AX	\$27B	-4.65%	0.91%	25.22%
		ISP.MI	\$27B	-5.14%	-0.95%	16.91%
		USB.N	\$25B	-6.59%	-8.63%	-2.01%
		BNS.TO	\$24B	-4.00%	-7.95%	5.88%
		ANZ.AX	\$24B	-4.79%	2.61%	35.82%
		DBKGn.DE	\$23B	-8.17%	-3.42%	44.07%
		SOGN.PA	\$23B	-2.37%	-9.22%	17.09%
		8411.T	\$22B	-13.62%	-15.80%	-0.86%

Expanding and collapsing can also be done by selecting specific items to display. Right-click on the item and then select *Show <Item>* on the context menu.

Additional Table Operations

Adjust Width of the Text Axis Leaf in Table Visualizations

In the Table visualization, you can adjust the width of the Text axis leaf by dragging the **Left-Right** arrow .

For example, in the Table below, the data or fields of the leaf are not fully displayed.

Hierarchical Table of Company Performance

Industry Supersector Name

Price & Value Changes (in % USD)

Industry	Supersector	Name	Close(local)	Mcap(USD)	1 Day	1 Week	2 Week	2 Week	1 Month	1 Month	2 Month	3 Month
Grand Total				\$14,776,798,934,247	-2.24%	-2.66%	5.94%		6.89%		-1.52%	-8.40%
Basic Materials Total				\$889,465,969,106	-3.74%	-3.74%	7.13%		13.23%		8.88%	2.08%
	Basic Resources Total			\$512,851,697,625	-3.60%	-3.60%	10.14%		17.22%		13.80%	7.76%
		Acerinox S.A.	8.75	\$1,488,375,565	-1.23%	-11.55%	3.70%		0.23%		-11.47%	-27.76%
		Agnico-Eagle...	72.47	\$8,914,475,285	2.21%	2.47%	28.09%		25.48%		17.90%	24.57%
		Alcoa Inc.	7.34	\$7,140,479,481	14.39%	20.57%	45.79%		37.05%		14.53%	-16.54%
		Allegheny...	21.93	\$2,011,309,511	-6.84%	-3.14%	5.62%		11.02%		0.31%	-8.17%
		Alumina Ltd.	1.28	\$1,310,698,840	3.28%	5.10%	34.54%		13.99%		22.68%	0.48%
		Anglo American...	11.86	\$22,812,823,982	-0.68%	-14.15%	4.66%		15.36%		-6.86%	-24.23%
		Antofagasta PLC	5.04	\$2,805,252,436	-2.16%	-11.08%	-1.57%		8.92%		19.42%	18.83%
		ArcelorMittal	15.28	\$15,023,575,434	-4.83%	1.54%	8.74%		-1.33%		-10.61%	-17.12%
		Arch Coal Inc.	13.37	\$1,914,166,642	-6.96%	-13.57%	-2.48%		-3.81%		-11.98%	-15.96%

Hover on the border of the Text axis leaf and drag the **Left-Right** arrow to the desired width.

Hierarchical Table of Company Performance

Industry Supersector Name

Price & Value Changes (in % USD)

Industry	Supersector	Name	Close(local)	Mcap(USD)	1 Day	1 Week	2 Week	2 Week	1 Month	1 Month	2 Month	3 Month
Grand Total				\$14,776,798,934,247	-2.24%	-2.66%	5.94%		6.89%		-1.52%	-8.40%
Basic Materials Total				\$889,465,969,106	-3.74%	-3.74%	7.13%		13.23%		8.88%	2.08%
	Basic Resources Total			\$512,851,697,625	-3.60%	-3.60%	10.14%		17.22%		13.80%	7.76%
		Acerinox S.A.	8.75	\$1,488,375,565	-1.23%	-11.55%	3.70%		0.23%		-11.47%	-27.76%
		Agnico-Eagle Mines Ltd.	72.47	\$8,914,475,285	2.21%	2.47%	28.09%		25.48%		17.90%	24.57%
		Alcoa Inc.	7.34	\$7,140,479,481	14.39%	20.57%	45.79%		37.05%		14.53%	-16.54%
		Allegheny Technologies Inc.	21.93	\$2,011,309,511	-6.84%	-3.14%	5.62%		11.02%		0.31%	-8.17%
		Alumina Ltd.	1.28	\$1,310,698,840	3.28%	5.10%	34.54%		13.99%		22.68%	0.48%
		Anglo American PLC	11.86	\$22,812,823,982	-0.68%	-14.15%	4.66%		15.36%		-6.86%	-24.23%
		Antofagasta PLC	5.04	\$2,805,252,436	-2.16%	-11.08%	-1.57%		8.92%		19.42%	18.83%
		ArcelorMittal	15.28	\$15,023,575,434	-4.83%	1.54%	8.74%		-1.33%		-10.61%	-17.12%
		Arch Coal Inc.	13.37	\$1,914,166,642	-6.96%	-13.57%	-2.48%		-3.81%		-11.98%	-15.96%

Move Columns in the Table Visualization

Move or re-arrange the columns by dragging them either to the left or to the right.

Flat Table of Company Performance

Name	Close(local)	Mcap(USD)	1 Day Change ...	1 Week Change...	2 Week Change...	2 Week Change...	1 Month Chang...	1 Month Chang...	2 Month Chang...	3 Month Chang...
A.P. Moller-Mae...	24,600.00	\$4,742,697,140	-1.02%	-8.09%	7.04%		-9.46%		-9.22%	-17.78%
A2A S.p.A.	1.14	\$1,906,029,009	-4.40%	5.17%	14.14%		-0.15%		-12.93%	-15.59%
ABB Ltd.	15.89	\$32,461,622,181	1.17%	-1.73%	2.31%		16.05%		7.15%	-5.61%
Abbott Laboratories	47.70	\$73,392,451,232	2.36%	-2.17%	-0.31%		-5.69%		-13.96%	-10.27%
ABC-Mart Inc.	1,892.00	\$556,753,517	-6.35%	-2.90%	0.96%		-10.41%		-42.08%	-47.49%
Aberdeen Asset...	1.27	\$1,310,061,051	-0.13%	-9.46%	0.76%		-5.04%		-1.54%	21.50%
Abertis...	11.77	\$4,574,542,373	-1.06%	-4.02%	6.69%		7.89%		-3.98%	-12.32%
Accenture Ltd. CI A	27.49	\$17,063,968,693	-0.61%	-13.34%	-0.59%		2.84%		-5.57%	-8.10%
Acciona S.A.	77.45	\$2,628,978,079	-5.29%	-11.98%	-2.86%		2.09%		-9.33%	-18.31%
Accor S.A.	26.22	\$4,696,232,401	1.21%	-10.59%	-18.10%		-19.79%		-24.82%	-39.71%
ACE Ltd.	40.40	\$13,449,428,418	0.62%	0.00%	10.78%		4.91%		-7.47%	-22.74%
Acergy S.A.	42.10	\$1,138,612,378	-6.62%	-12.02%	6.15%		16.19%		12.51%	11.93%
Acerinox S.A.	8.75	\$1,488,375,565	-1.23%	-11.55%	3.70%		0.23%		-11.47%	-27.76%
Arkerms & Van	36.18	\$1,078,072,552	-1.01%	7.17%	2.67%		5.94%		9.44%	-5.66%

Flat Table of Company Performance

Name	Close(local)	Mcap(USD)	1 Day Change ...	1 Week Change...	2 Week Change...	2 Week Change...	1 Month Chang...	1 Month Chang...	2 Month Chang...	3 Month Chang...
A.P. Moller-Mae...	24,600.00	\$4,742,697,140	-1.02%	-8.09%	7.04%		-9.46%		-9.22%	-17.78%
A2A S.p.A.	1.14	\$1,906,029,009	-4.40%	5.17%	14.14%		-0.15%		-12.93%	-15.59%
ABB Ltd.	15.89	\$32,461,622,181	1.17%	-1.73%	2.31%		16.05%		7.15%	-5.61%
Abbott Laboratories	47.70	\$73,392,451,232	2.36%	-2.17%	-0.31%		-5.69%		-13.96%	-10.27%
ABC-Mart Inc.	1,892.00	\$556,753,517	-6.35%	-2.90%	0.96%		-10.41%		-42.08%	-47.49%
Aberdeen Asset...	1.27	\$1,310,061,051	-0.13%	-9.46%	0.76%		-5.04%		-1.54%	21.50%
Abertis...	11.77	\$4,574,542,373	-1.06%	-4.02%	6.69%		7.89%		-3.98%	-12.32%
Accenture Ltd. CI A	27.49	\$17,063,968,693	-0.61%	-13.34%	-0.59%		2.84%		-5.57%	-8.10%
Acciona S.A.	77.45	\$2,628,978,079	-5.29%	-11.98%	-2.86%		2.09%		-9.33%	-18.31%
Accor S.A.	26.22	\$4,696,232,401	1.21%	-10.59%	-18.10%		-19.79%		-24.82%	-39.71%
ACE Ltd.	40.40	\$13,449,428,418	0.62%	0.00%	10.78%		4.91%		-7.47%	-22.74%
Acergy S.A.	42.10	\$1,138,612,378	-6.62%	-12.02%	6.15%		16.19%		12.51%	11.93%
Acerinox S.A.	8.75	\$1,488,375,565	-1.23%	-11.55%	3.70%		0.23%		-11.47%	-27.76%
Arkerms & Van	36.18	\$1,078,072,552	-1.01%	7.17%	2.67%		5.94%		9.44%	-5.66%

Fiat Table of Company Performance

Name	Close(local)	Mcap(USD)	1 Day Change ...	2 Week Change...	2 Week Change...	1 Month Chang...	1 Week Change...	1 Month Chang...	2 Month Chang...	3 Month Chang...
A.P. Moller-Mae...	24,600.00	\$4,742,697,140	-1.02%	7.04%		-9.46%	-8.09%	●	-9.22%	-17.78%
A2A S.p.A.	1.14	\$1,906,029,009	-4.40%	14.14%		-0.15%	-4.01%	●	-12.93%	-15.59%
ABB Ltd.	15.89	\$32,461,622,181	1.17%	2.31%		16.05%	-1.73%	●	7.15%	-5.61%
Abbott Laboratories	47.70	\$73,392,451,232	2.36%	-0.31%		-5.69%	-2.17%	●	-13.96%	-10.27%
ABC-Mart Inc.	1,892.00	\$556,753,517	-6.35%	0.96%		-10.41%	-2.90%	●	-42.08%	-47.49%
Aberdeen Asset...	1.27	\$1,310,061,051	-0.13%	0.76%		-5.04%	-9.46%	●	-1.54%	21.50%
Abertis...	11.77	\$4,574,542,373	-1.06%	6.69%		7.89%	-4.02%	●	-3.98%	-12.32%
Accenture Ltd. Cl A	27.49	\$17,063,968,693	-0.61%	-0.59%		2.84%	-13.34%	●	-5.57%	-8.10%
Acciona S.A.	77.45	\$2,628,978,079	-5.29%	-2.86%		2.09%	-11.98%	●	-9.33%	-18.31%
Accor S.A.	26.22	\$4,696,232,401	1.21%	-18.10%		-19.79%	-10.59%	●	-24.82%	-39.71%
ACE Ltd.	40.40	\$13,449,428,418	0.62%	10.78%		4.91%	0.00%	●	-7.47%	-22.74%
Aceryg S.A.	42.10	\$1,138,612,378	-6.62%	6.15%		16.19%	-12.02%	●	12.51%	11.93%
Acerinox S.A.	8.75	\$1,488,375,565	-1.23%	3.70%		0.23%	-11.55%	●	-11.47%	-27.76%
Arkermans & Van	36.18	€1,078,072,552	-1.01%	2.67%		5.94%	-4.21%	●	9.44%	-5.66%

Visual Table Sorting

The table visualization additionally supports easy column sorting. Clicking on the column heading will sort on that column throughout the selected hierarchy. Clicking again will reverse the sort order (Ascending → Descending).

Performance by Company

▼ Symbol

Symbol	Name	Forex	Close(local)	Mcap(local)	Mcap(USD)	1 Day Change % (USD)	1 Week Change % (USD)	2 Week Change % (USD)	1 Month Change % (USD)
III.L	3i Group PLC	GBP	2.71	1,038,763,431	\$1,488,911,563	3.8%	1.4%	29.0%	35.2%
MMM.N	3M Co.	USD	49.72	31,869,237,156	\$31,869,237,156	-1.2%	0.8%	4.7%	7.3%
MAERSKb.CO	A.P. Moller-Maersk A/S Series B	DKK	24,600.00	26,605,819,548	\$4,742,697,140	-1.0%	-8.1%	7.0%	-9.5%
A2.MI	A2A S.p.A.	EUR	1.14	1,435,587,112	\$1,906,029,009	-4.4%	-5.2%	14.1%	-0.2%
ABBN.VX	ABB Ltd.	CHF	15.89	36,909,178,148	\$32,461,622,181	1.2%	-1.7%	2.3%	16.1%
ABT.N	Abbott Laboratories	USD	47.70	73,392,451,232	\$73,392,451,232	2.4%	-2.2%	-0.3%	-5.7%
ADN.L	Aberdeen Asset Management PLC	GBP	1.27	913,985,455	\$1,310,061,051	-0.1%	-9.5%	0.8%	-5.0%
ABE.MC	Abertis Infraestructuras S.A.	EUR	11.77	3,445,463,864	\$4,574,542,373	-1.1%	-4.0%	6.7%	7.9%
ACN.N	Accenture Ltd. Cl A	USD	27.49	17,063,968,693	\$17,063,968,693	-0.6%	-13.3%	-0.6%	2.8%
ANA.MC	Acciona S.A.	EUR	77.45	1,980,099,479	\$2,628,978,079	-5.3%	-12.0%	-2.9%	2.1%
ACCP.PA	Accor S.A.	EUR	26.22	3,537,118,627	\$4,696,232,401	1.2%	-10.6%	-18.1%	-19.8%
ACE.N	ACE Ltd.	USD	40.40	13,449,428,418	\$13,449,428,418	0.6%	0.0%	10.8%	4.9%
ACY.OL	Aceryg S.A.	NOK	42.10	7,688,024,637	\$1,138,612,378	-6.6%	-12.0%	6.1%	16.2%

Performance by Company

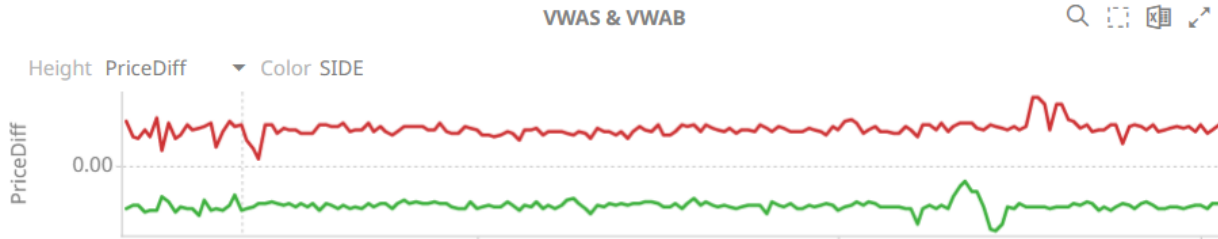
▼ Symbol

Symbol	Name	Forex	Close(local)	Mcap(local)	Mcap(USD)	1 Day Change % (USD)	1 Week Change % (USD)	2 Week Change % (USD)	1 Month Change % (USD)
ZURN.VX	Zurich Financial Services AG	CHF	180.10	25,595,996,783	\$22,511,679,170	-1.7%	-6.1%	22.4%	6.7%
ZON.LS	ZON Multimedia-Servicos de Telecom...	EUR	4.01	751,743,577	\$998,089,947	3.1%	-3.0%	6.8%	5.9%
ZODC.PA	Zodiac Aerospace	EUR	19.09	843,062,436	\$1,119,333,997	-1.0%	-2.5%	-21.0%	-18.1%
ZMH.N	Zimmer Holdings Inc.	USD	36.50	8,220,929,858	\$8,220,929,858	-3.5%	0.6%	-0.9%	-1.8%
ZOT.MC	Zardoya Otis S.A.	EUR	13.77	1,654,924,327	\$2,197,243,029	4.4%	2.1%	6.6%	7.4%
YUM.N	Yum! Brands Inc.	USD	27.48	12,711,093,703	\$12,711,093,703	-4.5%	-3.9%	3.1%	2.9%
YTY1V.HE	YIT Oyj	EUR	5.05	578,101,957	\$767,545,969	-6.3%	-9.3%	-8.1%	-3.6%
YAR.OL	Yara International ASA	NOK	147.25	27,392,192,701	\$4,056,840,493	-6.1%	-11.5%	0.4%	-4.3%
YRI.TO	Yamana Gold Inc.	CAD	11.77	8,625,585,650	\$6,855,768,907	2.6%	1.1%	21.4%	12.5%
YHOO.OQ	Yahoo! Inc.	USD	12.81	16,528,216,407	\$16,528,216,407	-2.8%	-9.3%	-3.1%	-1.3%
XTO.N	XTO Energy Inc.	USD	30.62	17,662,160,026	\$17,662,160,026	-1.1%	-13.4%	0.3%	-4.2%
XTA.L	Xstrata PLC	GBP	4.67	8,973,684,703	\$12,862,430,969	-1.6%	-2.8%	21.8%	113.5%
XLNX.OQ	Xilinx Inc.	USD	19.16	5,296,730,766	\$5,296,730,766	-1.7%	-5.4%	4.2%	7.8%

Setting Snapshot Time in a Time Series Visualization

A time series visualization consists of a series of time slices, within a defined time window. The snapshot time identifies a particular slice, which can be highlighted further in separate visualizations.

The snapshot is highlighted on the time series visualization through the aid of a vertical grid line.



The snapshot can be selected to focus on particular spikes or abnormalities in the data through either:

- Moving the snapshot on the time filter
- Right-clicking on the graph, and selecting **Set snapshot here**

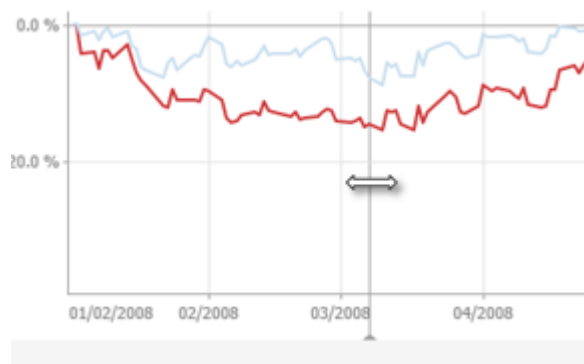


The snapshot will be set for the selected time.

