



Working with Parameters

Stratum.Viewer 6

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Getting Started

Access to Parameters

Your user profile level controls what you can do with parameters.

User Profile Level	Add	Edit	Delete	Run Views with Parameters
Casual				x
Advanced	x	x	x	x
View Administrator	x	x	x	x
Security Administrator	x	x	x	x

Introduction to Parameters

Attaching parameters to levels in a view gives users the power to choose which members will display in the view prior to its execution. When users run a view defined with parameters, the [View Prompt window](#) will display and prompt users to select values for the impacted levels. You also can set up views such that users are prompted to select the presentation format before the view runs. Setting that property to Yes will display a Presentation section in the View Prompt window. Users can choose to run the view in the traditional grid format or to have view results open in an MS Excel file.

A single parameter group with up to four types of parameters each can be defined for each level in the view. The types of parameters available are:

- **Select Members** - users will click a filter icon, which opens the [Select](#) or [Advanced Select Members](#) window. They can search for and select one or more members.
- **User List** - users will click a filter icon, which opens the Select User List Filter window. They can choose a user list that determines the members to display for the level.
- **Drop Down** - users will select a member from a drop-down list.
- **Expression** - users will click a filter icon to open the Expression window. They can set up an expression to determine the members that will display for a level.

You have the flexibility