Setting the snapshot can also be displayed on the associated Time Filter Box of a time series visualization.



You can also drag the snapshot line anywhere in the visualization. Hover your mouse on the snapshot line and move it either to the left or to the right.



NOTE

The Set Snapshot Here option is only available in the time series visualization context menu when the *Snapshot Grid Line* is rendered or set to Dotted, Dashed, or Solid in the Time Axis variable.

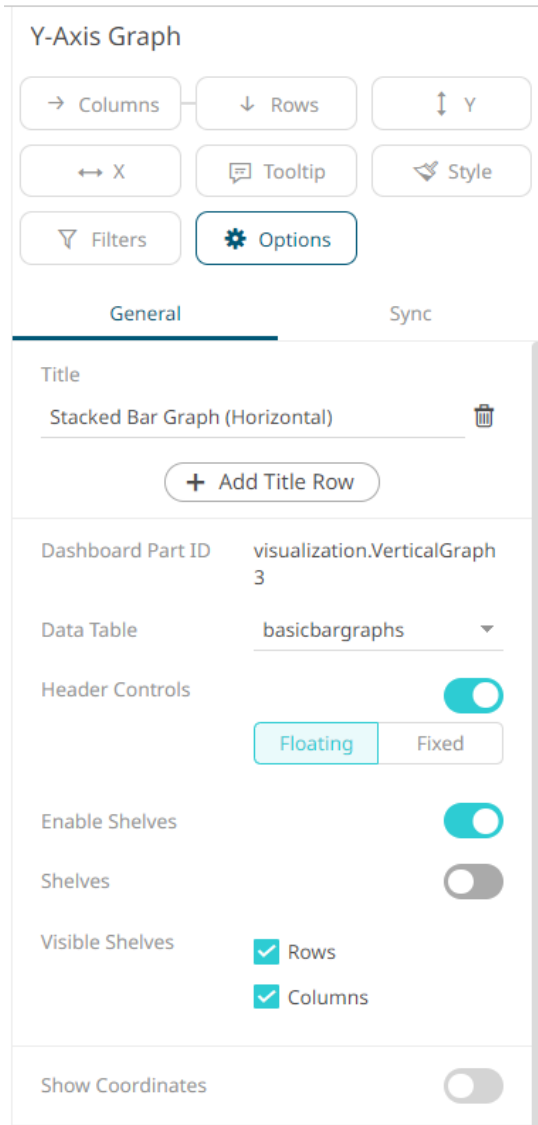
The screenshot shows the 'Line Graph' configuration panel. At the top, there are several interactive buttons: 'Columns', 'Rows', 'Items', 'Y', 'Time Axis', 'Color', 'Alpha', 'Ref Lines', 'Details', 'Filters', and 'Options'. Below these buttons is a list of settings:

- Axis Bar Thickness: 25
- Preferred Tick Space: 100
- Style: One Row
- End Points: Automatic
- Tick Points: Automatic
- Align to Time Window:
- Zero Grid Line: None
- Snapshot Grid Line: None (dropdown menu is open)
- Minor Grid Line: None
- Visible Periods: Dotted
- Min Range: Dashed
- Increment Step: Solid



The 'Snapshot Grid Line' dropdown menu is currently open, showing the following options: None (highlighted in blue), Dotted, Dashed, and Solid.

Visualization Header Controls

Header controls are made available in visualizations when the **Header Controls** option is turned on by the workbook designer.



Header controls may include:


Header Control	Description
Rubber Band Zoom 	Allows zooming in on multiple items of interest in a visualization.
Rubber Band Selection 	Allows multiple items in a visualization to be selected or lassoed.
Export Excel 	Exports static visualizations to a CSV-format file.
Toggle Display Mode 	Displays a visualization as a table and vice versa.

[Maximize](#)



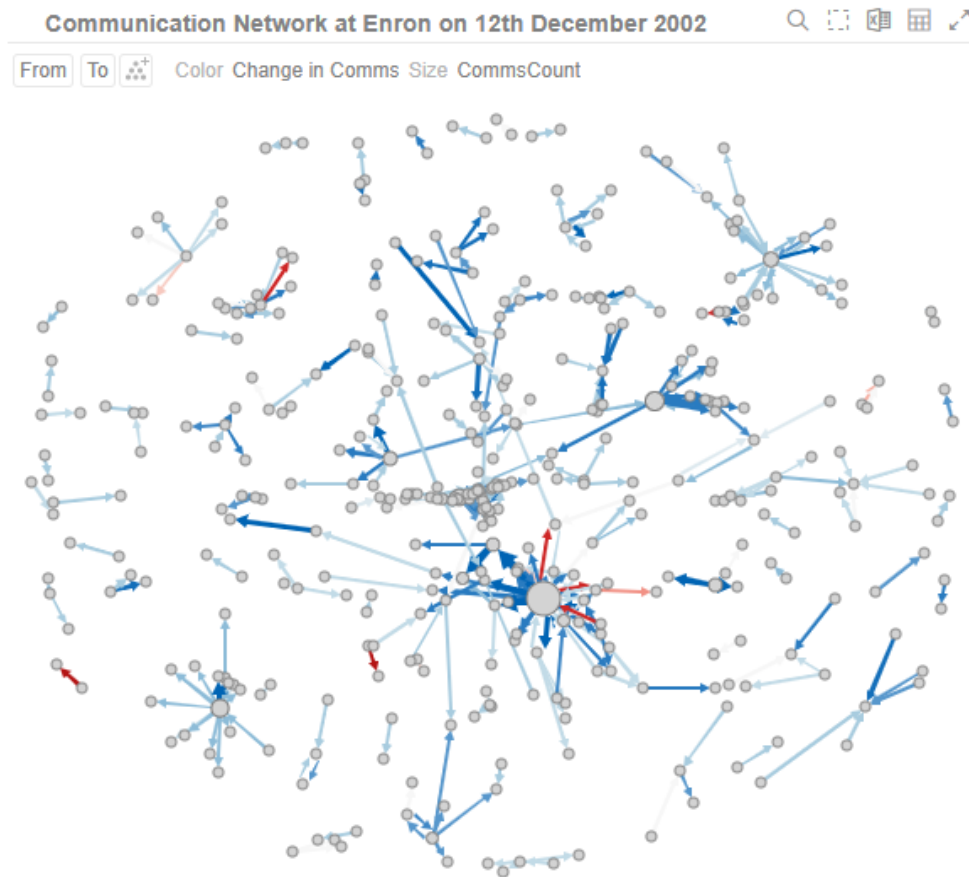
Maximizes the visualization to be displayed on the full dashboard area.

Exporting to Excel (TSV-format) of Visualizations

Click the **Export Excel**  icon of a static visualization. A copy of the CSV-format file is downloaded.

Toggleing Between a Visualization and a Table

Click the **Toggle Display Mode**  icon of a visualization.



It will be replaced with a Table visualization.

Communication Network at Enron on 12th December 2002



From To Color Change in Comms Size CommsCount

From	To	Change in C...	CommsCount	Date	Change in C...	CommsCount	PriorComms...
<input type="checkbox"/> Aimee La...	Daren J Far...	10	10	12/12/2000	10	10	0
<input type="checkbox"/> Alan Com...	Seabron Ad...	2	2	12/12/2000	2	2	0
<input type="checkbox"/> Al Herrm...	undisclose...	-3	3	12/12/2000	-3	3	6
<input type="checkbox"/> Amazon.c...	ebass@enr...	3	3	12/12/2000	3	3	0
<input type="checkbox"/> Andy Zip...	John Arnold	3	3	12/12/2000	3	3	0
<input type="checkbox"/> Angie Ze...	Scott Hendr...	1	1	12/12/2000	1	1	0
<input type="checkbox"/> An La <an...	Amy_Yueh...	3	3	12/12/2000	3	3	0
<input type="checkbox"/> Ann M Sc...	Paul Kaufm...	2	2	12/12/2000	2	2	0
<input type="checkbox"/> Armin Sc...	Scott Hendr...	3	3	12/12/2000	3	3	0
<input type="checkbox"/> ARSyste...	Sally Beck <...	-15	9	12/12/2000	-15	9	24
<input type="checkbox"/> Beverly B...	Edward Terry	2	2	12/12/2000	2	2	0
<input type="checkbox"/> Blakes H...	'parchitzel...	4	4	12/12/2000	4	4	0
<input type="checkbox"/> Bobette R...	lcampbel@...	6	6	12/12/2000	6	6	0
<input type="checkbox"/> Bob M Hall	Sally Beck	3	3	12/12/2000	3	3	0
<input type="checkbox"/> Bode Mi...	'abenton@...	3	3	12/12/2000	3	3	0
<input type="checkbox"/> Body Shop	Edward de ...	3	3	12/12/2000	3	3	0
	Frank L Davis	10	10	12/12/2000	10	10	0
	Glenn Kobes	3	3	12/12/2000	3	3	0
	Robert Hayes	3	3	12/12/2000	3	3	0
<input type="checkbox"/> Brad Alford	W David Du...	3	3	12/12/2000	3	3	0
<input type="checkbox"/> Brian Red...	Robert P Vir...	3	3	12/12/2000	3	3	0
<input type="checkbox"/> Cameron ...	'eldon@inte...	8	8	12/12/2000	8	8	0
	'Jeff.Dasovi...	24	32	12/12/2000	24	32	8
<input type="checkbox"/> Carla Hof...	Tim Belden	12	12	12/12/2000	12	12	0

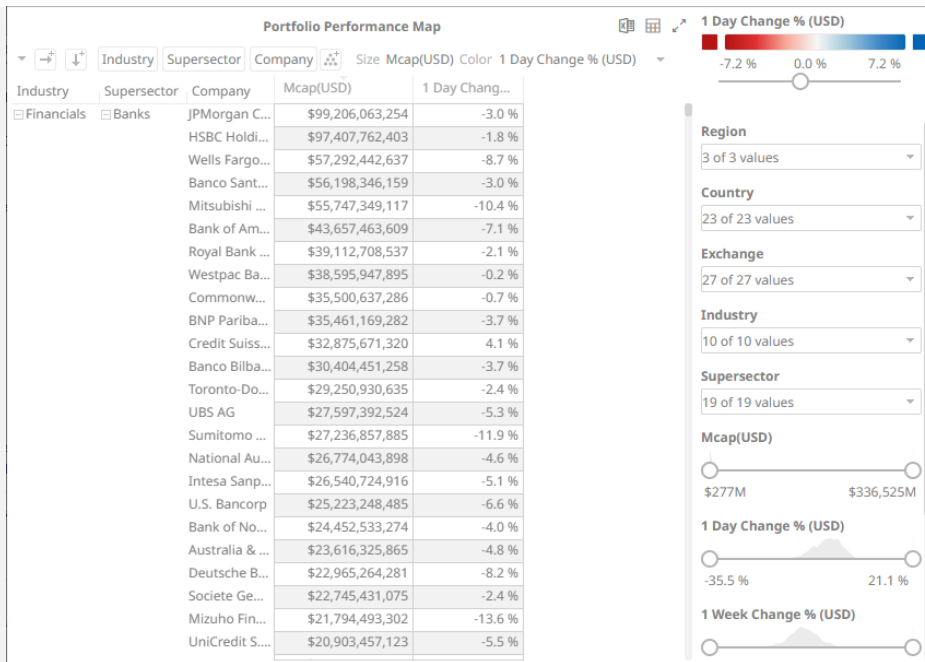
The Table details display the same breakdowns of the original visualization and all the visualization detail variables as visible members of the Table.

NOTE The Table will default to displaying zebra stripes.

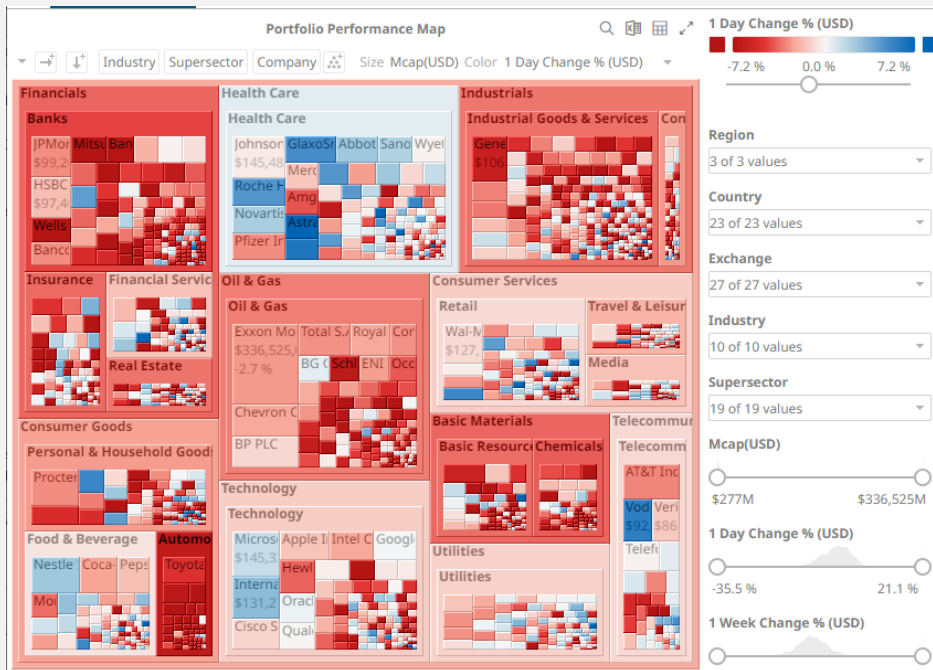
When the **Toggle Display Mode** icon is clicked again, the Table will toggle back to the original visualization.

NOTE

- Closing and opening the dashboard will revert to the original visualization.
- Changing dashboard tabs will revert to the original visualization.
- Applying filters on the dashboard will not cause the Table to be toggled back to a visualization but will display the filtered view of the Table. For example: Industry = Basic Materials and Telecommunications

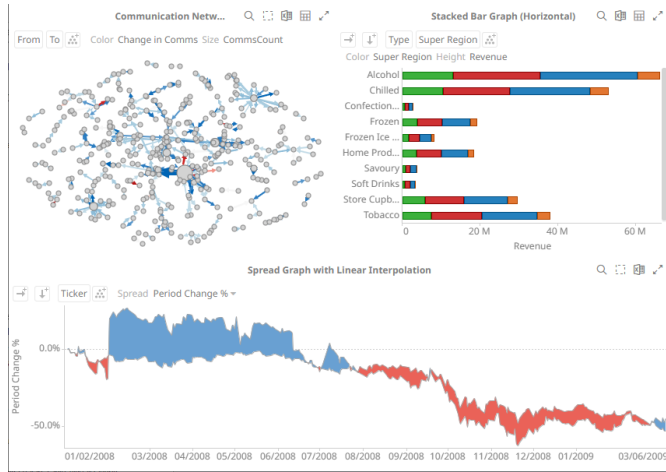


Consequently, toggling back will then display the filtered view of the visualization. The example below will only display Basic Materials and Telecommunications.

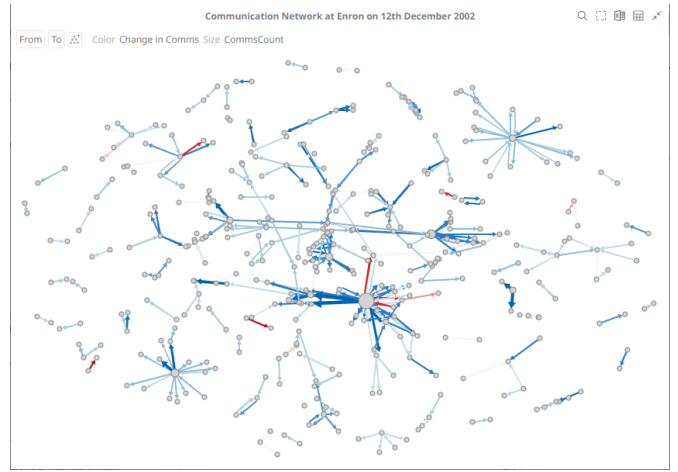


Maximize

Visualizations can be maximized to display the full dashboard area by clicking the **Maximize** icon. To return to normal, click the visualization **Restore** icon.






Before clicking Maximize

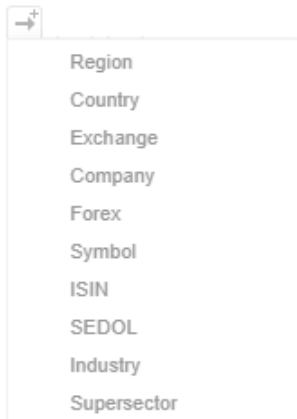


After clicking Maximize

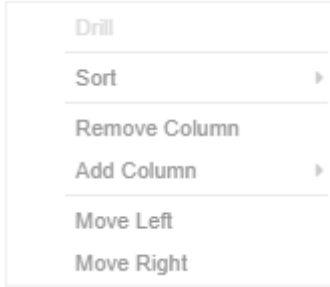
Drilling Into, Sorting, Removing, Adding, and Swapping Columns in a Breakdown and Cross Tab Points

If there are no available columns added as a breakdown  or cross tab *Row*  or *Column* , click the corresponding icon to display and select from the list of text columns available on the associated data table of the visualization.

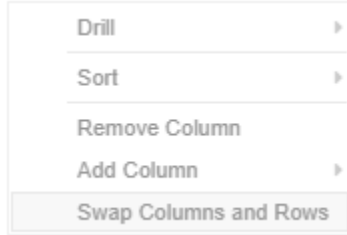
For example:



Right-clicking on a *Breakdown* column displays this context menu.



Right-clicking on a cross tab *Row* or *Column* displays this context menu.

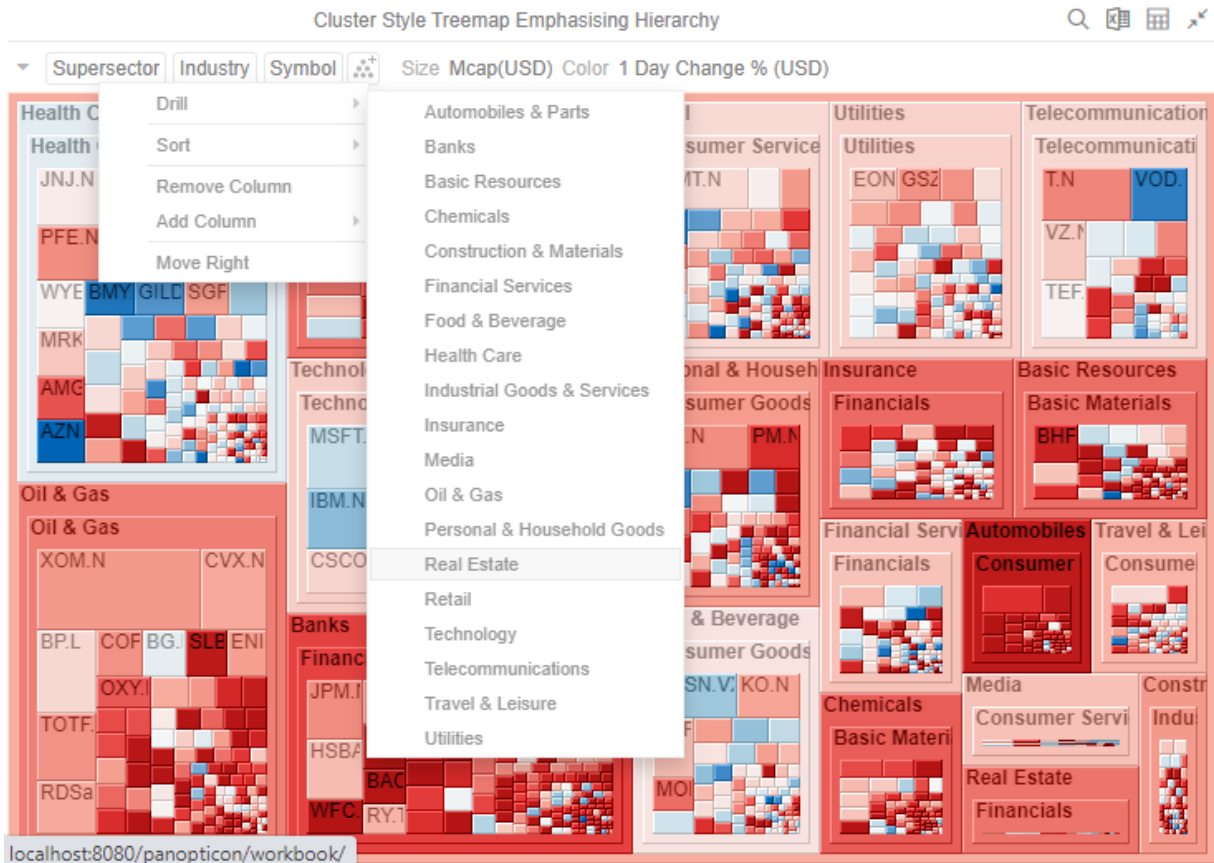


Drilling into Hierarchy Displays

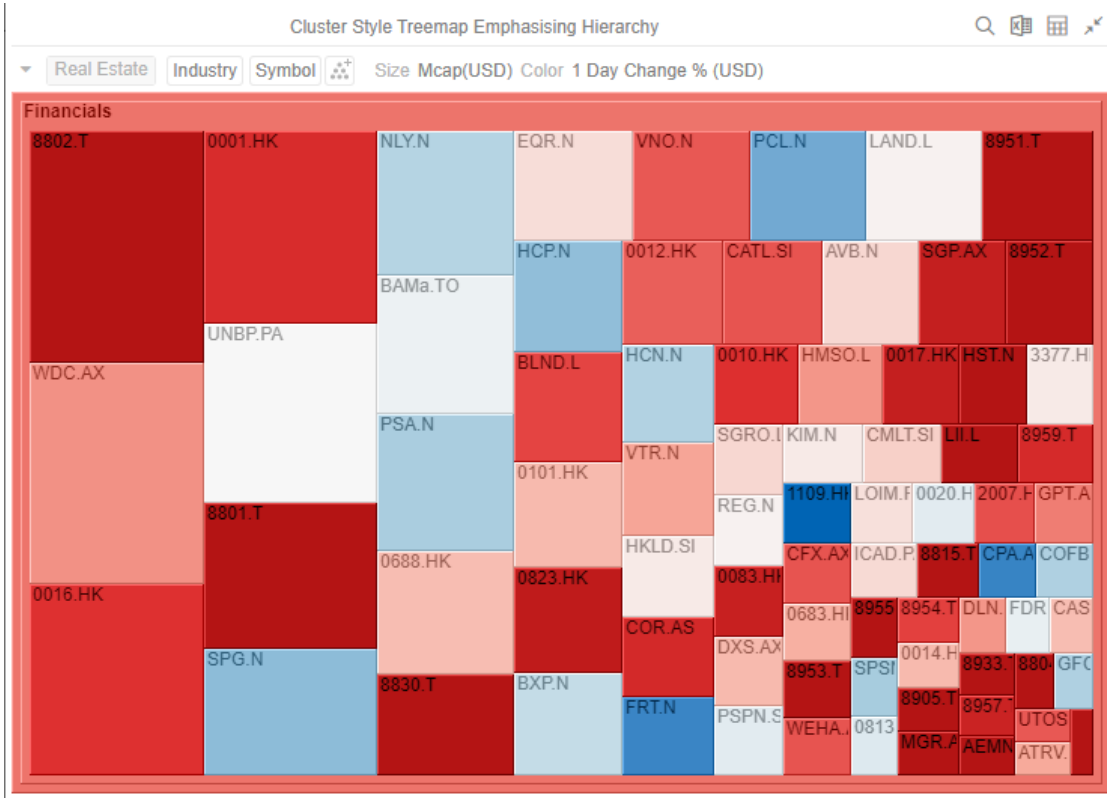
You can drill into cross tab columns, cross tab rows, and breakdown columns.

Steps:

Right-click on a column, select **Drill** and then the level you want to drill down into.



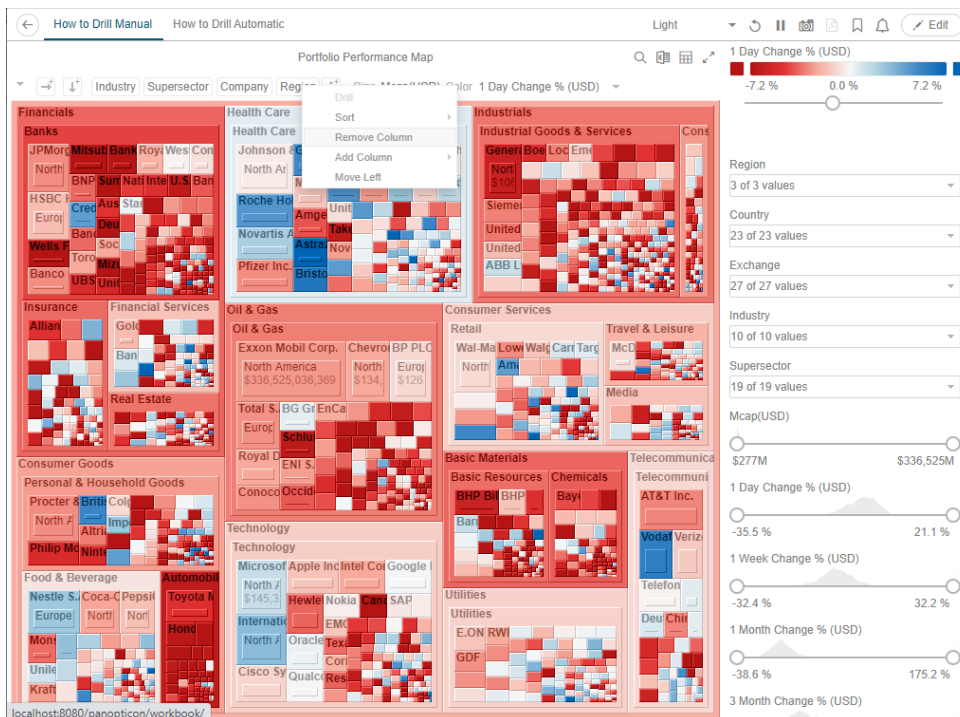
The selected level will appear gray.



Click the gray item to return to the default view that includes all categories in the data.

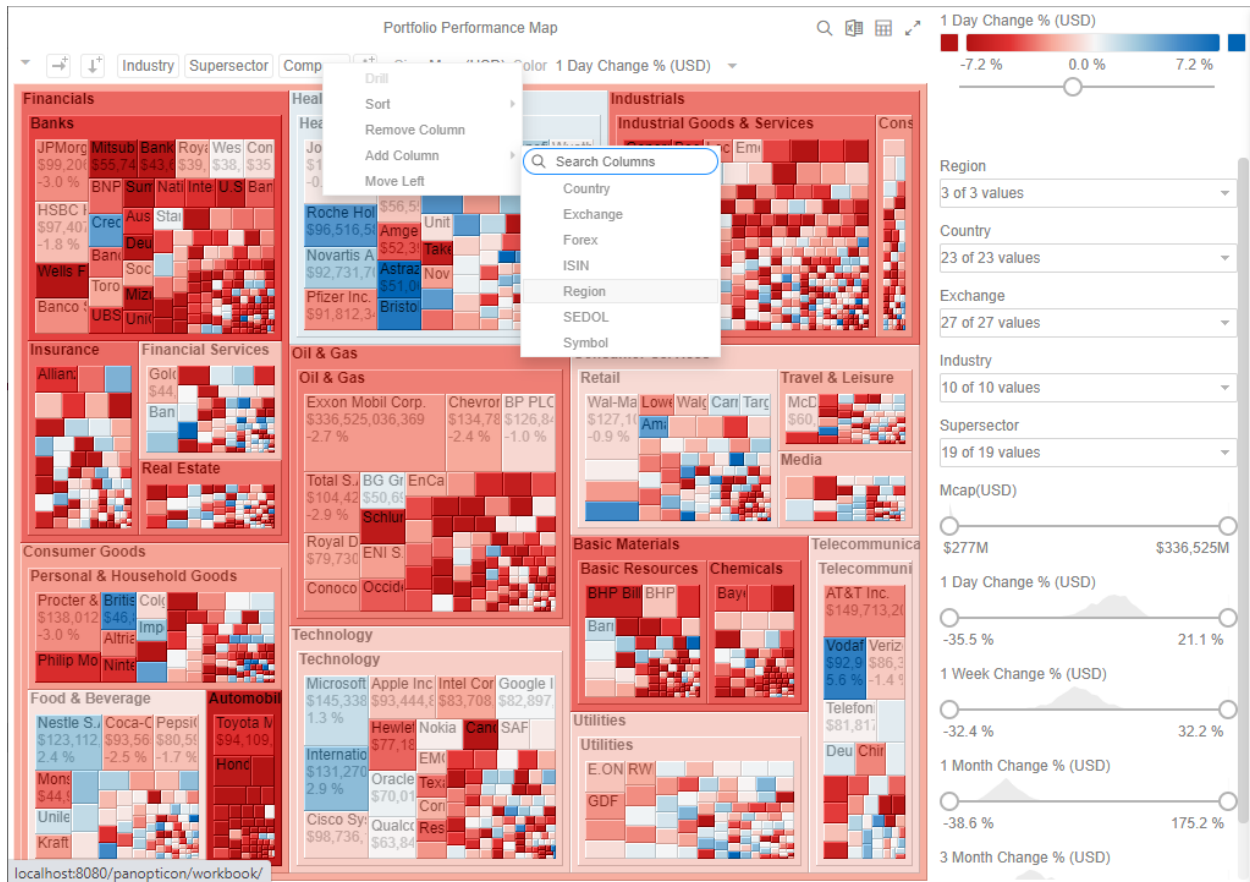
Removing Breakdown or Cross Tab Columns

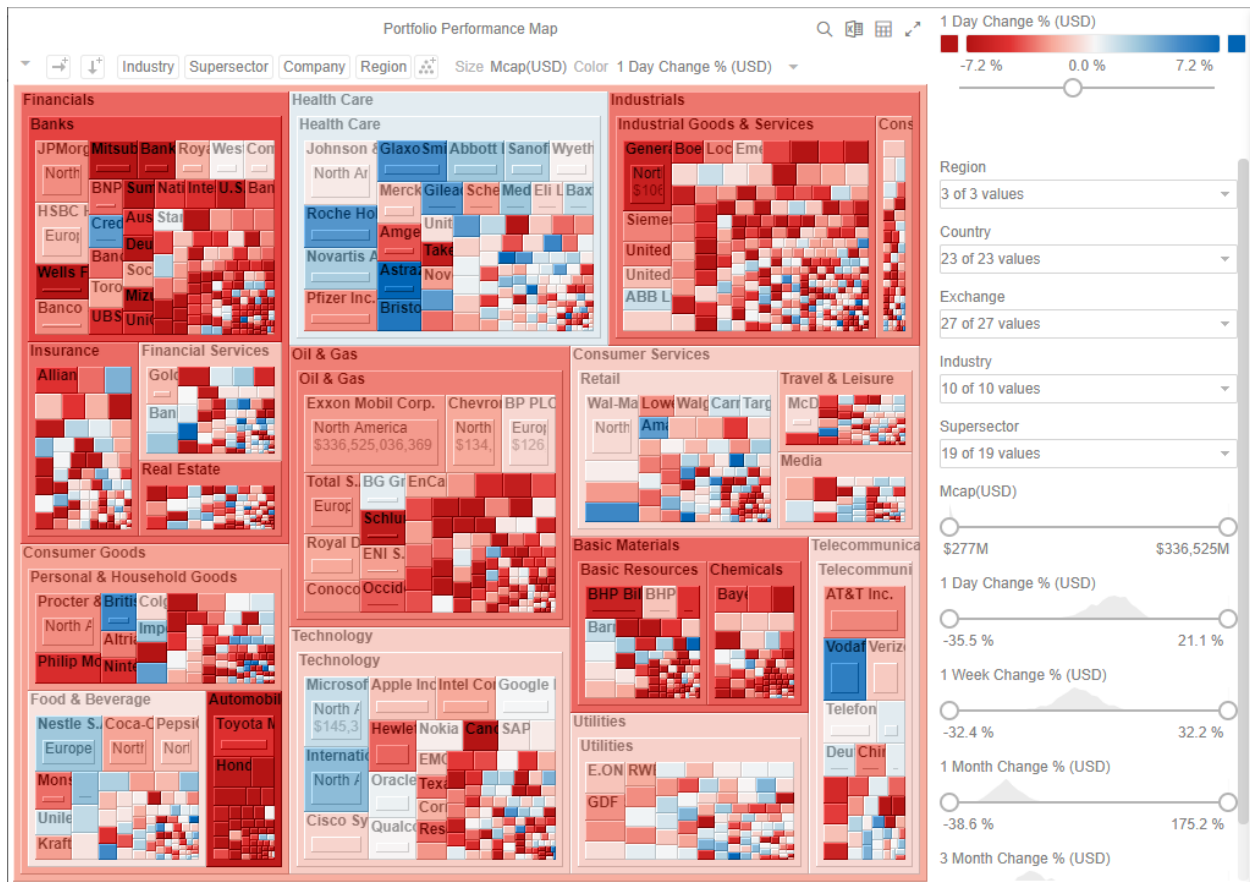
Right-click on a column and select **Remove Column** on the context menu.



Adding Breakdown or Cross Tab Columns

Right-click on a column, select **Add Column** on the context menu and then the column to add. You can filter the list by entering a column into *Search Columns*.





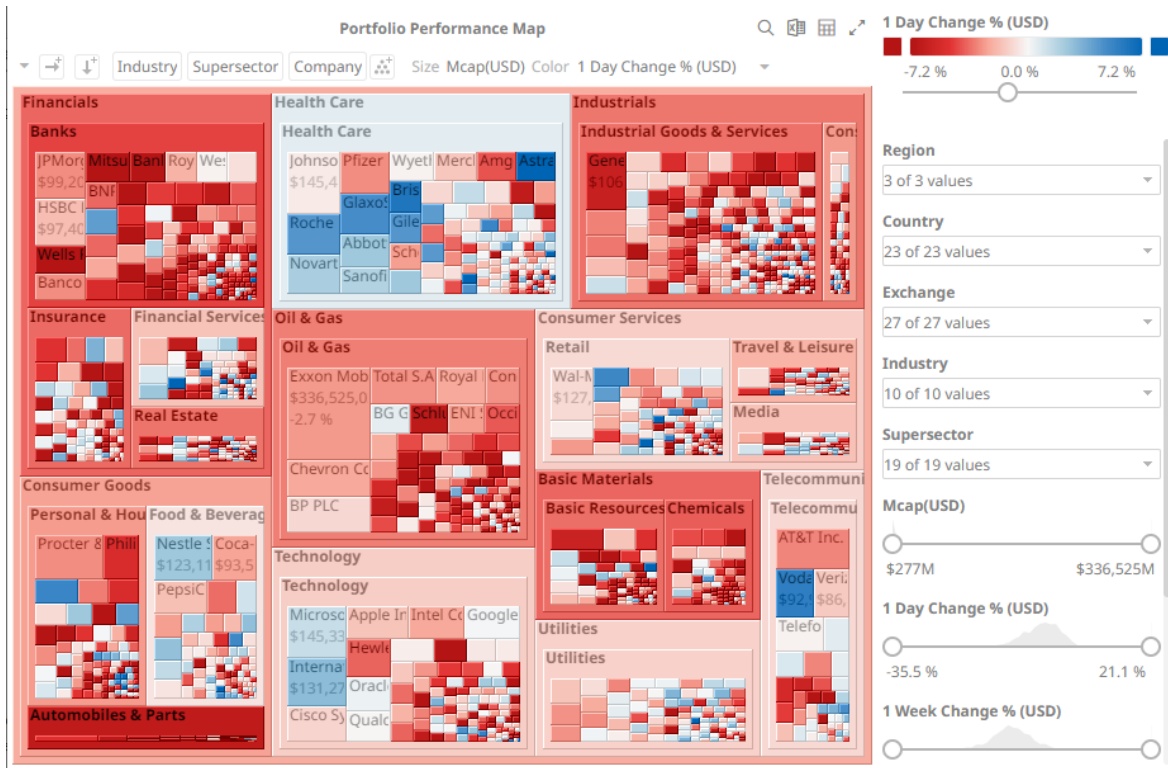
Moving Breakdown Columns

The **Move Right** or **Move Left** options are only available when there is more than one breakdown column.

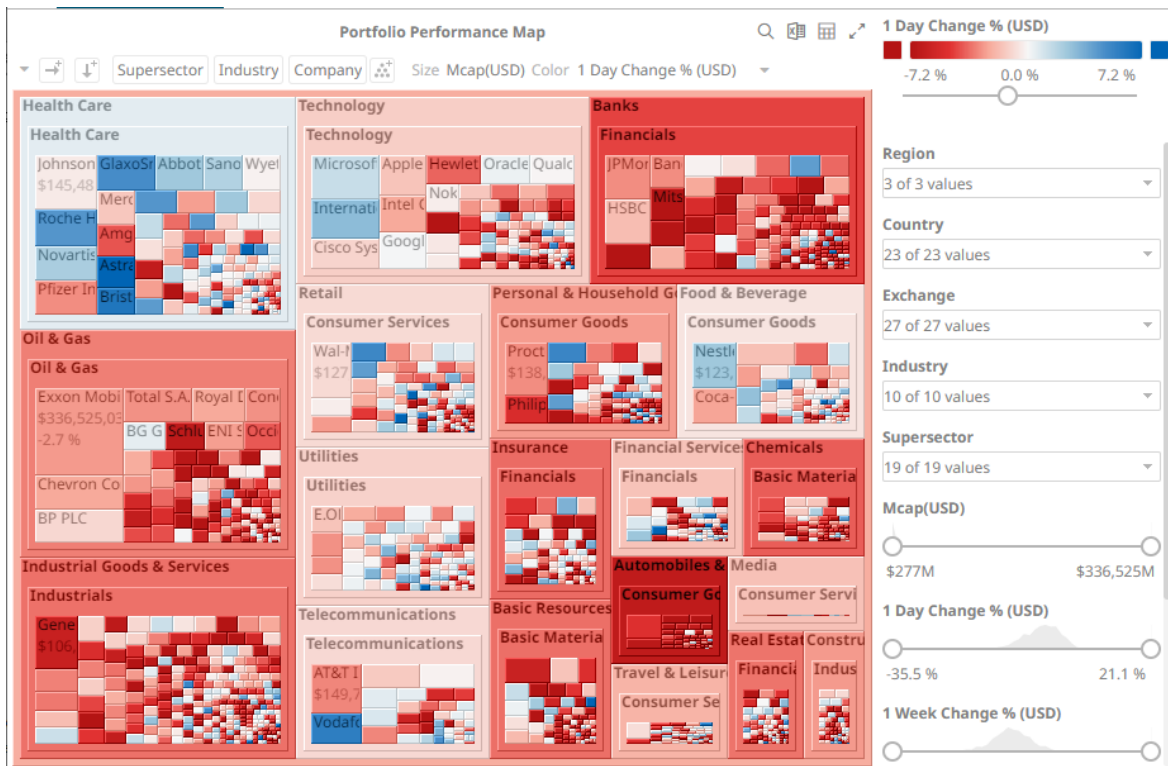
Right-click on a breakdown column and select **Move Right** or **Move Left** on the context menu.

You can also swap or move columns by selecting and dragging them to the preferred hierarchy level.

From: **Industry > Supersector > Company**



To: Supersector > Industry > Company



toggling Between Rows and Columns of a Cross Tab

This feature supports the easy swapping between rows to columns, and vice versa in, the pivot points of a cross tab.

In a visualization that is cross tabbed, right-click on row or column and select **Swap Columns and Rows** on the context menu.

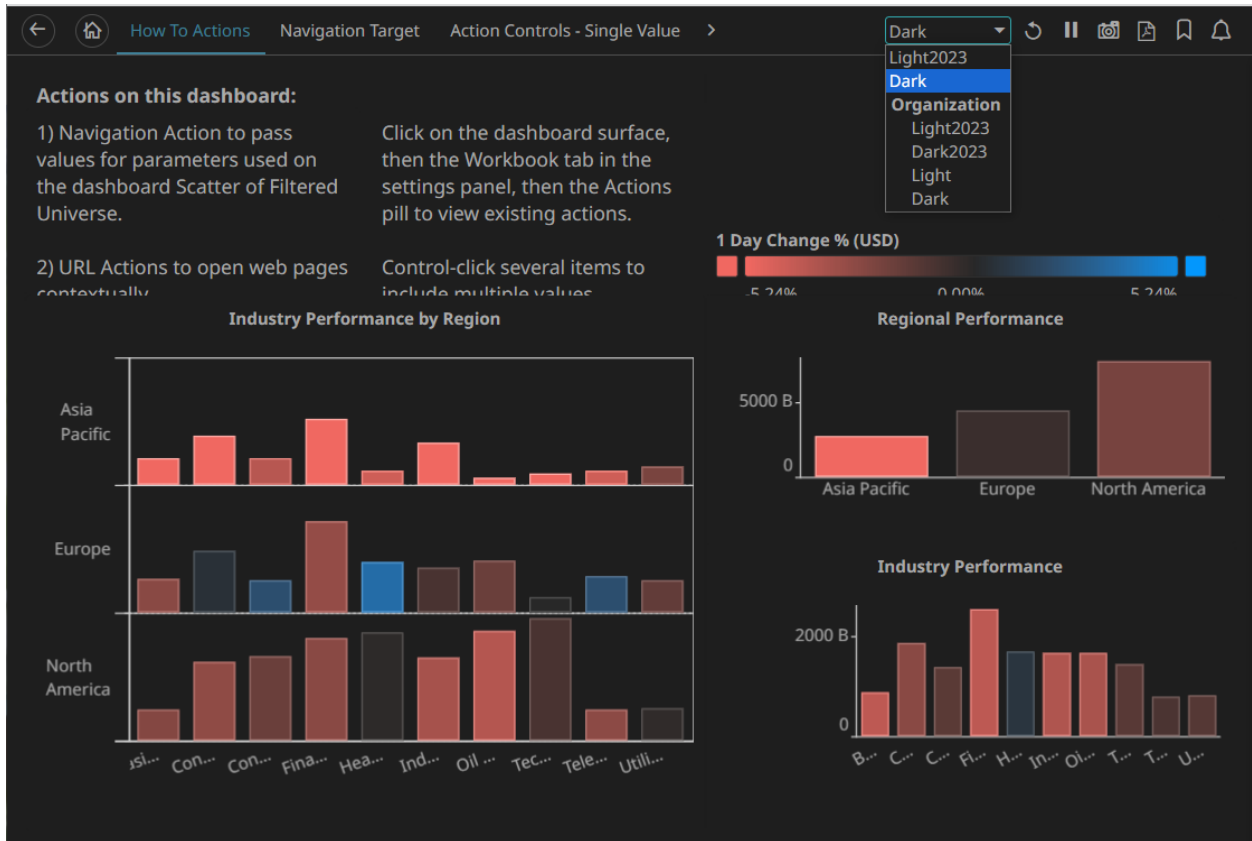
The rows and columns will be swapped in the *Columns* or *Rows* section of the visualization.

You can opt to revert to the original columns of the *Columns* and *Rows* by selecting the **Swap Columns and Rows** on the context menu.

Dynamic Switching of Workbook Theme

You can dynamically switch to other workbook themes.








The screenshot shows a dashboard interface with a navigation bar at the top containing a home icon, the text "How To Actions", "Navigation Target", and "Action Controls - Single Value". A theme switcher dropdown menu is open, showing options: "Light2023", "Organization", "Light2023", "Dark2023", "Light", and "Dark". Below the navigation bar, there are two columns of text: "1) Navigation Action to pass values for parameters used on the dashboard Scatter of Filtered Universe." and "Click on the dashboard surface, then the Workbook tab in the settings panel, then the Actions pill to view existing actions." Below this is "2) URL Actions to open web". The main content area features three charts: "Industry Performance by Region" (a grouped bar chart for Asia Pacific, Europe, and North America across various industries), "Regional Performance" (a bar chart comparing Asia Pacific, Europe, and North America), and "Industry Performance" (a bar chart showing performance across various industries). A "1 Day Change % (USD)" color scale is also visible.



WORKBOOK TOOLBAR


An opened workbook has several toolbar options:

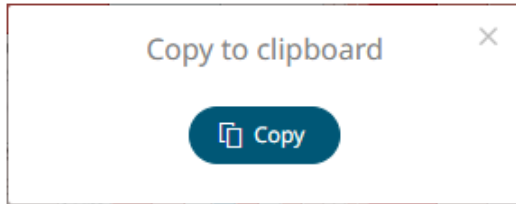



Toolbar Option	Description
Data Refresh 	Manually refreshes the data.
Pause Real-Time 	Clicking the icon changes it to  and pauses the streaming data sources.
Copy Image 	Exports the whole dashboard image to the clipboard.
Create PDF Report 	Set the dashboards that will be included in the PDF report.
Bookmarks 	Add and manage bookmarks.
Alerts 	Manage alerts and notifications.

Copying Dashboard Image

Steps:

1. Click the **Copy Image**  icon on the toolbar.
The **Copy to Clipboard** button displays.



2. Click  to copy and paste the whole dashboard image to another application.

Ad Hoc PDF Generation

Select the dashboards to be included in the generated PDF.

NOTE Before exporting to PDF, ensure the workbook is saved first.

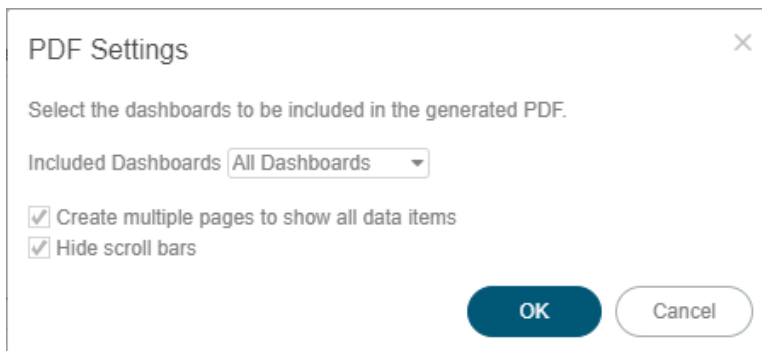
localhost:8080 says

There are unsaved changes, please save the workbook to ensure accurate export to PDF.

OK

Steps:

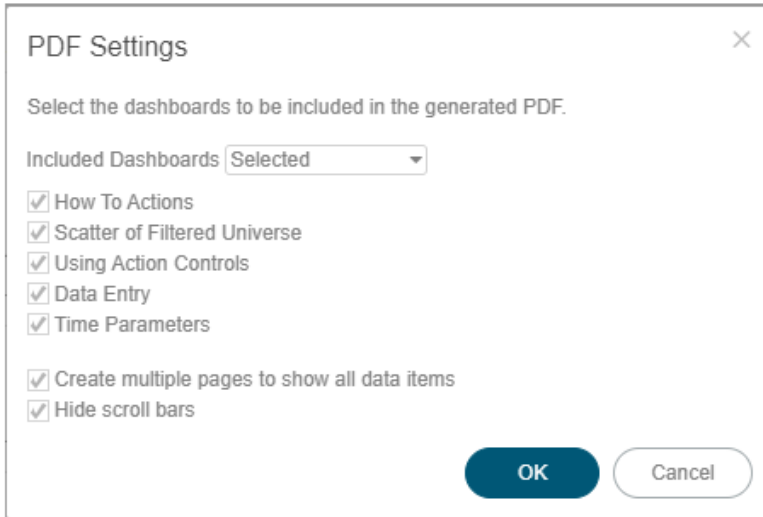
1. Click the **Create PDF Report**  icon on the toolbar.
The *PDF Settings* dialog displays.



2. Select the dashboards to be included:

- All dashboards
- Current dashboard
- Selected

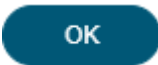
The check boxes are enabled and all the dashboards are checked by default.

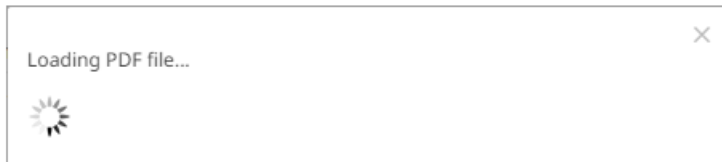


Check only those that will be included in the generated PDF.

Some visualizations show a portion of the available content adding scroll bars. E.g., table, horizon graph, etc.

The final two options of the dialog relate to these visualizations.

3. To output all the content within a visualization that has scroll bars, for example, to output all the rows within a table, check the **Create multiple pages to show all data items** box.
4. To hide scroll bars from the output PDF pages, check the **Hide scroll bars** box.
5. Click  button to start the PDF generation.




This will allow the Panopticon Real Time to read all the datasets necessary to output the dashboard and produce the PDF file.


NOTE

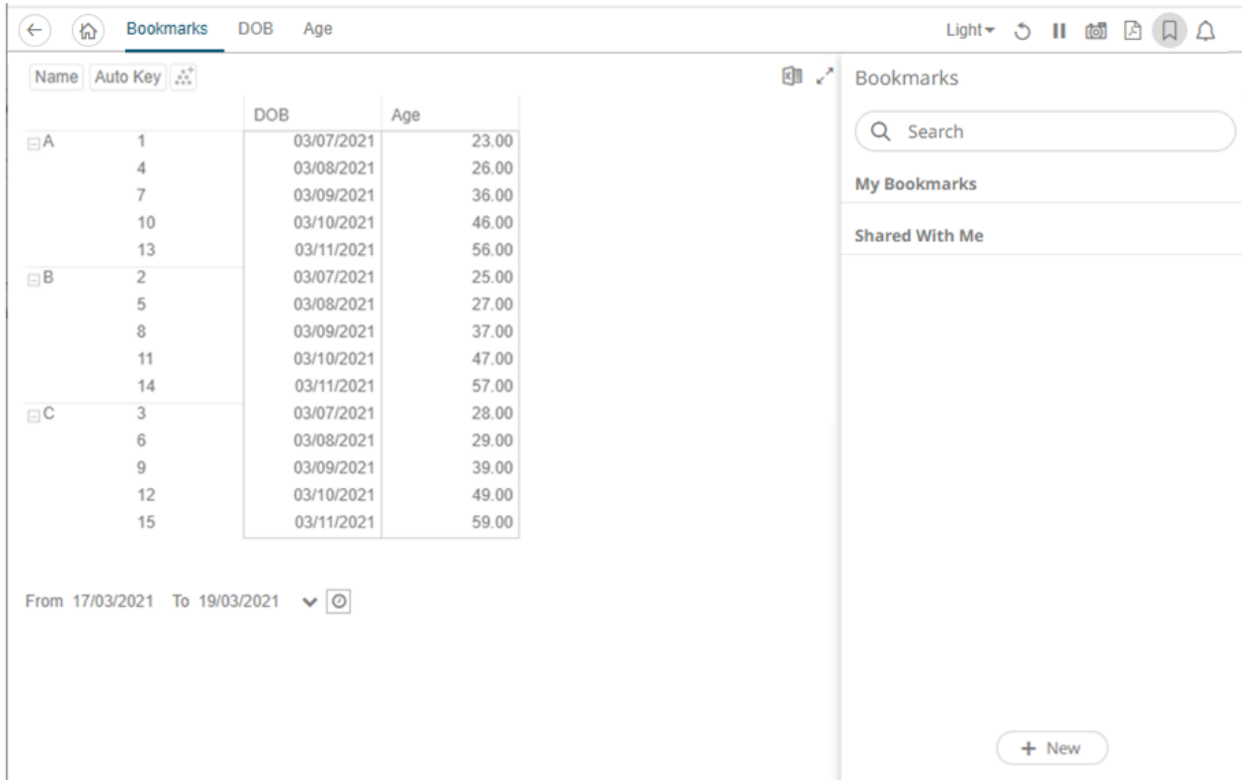
Ad hoc PDF generation in the Web client using Google Chrome (or other browsers) may be hindered by the AdBlock Extension.

To remove the AdBlock Extension in Google Chrome, perform these steps:

1. Click the **Chrome Menu**  icon on the browser toolbar.
2. Highlight *Tools*, then click Extensions from the sub-menu.
3. Click **Remove** in the AdBlock Plus entry (e.g., uBlockOrigin).
4. Click **Remove** in the confirmation message that displays.

Bookmarking

Bookmarks are saved configurations of the active dashboard and workbook. A bookmark can be added, by authenticating, and clicking on the **Bookmarks**  icon.



Name	Auto Key	DOB	Age
A	1	03/07/2021	23.00
	4	03/08/2021	26.00
	7	03/09/2021	36.00
	10	03/10/2021	46.00
	13	03/11/2021	56.00
B	2	03/07/2021	25.00
	5	03/08/2021	27.00
	8	03/09/2021	37.00
	11	03/10/2021	47.00
	14	03/11/2021	57.00
C	3	03/07/2021	28.00
	6	03/08/2021	29.00
	9	03/09/2021	39.00
	12	03/10/2021	49.00
	15	03/11/2021	59.00

Bookmarks are not available with anonymous access workbooks.

Bookmarks do not save data, but do save the selected:

- Dashboard
- Parameters
- Filters
- Breakdowns, Hierarchies, Visible Depth, and Drill Level
- Variables (Size, Color, X, Y, etc.)

Consequently, although the underlying data may change, a specific view of that data can be specified and bookmarked for future usage.

Bookmarks can be added and are available to all authenticated users of the workbook.


Bookmarks also generate a unique URL, which can be sent to another individual with access, allowing them to see exactly the same view of the selected dashboard.

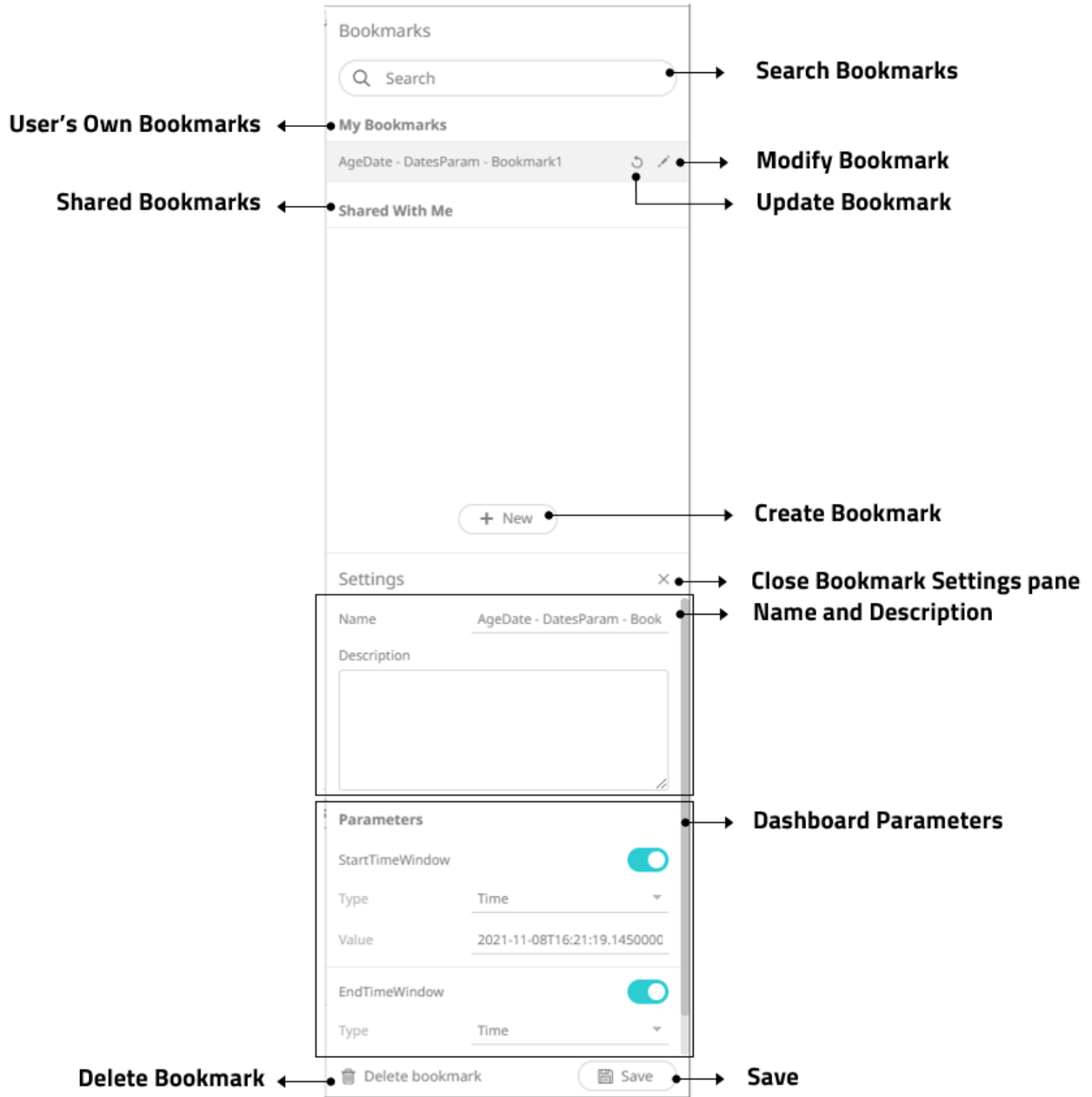
New bookmarks can be added by clicking the **New**  button.

A new instance of the bookmark is added under the My Bookmarks section in the Bookmarks pane. The bookmark is initially named **<Workbook> - <Dashboard> - Bookmark<number>**.

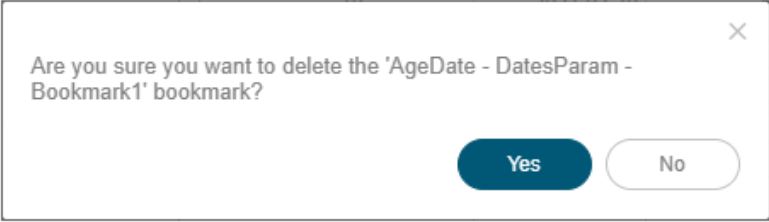
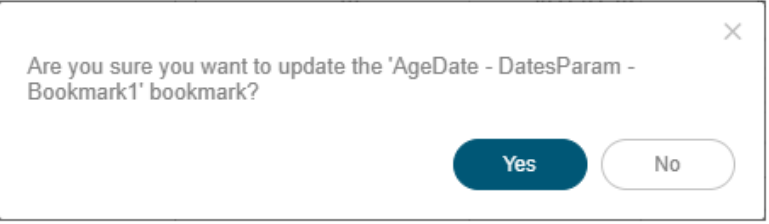
The screenshot displays the 'Bookmarks' application interface. The main area contains a table with columns for 'Name', 'Auto Key', 'DOB', and 'Age'. The data is organized into three groups: A, B, and C. Below the table, there is a date range filter set to 'From 17/03/2021 To 19/03/2021'. The right sidebar, titled 'Bookmarks', includes a search bar, a section for 'My Bookmarks' with one entry 'BookMarked - Bookmarks - Bookmark1', and a 'Shared With Me' section. A '+ New' button is located at the bottom right of the sidebar.

Name	Auto Key	DOB	Age
A	1	03/07/2021	23.00
	4	03/08/2021	26.00
	7	03/09/2021	36.00
	10	03/10/2021	46.00
	13	03/11/2021	56.00
B	2	03/07/2021	25.00
	5	03/08/2021	27.00
	8	03/09/2021	37.00
	11	03/10/2021	47.00
	14	03/11/2021	57.00
C	3	03/07/2021	28.00
	6	03/08/2021	29.00
	9	03/09/2021	39.00
	12	03/10/2021	49.00
	15	03/11/2021	59.00

Click **Modify**  icon to define the settings of the bookmark. The *Bookmark Settings* pane is displayed.



Property	Description
My Bookmarks	User's own bookmarks.
Shared Bookmarks	Bookmarks shared to the user.
Delete Bookmark	Remove the bookmark.

	 <p>Are you sure you want to delete the 'AgeDate - DatesParam - Bookmark1' bookmark?</p> <p>Yes No</p>
	Click Yes on the notification message to delete the bookmark.
Search Bookmark	To search for a particular bookmark, enter it in the <i>Search</i> box. You can also enter one or more characters into the <i>Search</i> box and the suggested list of bookmarks that matched the entries will be displayed.
Modify Bookmark	Display the <i>Bookmark Settings</i> pane for the modification of the bookmark settings.
Update Bookmark	Update the bookmark settings.  <p>Are you sure you want to update the 'AgeDate - DatesParam - Bookmark1' bookmark?</p> <p>Yes No</p>
	Click Yes on the notification message to update.
Create Bookmark	Allows the creation of a new bookmark.
Close	Close the <i>Bookmark Settings</i> pane.
Name	Name of the bookmark.
Description	Description of the bookmark.
Dashboard Parameters	Available dashboard parameters. <p>NOTES:</p> <ul style="list-style-type: none"> Excluding a parameter value sets its value in the bookmark to type Text and empty string value. This will allow the dashboard logic to dictate the parameter value that should be used when opening the bookmark. For example, if the dashboard contains an Action Date Picker that defaults to now, and that same parameter value is excluded from the bookmark, then the Action Date Picker default value will be the value when the bookmark is opened. Directly modifying the parameter value in the bookmark (such as entering now, today, or yesterday) is not supported.
Save	Enabled when a change is made in the bookmark settings. Click to save.

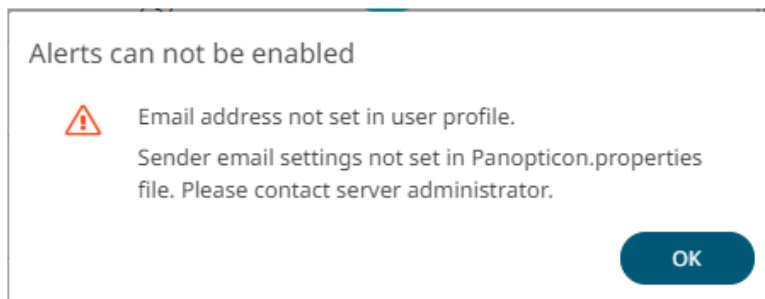
[2] ALERTING

The Alerts function allows to notify you when the data in a visualization has met your predefined settings.

If alerts are required to be sent via email, the following properties must be configured first in the `Panopticon.properties` file.

Property	Alert
Attribute	<code>alert.creation.only.by.administrators</code>
Description	Enable or disable whether only Administrators can create alerts.
Default Value	false
Property	Alert
Attribute	<code>email.address</code>
Description	The email address where the alert will be sent from.
Default Value	
Property	Alert
Attribute	<code>email.password</code>
Description	The email password, if available.
Default Value	
Property	Email
Attribute	<code>email.host</code>
Description	The host name used by the email server.
Default Value	
Property	Email
Attribute	<code>email.port</code>
Description	The port number used by the email server.
Default Value	

Otherwise, when trying to enable an alert, this error will be displayed:



Save the updated file and restart Tomcat.

Setting Up Alerts on the Web Client

Alerts can be defined against:


- Streaming data sources (including CEP Engines and message queues)
- Periodically refreshed data sources (like Oracle, SAP Sybase, SQL Server, and so on)

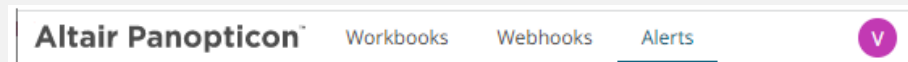
Alert definition can be done by right-clicking on a streaming numeric data in a visualization in the Web client and setting the limits, duration, what will be included, how many and when an email will be sent.

NOTE

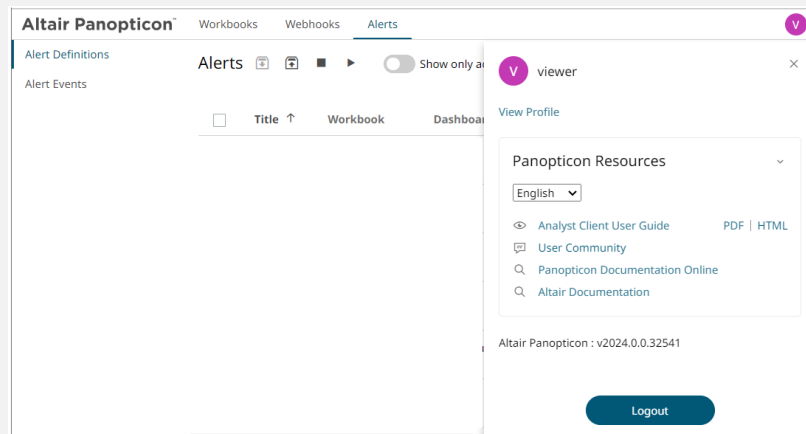
Before setting up the visualization alert, enter the email of the user or group who will receive the alert on the *User Profile*:

Steps:

1. On the toolbar, click .

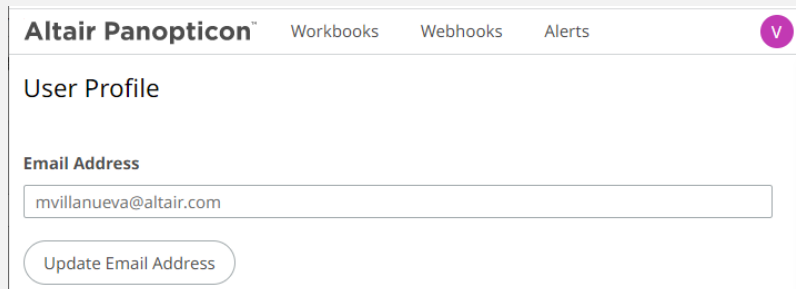


The drop-down menu displays.

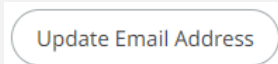


2. Click *View Profile*.

The *User Profile* page displays.

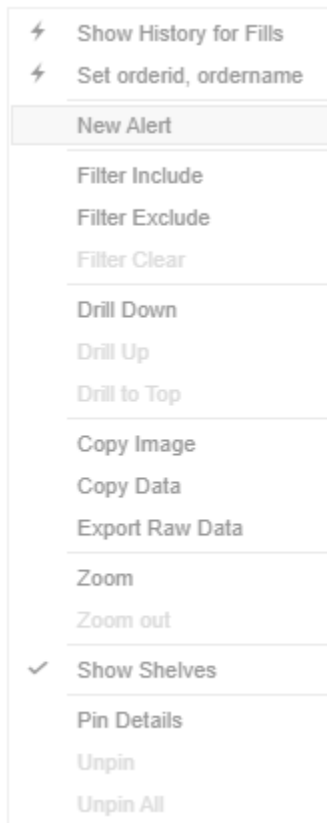


3. Enter the *Email Address*.

4. Click .

Steps:

1. Open a workbook on the Web client and right-click on a streaming numeric data in a visualization. Select *New Alert* on the context menu.



The *Alerts* dialog displays with the name of the visualization where the alert will be set.

Alert for Simple Summary > By Algo Activated

Name

Description

Criteria 1 +

Variable	Condition	Limit
usdfilledvalue	Sum(usdfilledvalue) <=	
pcntfilled	WeightedMean(pcntfilled,usdtotal...	
algotype	TextUnique(algotype) Equals	Cost Driven
algoname	TextUnique(algoname) Equals	Implementation Shortfall

For the last second(s)

Breakdown

Parameters

Action Limit max per second(s)

Send E-mail on enter/leave Include visualization image Use current drill path

CC

Sound

Webhook 0 of 6

Active Hours

OK Cancel

2. Enter or select the following properties:

Property	Description
Name	Name of the alert.
Description	Description of the alert.
Search	Search for columns.
Criteria	<p>Criteria set of the alert. Can be multiple, in which case all criteria sets are evaluated in parallel, each triggering respective alerts.</p> <p>Additional criteria sets can be added by clicking +. You can also right-click a Criteria tab and select Rename to rename the criteria or select Remove to delete. The Remove option is disabled when only one criteria set is available.</p>
Variable	Available variable columns in the visualization where the alert is set.
Condition	Allows setting the following <i>Limit</i> of all the available numeric variables in the visualization:

	<ul style="list-style-type: none"> • Upper or Equal To (<=) • Lower or Equal To (>=) • Upper values (<) • Lower values (>) • Between – values between the <i>Lower</i> and <i>Upper</i> values <p>For text variables, there are four types of conditions:</p> <ul style="list-style-type: none"> • Equals - The string is equal to another string, e.g., Country=Sweden • Not Equals – The string is not equal to another string • Wildcard: The string matches a wildcard expression, e.g., Country=Norwa* would match Country=Norway • Regex: The string matches a regex expression, e.g., Country= [a-zA-Z]+a would match Country=India and Country=Indonesia
For the Last	<p>Checks if a value has reached the limit on the set Date/Time unit:</p> <ul style="list-style-type: none"> • second(s) • minute(s) • hour(s) • day(s)
Breakdown	Current breakdown of the visualization.
Parameters	Available parameters in the visualization.
Action Limit	<p>The maximum number of times an alert will be sent on the set Date/Time unit:</p> <ul style="list-style-type: none"> • second(s) • minute(s) • hour(s) • day(s)
Send E-mail	<p>Determines when an alert email will be sent:</p> <ul style="list-style-type: none"> • On enter • On leave • On enter/leave <p>If not selected, the notification will only be displayed on the Web client.</p>
Include	<p>Determines whether the image of the visualization or dashboard will be included in the alert email.</p> <p>For the included image of the visualization, check the Use current drill path box to generate a drilled image in the email.</p>
CC	CC mailing groups that will receive the alerts, separated by a comma
Sound	<p>The sound that will be played for a triggered alert. The available sounds are mp3 files placed in the AppData/Sounds folder (i.e., C:\vizserverdata\Sounds). Panopticon is shipped with one sound (i.e., bell_ping_1s.mps).</p>

<input checked="" type="checkbox"/> Sound <input type="checkbox"/> Webhook <input type="checkbox"/> Active Hours	alarm_clock beep_short bell_ping_1s
Default is None .	
Webhook	Webhooks that will be executed when the alert is triggered.
Active Hours	Determines when an alert should be active. Proceed to step 3.

3. Check the *Active Hours* box. The dialog changes to display:

Alert for Simple Summary > By Algo Activated

Name

Description

> 50 > 100

Variable	Condition		Limit
usdfilledvalue	Sum(usdfilledvalue)	>	50
pcntfilled	WeightedMean(pcntfilled,usdto...	<=	
algotype	TextUnique(algotype)	Equals	Cost Driven
algoname	TextUnique(algoname)	Equals	Market Close

For the last second(s)

Breakdown

Parameters

Action Limit max per

Send E-mail Include image Use current drill path

CC

Sound

Webhook

Active Hours

from to

MONDAY
 TUESDAY
 WEDNESDAY
 THURSDAY
 FRIDAY
 SATURDAY
 SUNDAY

Show in Timezone

By default, the duration is from **9:00 AM** to **5:00 AM** on **Monday, Tuesday, Wednesday, Thursday, and Friday**.

- To modify the *Active Hours*, click  .

The *Clock* settings display.


09	00	AM
10	01	PM
11	02	
12	03	
01	04	
02	05	
03	06	

- Select the *Hour*, *Minutes*, and *AM/PM* settings.
- To modify the *Active Days*, check the boxes of the desired days.
- To apply the active hours in another time zone, select the desired value from the *Show in Timezone* drop-down list box.

Once set, the *From* and *To* limits will be applied for that time zone. If not set, the server default time zone will be used.

- Tap the **Activated** slider to turn it on.



- Click  . The new alert is added on the *Alerts* page.

NOTE

When creating alerts for grand total, ensure that no breakdown is set.

See [Working with Alerts](#) for more information.

Sample Email Alerts

An alert is generated when the alert set state changes from **Off** to **On** and recorded in the alert history.

An alert is only issued by email if the alert has not already been sent in the last 'n' minutes as defined in the *Alerts* dialog.

When an alert is issued, an email is sent to the defined email address.

The email includes:

- Link to the workbook or dashboard
- Condition and limit value
- Breakdown
- Name of the visualization where the alert was set

- ❑ PNG image of the visualization or dashboard

All items that do not match the criteria are excluded from the display.

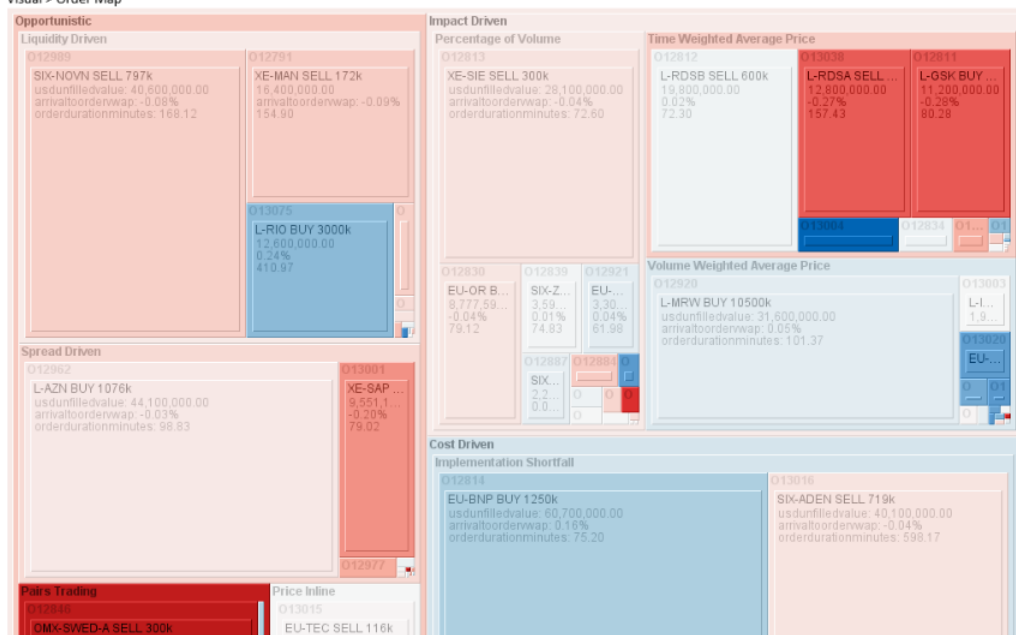
Dashboard: http://localhost:8080/panopticon/workbook/#/ecs_kx/Visual

Condition: Sum(fills) >= 10.0

The alert was triggered by the following items:

algotype:Opportunistic, algoname:Liquidity Driven, sym:O12989, ordername:SIX-NOVN SELL 797k

Visual > Order Map



Sample Web Client Alerts

When an alert is triggered, aside from the email notifications, a visual indication or pop-up in active Web clients will draw attention to the alerting visualization or dashboard.

In the example below, alerts initially display highlighted in blue:

Visual Cover Intro Tabular Simple Summary > OrderBookVecs

Order Name	Total Order \$	% Filled
BIT-A2A BUY 4k	\$2,039	92.9%
BIT-AGL SELL 5k	\$49,783	80.7%
BIT-AZM SELL 4k	\$57,630	100.0%
BIT-BMPS SELL ...	\$387	100.0%
BIT-BP SELL 4k	\$6,100	89.6%
BIT-BPE SELL 0k	\$543	100.0%
BIT-BPE SELL 4k	\$24,372	50.0%
BIT-CPR SELL 0k	\$1,378	100.0%
BIT-CPR SELL 6k	\$48,341	100.0%
BIT-EGPW SELL ...	\$12,118	100.0%
BIT-ENEL SELL ...	\$211,737	97.3%
BIT-EXO BUY 0k	\$16,025	100.0%
BIT-EXO BUY 4k	\$109,573	100.0%
BIT-F BUY 9k	\$39,080	39.3%
BIT-FI SELL 8k	\$87,315	75.3%
BIT-G SELL 21k	\$348,017	99.2%
BIT-IPG SELL 2k	\$10,911	13.3%
BIT-ISP BUY 21k	\$32,535	100.0%
BIT-LUX SELL 4k	\$178,883	100.0%
BIT-MB SELL 3k	\$19,074	42.9%
BIT-PC SELL 0k	\$413	100.0%
BIT-PC SELL 2k	\$21,232	100.0%
BIT-PLT BUY 1k	\$2,232	47.4%
BIT-SFER SELL 3k	\$78,816	100.0%

Order Map

algotype | algoname | orderid | ordername

Size usdunfilledvalue | Color arrivaltoorderwap

Opportunistic

Liquidity Driven

O13075

L-RIO BUY 3000k

74,500,000.00

O12989

SIX-NOVN

Pairs Trading

O12841

OMX-

32,000

O12910

Price Spread

Impact Driven

Time Weighted Average

O13004 O13013

O12920

Volume Weight Percent

O12920

L-MRW

Cost Driven

Implementation Short

O13016

SIX-ADEN SELL

O12814 O12991

EU-BNP

O13016

Market Close

Order Sca...

Height arrivaltoorderwap

Size Unfilled \$ | X Participation

Slippage (Arrival to Exec)

Y

Slippage (Arrival to Exec)

0.00%

Alerts

- Sum(fills) => 100 2024-03-13 20:49
algotype:Opportunistic, algoname:Liquidity Driven, orderid:Visual
- Sum(fills) => 100 2024-03-15 17:58
algotype:Opportunistic, algoname:Liquidity Driven, orderid:Visual
- Sum(orderdurationminutes) => 50 2024-03-13 15:15
algotype:Opportunistic, algoname:Liquidity Driven, orderid:Visual
- Sum(orderdurationminutes) => 50 2024-03-13 15:15
algotype:Opportunistic, algoname:Liquidity Driven, orderid:Visual

Client Order Details for Order EU-BNP BUY 1250k [O12814]

	fills	ordersize	Filled Size	participation	Filled Value	execvaluecum	Diff to Venue Price %	Diff to Venue
XPAR	69	1,250,000	319,288	203.56%	13,000,000		0.01%	
XGRM	38	1,250,000	171,872	91.69%	7,000,334		0.01%	
TROX	35	1,250,000	163,091	97.34%	6,645,333		0.00%	

The blue highlight eventually fades away.

The screenshot displays the Altair Panopticon OrderBook interface. On the left, a table lists various orders with columns for Order Name, Total Order \$, and % Filled. The main area is divided into several panels: 'Order Map' showing a grid of order types (Opportunistic, Liquidity Driven, Pairs Trading, Cost Driven, Impact Driven), 'Order Sca...' showing a chart of slippage, and 'Client Order Details for Order EU-BNP BUY 1250k [O12814]' showing a table of fills for XPAR, TRQX, and XGRM. An 'Alerts' pop-up window is visible on the right, listing several alerts with conditions like 'Sum(fills) => 100' and 'Sum(orderdurationminutes) => 50'. A legend on the far right identifies the colors used for different algo names.

Order Name	Total Order \$	% Filled
BIT-AZA BUY 4k	\$2,039	92.9%
BIT-AGL SELL 5k	\$49,725	80.7%
BIT-AZM SELL 4k	\$57,630	100.0%
BIT-BMPS SELL ...	\$387	100.0%
BIT-BP SELL 4k	\$6,099	89.6%
BIT-BPE SELL 0k	\$543	100.0%
BIT-BPE SELL 4k	\$24,372	50.0%
BIT-CPR SELL 0k	\$1,378	100.0%
BIT-CPR SELL 6k	\$48,341	100.0%
BIT-EGPW SELL ...	\$12,118	100.0%
BIT-ENEL SELL ...	\$211,725	97.3%
BIT-EXO BUY 0k	\$16,025	100.0%
BIT-EXO BUY 4k	\$109,573	100.0%
BIT-F BUY 9k	\$39,009	39.3%
BIT-FI SELL 8k	\$87,327	75.3%
BIT-G SELL 21k	\$348,012	99.2%
BIT-IPG SELL 2k	\$10,911	13.3%
BIT-ISP BUY 21k	\$32,535	100.0%
BIT-LUX SELL 4k	\$178,883	100.0%
BIT-MB SELL 3k	\$19,074	42.9%
BIT-PC SELL 0k	\$413	100.0%
BIT-PC SELL 2k	\$21,232	100.0%
BIT-PLT BUY 1k	\$2,234	68.8%
BIT-SFER SELL 3k	\$78,816	100.0%

Client Order Details for Order EU-BNP BUY 1250k [O12814]								
	fills	ordersize	Filled Size	participation	Filled Value	execvaluecum	Diff to Venue Price %	Diff to Venue
XPAR	45	1,250,000	214,348	203.90%	8,736,254		0.07%	
TRQX	25	1,250,000	130,647	99.23%	5,322,748		0.02%	
XGRM	27	1,250,000	128,657	92.97%	5,237,901		0.00%	

The pop-up stays on screen until it is closed by clicking the button.

You can open an alert either by:

- Clicking the **Alert** icon
- Clicking an alert on the pop-up

The screenshot shows the Altabox interface with a notification in the Alerts panel. The notification is for 'Sum(fills) => 100' and is highlighted. The main workspace shows an Order Map and Client Order Details for Order EU-BNP BUY 1250k [O12814].

Order Name	Total Order \$	% Filled
BIT-A2A BUY 4k	\$2,038	92.9%
BIT-AGL SELL 5k	\$49,725	80.7%
BIT-AZM SELL 4k	\$57,630	100.0%
BIT-BP SELL 4k	\$6,095	89.6%
BIT-BPE SELL 0k	\$543	100.0%
BIT-CPR SELL 0k	\$1,378	100.0%
BIT-EGPW SELL ...	\$12,118	100.0%
BIT-ENEL SELL ...	\$211,688	97.3%
BIT-EXO BUY 0k	\$16,025	100.0%
BIT-EXO BUY 4k	\$109,573	100.0%
BIT-F BUY 9k	\$38,923	39.3%
BIT-FI SELL 8k	\$87,327	75.3%
BIT-G SELL 21k	\$348,005	99.2%
BIT-ISP BUY 21k	\$32,535	100.0%
BIT-LUX SELL 4k	\$178,883	100.0%
BIT-PC SELL 0k	\$413	100.0%
BIT-PLT BUY 1k	\$2,231	27.7%
BIT-SFER SELL 3k	\$78,816	100.0%
BIT-SPM BUY 6k	\$497,480	100.0%

fills	ordersize	Filled Size	participation	Filled Value	execvaluecum	Diff to Venue Price %	Diff to Best Venue Price %
84	1,250,000	414,332	217.81%	16,900,000	0.00	0.02%	0.04%

Clicking on a notification highlights the item in the workbook that triggered the alert.

The screenshot shows the Altabox interface with the same notification in the Alerts panel. The notification is for 'Sum(fills) => 100' and is highlighted. The main workspace shows an Order Map and Client Order Details for Order EU-BNP BUY 1250k [O12814].

Order Name	Total Order \$	% Filled
BIT-A2A BUY 4k	\$2,039	92.9%
BIT-AGL SELL 5k	\$49,757	80.7%
BIT-AZM SELL 4k	\$57,630	100.0%
BIT-BP SELL 4k	\$6,099	89.6%
BIT-BPE SELL 0k	\$543	100.0%
BIT-CPR SELL 0k	\$1,378	100.0%
BIT-CPR SELL 6k	\$48,341	100.0%
BIT-EGPW SELL ...	\$12,118	100.0%
BIT-ENEL SELL ...	\$211,712	97.3%
BIT-EXO BUY 0k	\$16,025	100.0%
BIT-EXO BUY 4k	\$109,573	100.0%
BIT-F BUY 9k	\$39,009	39.3%
BIT-FI SELL 8k	\$87,340	75.3%
BIT-G SELL 21k	\$348,012	99.2%
BIT-ISP BUY 21k	\$32,535	100.0%
BIT-LUX SELL 4k	\$178,883	100.0%
BIT-PC SELL 0k	\$413	100.0%
BIT-PLT BUY 1k	\$2,231	47.4%
BIT-SFER SELL 3k	\$78,816	100.0%
BIT-SPM BUY 6k	\$497,480	100.0%

fills	ordersize	Filled Size	participation	Filled Value	execvaluecum	Diff to Venue Price %	Diff to Best Venue Price %
84	1,250,000	414,332	217.81%	16,900,000	0.00	0.02%	0.04%

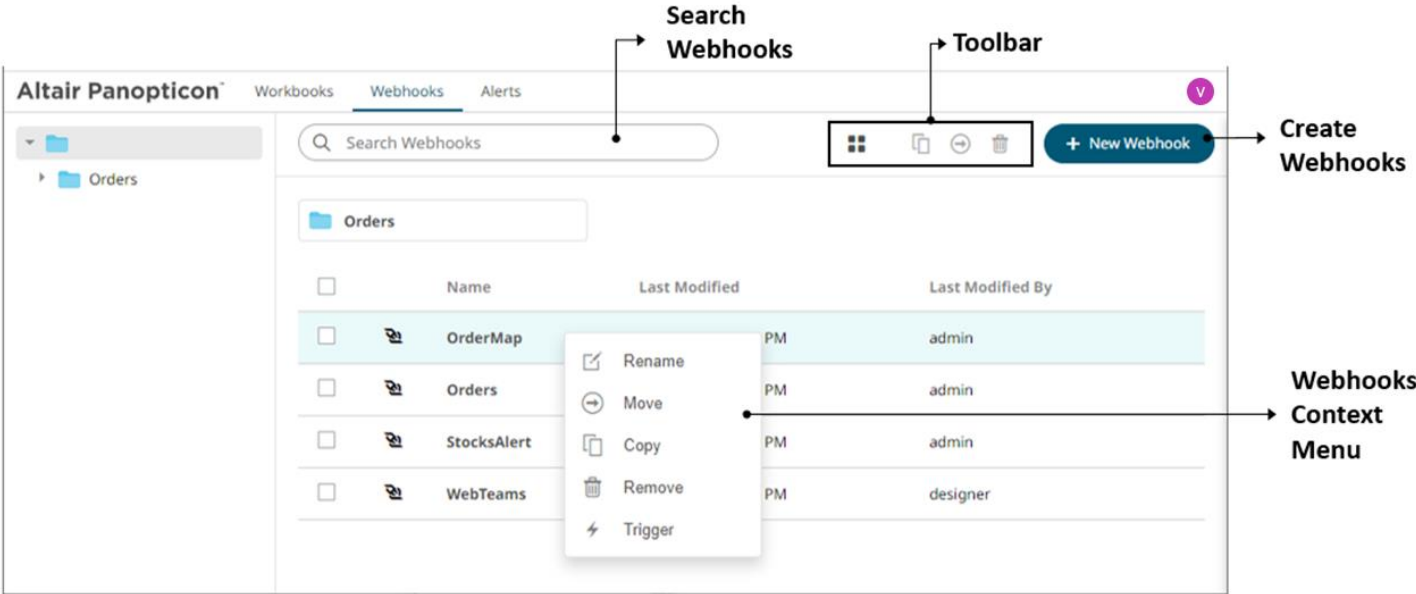
[3] WEBHOOKS

A webhook is a special URL that makes it possible to send a message from other systems into the system that issued the webhook. Webhook URLs should be treated with care and not shared publicly, since anyone with knowledge about the webhook URL will be able to use it.

Collaboration platforms such as Microsoft Teams, Slack, and many others, all have support for creating incoming webhooks. In Panopticon, outgoing webhooks can be added (based on incoming webhook URLs from other systems) and used as a channel for sending messages about triggered alerts, like how such messages can also be sent by email. Webhooks added to Panopticon are stored in the server folder structure and are subject to the same permissions model as workbooks.

An outgoing webhook in Panopticon can be used as the message channel for multiple different alerts in multiple different workbooks, due to the parameterization of the webhook request body. The exact structure and content that you should create in the request body of a webhook will be specified in the documentation of the system that issued the webhook.


NOTE Do not expect that the example [request body](#) shown below, will work as is.

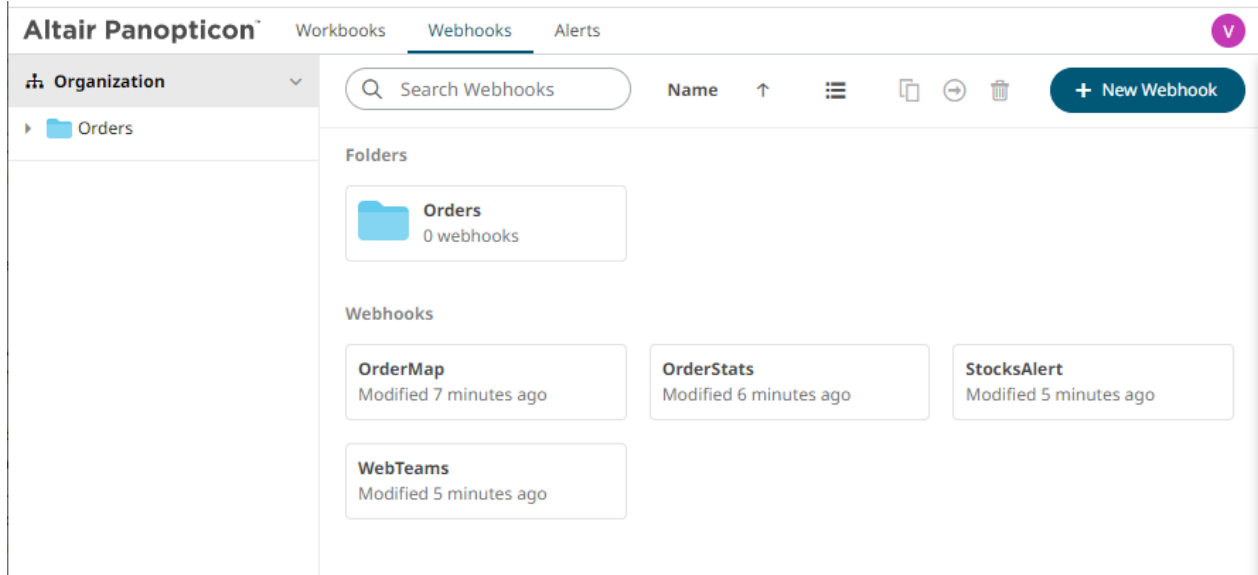


Property	Description
Search Webhooks	Entering text will filter the webhooks.
Toolbar	Allows copying, moving, and removing of webhooks. Also, to display the webhooks list either on List View or Grid View .
Create Webhooks	Allows creating new webhooks.
Webhooks Context Menu	Allows renaming , moving , copying , deleting , and enabling of the trigger of webhooks.


Folders and Webhooks Display View

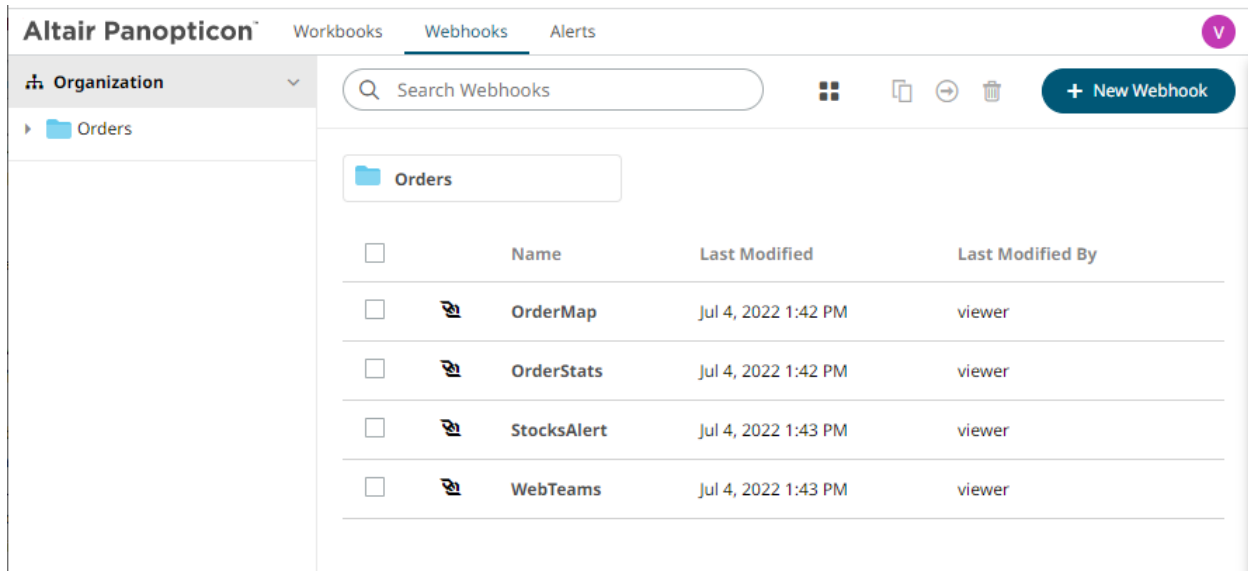
Webhooks can be displayed either on a *List* or *Grid View*.

On the *Toolbar*, click **Grid View** . The folders and webhooks are displayed as thumbnails.







The screenshot shows the Altair Panopticon interface with the 'Webhooks' tab selected. The left sidebar shows the 'Organization' menu with 'Orders' expanded. The main content area is titled 'Webhooks' and displays a 'Grid View' of folders and webhooks. The 'Folders' section shows a single folder named 'Orders' with '0 webhooks'. The 'Webhooks' section displays four webhooks as thumbnails: 'OrderMap' (Modified 7 minutes ago), 'OrderStats' (Modified 6 minutes ago), 'StocksAlert' (Modified 5 minutes ago), and 'WebTeams' (Modified 5 minutes ago). The top toolbar includes a search bar, a 'Name' column header, and icons for list view, grid view, copy, refresh, and delete, along with a '+ New Webhook' button.

Or click **List View** , the folders and webhooks are displayed in a standard listing.



The screenshot shows the Altair Panopticon interface with the 'Webhooks' tab selected. The left sidebar shows the 'Organization' menu with 'Orders' expanded. The main content area is titled 'Webhooks' and displays a 'List View' of folders and webhooks. The 'Folders' section shows a single folder named 'Orders'. Below it is a table listing the webhooks:

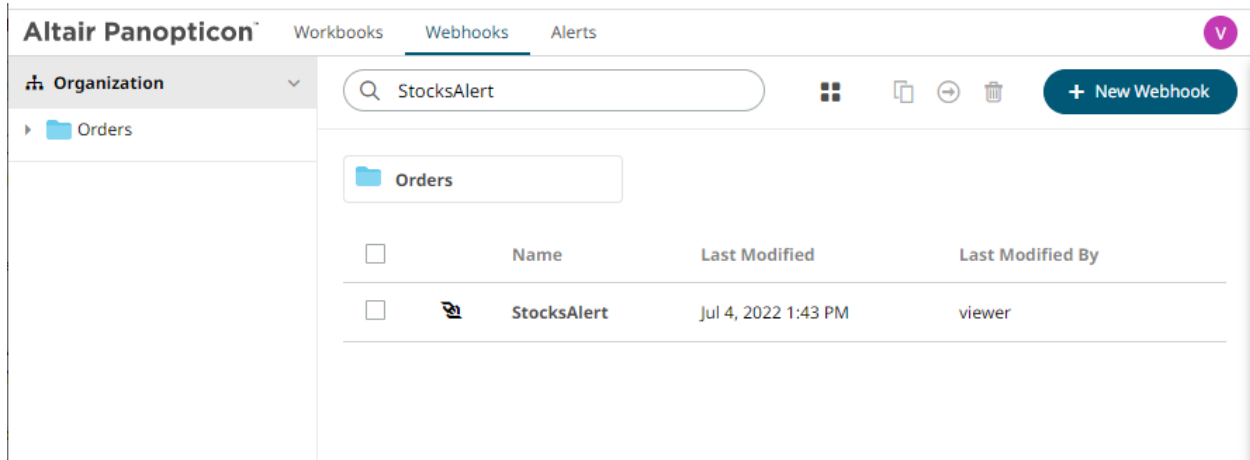
<input type="checkbox"/>	Name	Last Modified	Last Modified By
<input type="checkbox"/>	 OrderMap	Jul 4, 2022 1:42 PM	viewer
<input type="checkbox"/>	 OrderStats	Jul 4, 2022 1:42 PM	viewer
<input type="checkbox"/>	 StocksAlert	Jul 4, 2022 1:43 PM	viewer
<input type="checkbox"/>	 WebTeams	Jul 4, 2022 1:43 PM	viewer

The top toolbar includes a search bar, a grid view icon, icons for copy, refresh, and delete, and a '+ New Webhook' button.

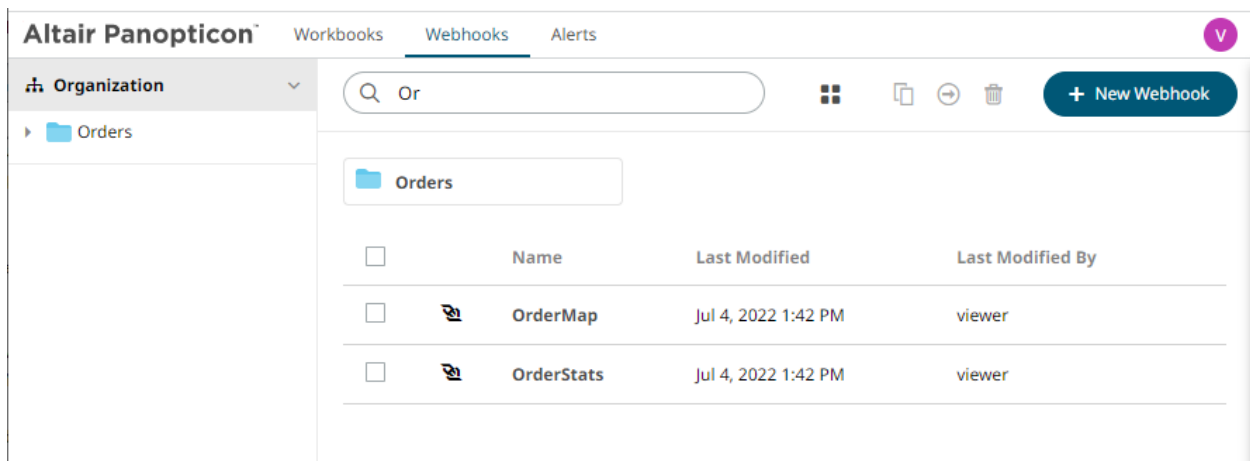
On either display view style, clicking on a webhooks title or thumbnail displays the *Webhooks* page.

Searching for Webhooks

On the *Webhooks* tab, to search for a particular webhook, enter it in the *Search Webhooks* box.



You can also enter one or more characters into the *Search Webhooks* box then click **Enter**. The suggested list of webhooks that matched the entries will be displayed.



Click on a webhooks to open and display.


To clear the filter, delete the text entry in the *Search Webhooks* box.

CREATING WEBHOOKS

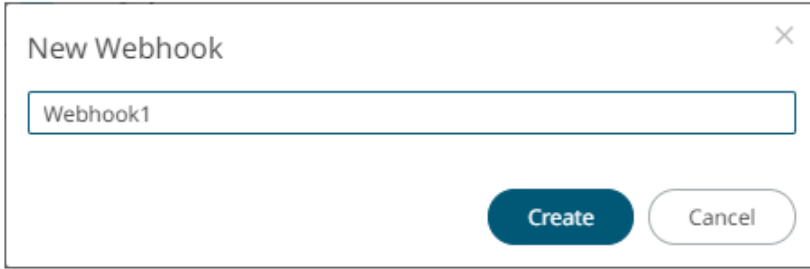
This section discusses the instructions and guidelines in creating webhooks.

Steps:

1. On the **Webhooks** tab, click on a folder then
The *New Webhook* dialog displays.




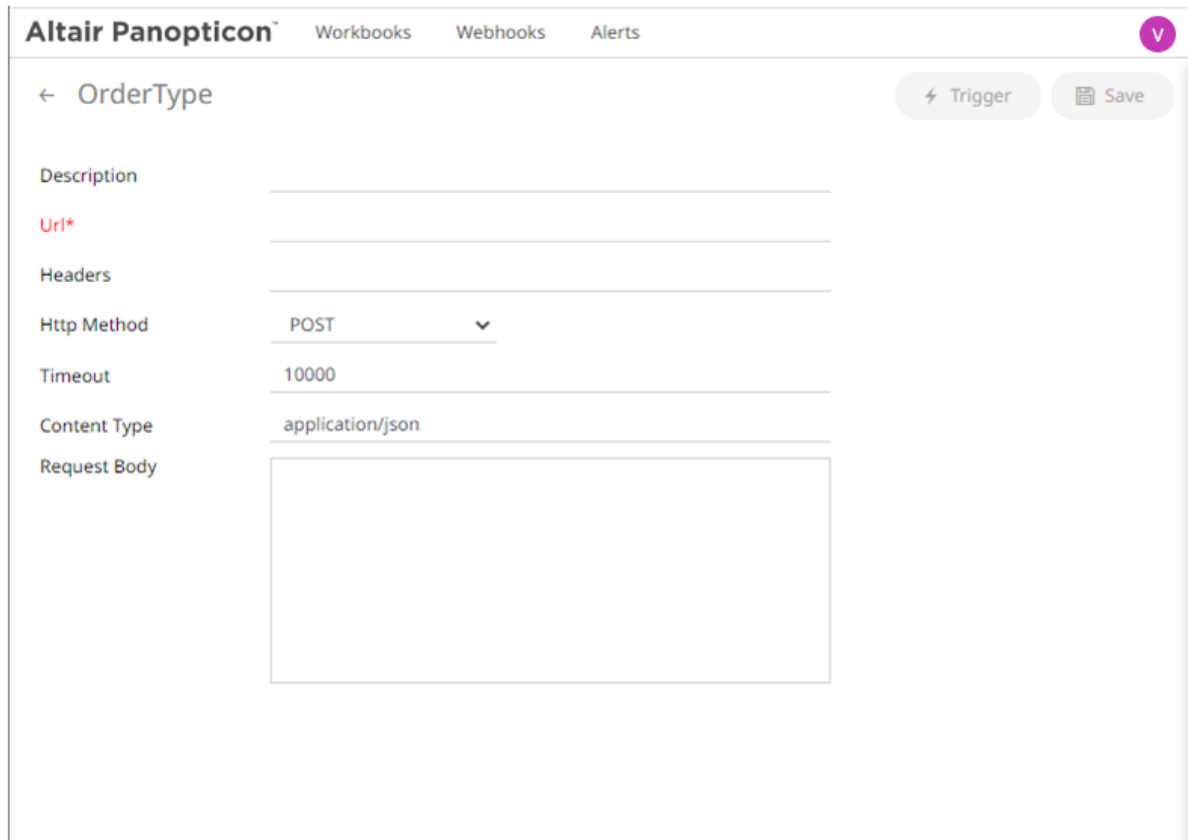
+ New Webhook



A dialog box titled "New Webhook" with a close button (X) in the top right corner. It contains a text input field with the text "Webhook1" and two buttons at the bottom: "Create" (a dark blue button) and "Cancel" (a light blue button).



2. Enter the name of the webhook then click  .
The new webhook is displayed on the *Webhook* page.






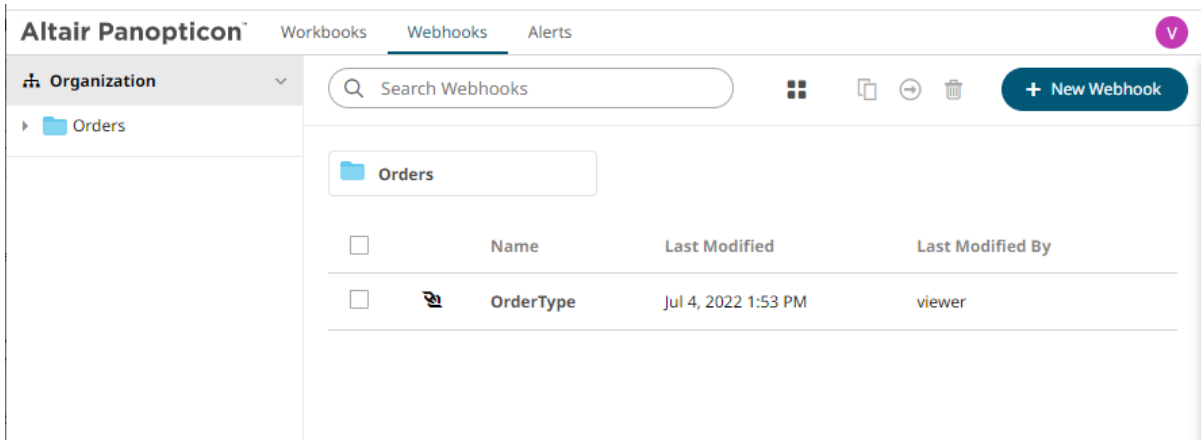
The screenshot shows the "Altair Panopticon" interface. At the top, there are navigation tabs for "Workbooks", "Webhooks", and "Alerts", along with a user profile icon. The main content area is titled "OrderType" and contains a form for configuring a webhook. The form fields are: "Description" (text input), "Url*" (text input, marked as required), "Headers" (text input), "Http Method" (dropdown menu set to "POST"), "Timeout" (text input set to "10000"), "Content Type" (text input set to "application/json"), and "Request Body" (a large text area). On the right side of the form, there are two buttons: "Trigger" (with a lightning bolt icon) and "Save" (with a document icon).

3. Enter or select the following webhook properties:

Property	Description
Description	Description of the webhook.
URL	URL of the webhook. This property is required.
Headers	A comma separated list of name=value pairs representing HTTP headers.
HTTP Method	Select the appropriate HTTP method for the request from the following options:

	<div style="border: 1px solid #ccc; padding: 5px; width: fit-content;"> <div style="background-color: #007bff; color: white; padding: 2px 5px; display: inline-block;">GET</div> <ul style="list-style-type: none"> <li style="background-color: #007bff; color: white; padding: 2px 5px; display: inline-block;">GET <li style="padding: 2px 5px; display: inline-block;">POST <li style="padding: 2px 5px; display: inline-block;">PUT <li style="padding: 2px 5px; display: inline-block;">DELETE </div> <ul style="list-style-type: none"> • GET – To retrieve data. • POST – To add new data. • PUT – To replace existing data. • DELETE – To remove existing data.
Timeout	Timeout (in ms) for reading a response from the URL.
Content Type	The content type of the request body. Default is application/json .
Request Body	<p>The request body to be supplied to the HTTP call.</p> <p>For example:</p> <pre> { 'Alert title': '{_alert_title}', 'Alert dashboard URL': '{_alert_dashboard_url}', 'Alert description': '{_alert_description}', 'Alert reason': '{_alert_reason}', 'Triggering items': '{_alert_triggering_items}', 'Timestamp': '{_current_time}', 'Folder': '{_workbook_folder}', 'Workbook': '{_workbook_name}', 'Dashboard': '{_dashboard_name}' } </pre>

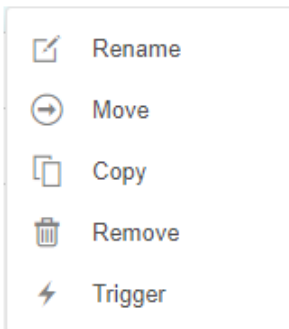
4. Click  to save the new webhook.
5. Click  to trigger the webhook. Any parameter in the request body will be replaced by its value when triggering the webhook request.
For example:
`{_current_time} - 2021-07-01T12:34:56Z`
6. Click  to go back to the *Folders and Webhooks* list. The new webhook is added on the list.



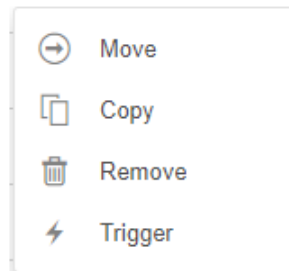
WEBHOOKS TOOLBAR AND CONTEXT MENU

Moving, copying, and removing webhooks can either be done using:

- ☐ Context menu



Webhook Context Menu



Webhooks Folder Context Menu

- ☐ Toolbar



List View



Grid View

The *Webhooks* toolbar options include:

Toolbar Option	Description
Sort By / Sort Order	Allows sorting webhooks by <i>Name</i> , <i>Last Modified</i> , or <i>Last Modified By</i> .
Display View	Display webhooks either by <i>List View</i> or <i>Grid View</i> .
Copy	Copy webhooks to another folder or subfolder where the user has permission.
Move	Move webhooks to another folder or subfolder where the user has permission.

Remove	Remove webhooks.
------------------------	------------------

The *Context Menu* options include:

Context Menu Option	Description
Rename	Rename the webhook.
Move	Move webhooks to another folder or subfolder where the user has permission.
Copy	Copy webhooks to another folder or subfolder where the user has permission.
Remove	Remove webhooks.
Trigger	Trigger the webhook.

Sorting Webhooks

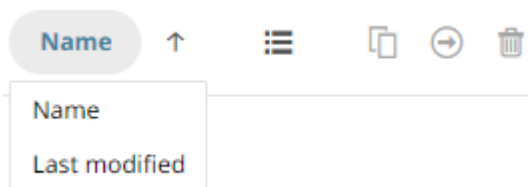
Sorting webhooks can be done by **Name**, **Last Modified**, or **Last Modified By**.

Steps:

On the *Webhooks* tab, either:

- ❑ click the **Sort By** option on the *Toolbar* of the *Grid View*.

By default, the sorting is by **Name**.

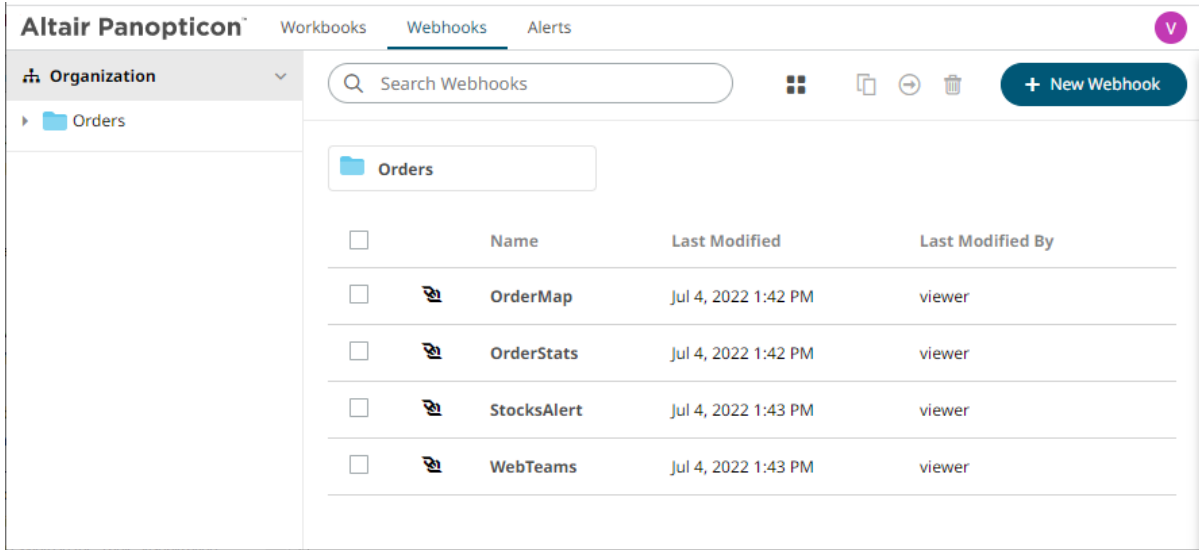


- Name
- Last Modified



Then click the *Sort Order*:

- Ascending
- Descending

- ❑ click on the **Name**, **Last Modified**, or **Last Modified By** column header of the *List View*.



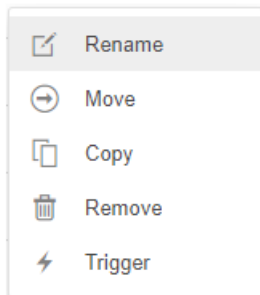
Then click the *Sort Order*:

-  Ascending
-  Descending

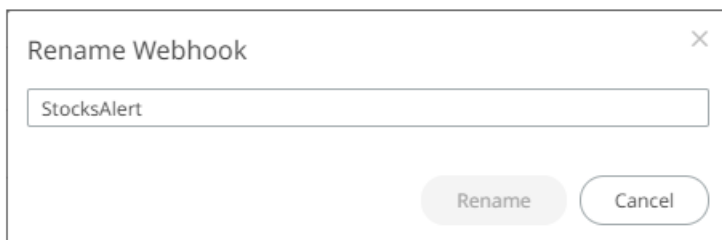
Renaming a Webhook

Steps:

1. Right-click on a webhook then select **Rename** on the context menu.



The *Rename Webhook* dialog displays.




2. Enter a new name then click  .

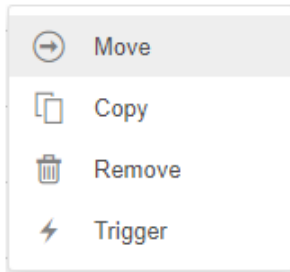
Moving Webhooks

Users with a Viewer role are allowed to move webhooks to another folder or subfolder where they have permission.

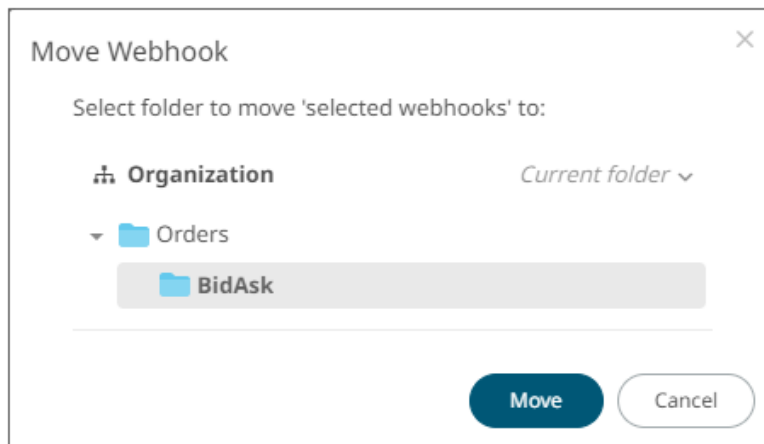
Steps:

1. Check the box of one or several webhooks either on the *Grid View* or *List View*.
2. Then select either:

- the **Move**  icon on the toolbar
- **Move** on the content menu

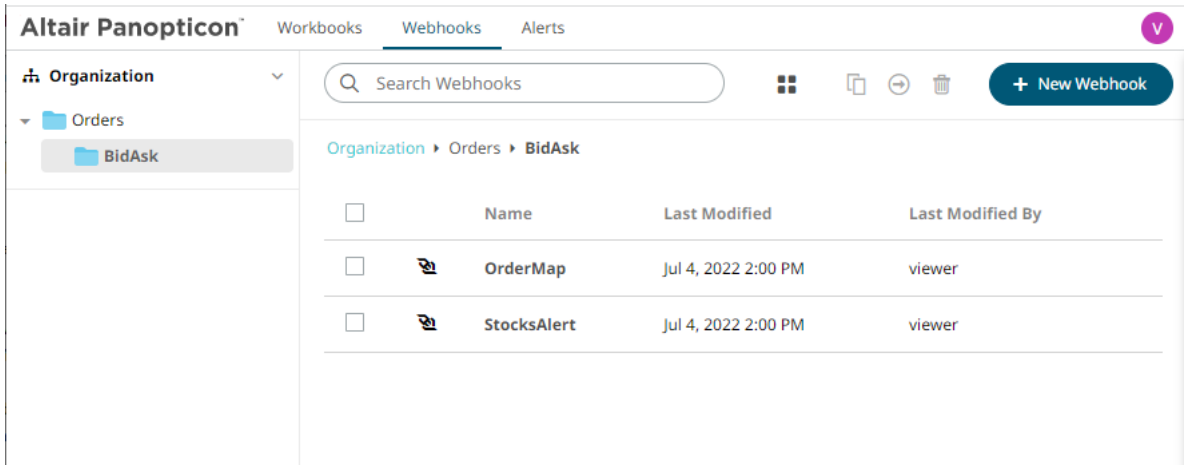


The *Move Webhook* dialog displays with the folder or subfolders that the user is allowed to move the webhooks. Select the folder or subfolder.



3. Click  .

The webhooks are moved and displayed on the selected folder.




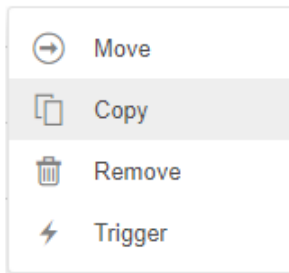
Copying Webhooks

Users with a Viewer role are allowed to copy webhooks to another folder or subfolder where they have permission.

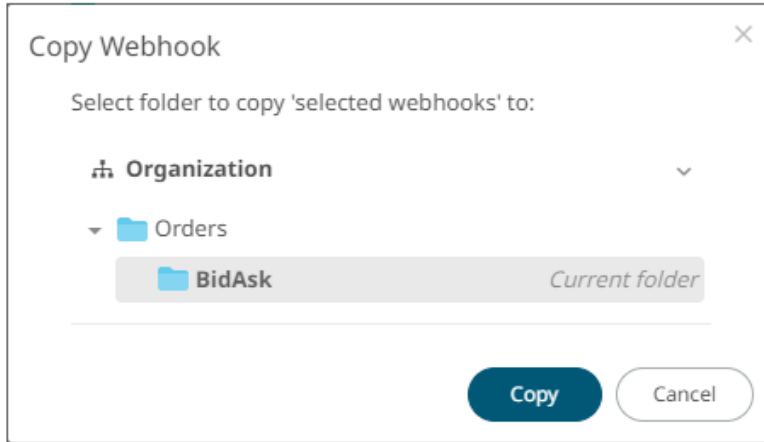
Steps:

1. Check the box of one or several webhooks either on *Grid View* or *List View*.
2. Then select either:

- the **Copy**  icon on the toolbar
- **Copy** on the content menu

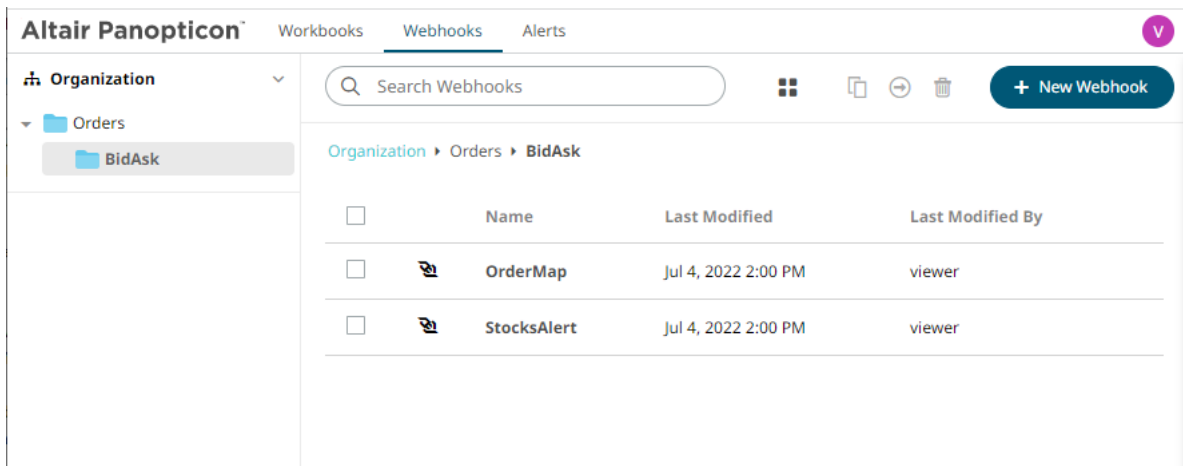


The *Copy Webhook* dialog displays with the folder or subfolders the user is allowed to copy the webhooks to. Select the folder or subfolder.



3. Click  .


The webhooks are copied and displayed on the selected folder.

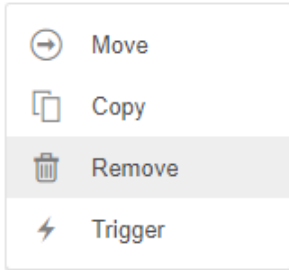


Deleting Webhooks

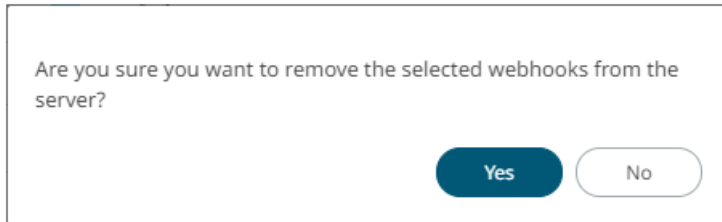
Users with a Viewer role can remove webhooks.

Steps:

1. Check the box of one or several webhooks either on *Grid View* or *List View*.
2. Then select either:
 - the **Remove**  icon on the toolbar
 - **Remove** on the content menu



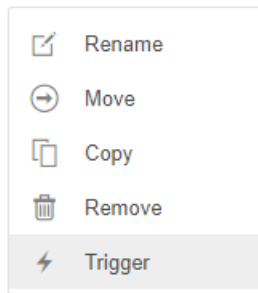
A notification message displays.



3. Click  to remove.

Triggering Webhooks

To trigger a webhook, right-click on it and select **Trigger** on the context menu.




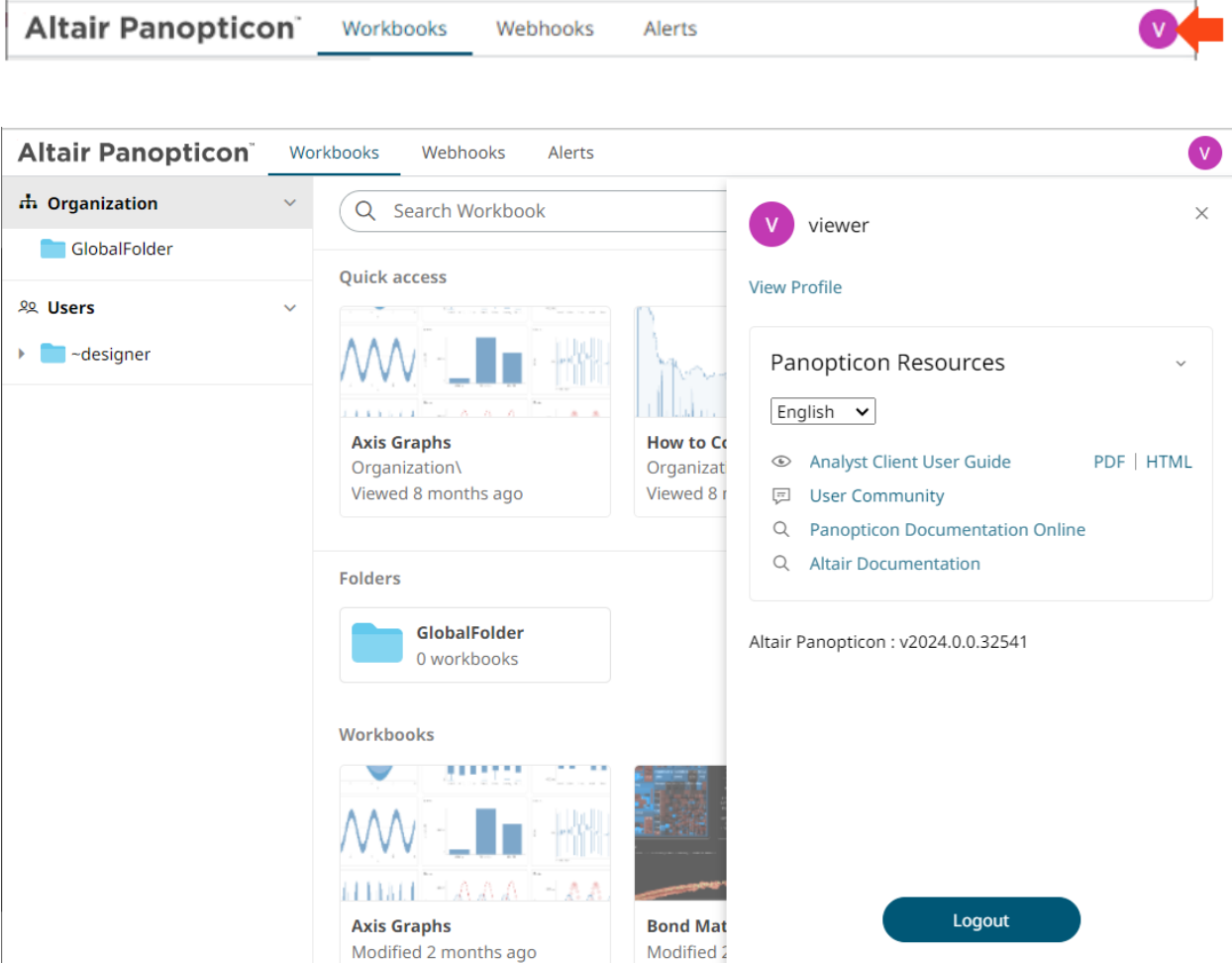
Any parameter in the request body will be replaced by its value when triggering the webhook request.

For example:

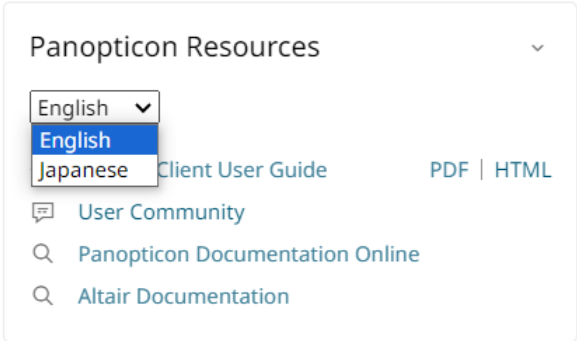
```
{_current_time} - 2021-07-01T12:34:56Z
```

[4] PANOPTICON RESOURCES

Clicking  on the top right section of the toolbar displays the other Panopticon online resources that users with a Viewer role can access.



Select the *Language* on the drop-down list: **English** or **Japanese**.



Resource	Description
Analyst Client User Guide	Panopticon Real Time documentation for users with a Viewer role which consists of: <ul style="list-style-type: none"> • viewing and analyzing of workbooks • creating, monitoring, and deleting of alerts Available upon installation.
User Community	Link to the Panopticon User Community page.
Data Analytics Documentation	Link to the Altair Data Analytics Documentation page.
Altair Documentation	Link to product documentation in the Altair Community page.

04.2024

ABOUT PANOPTICON

For more information on Panopticon and other resources, go to <https://www.altair.com/panopticon>.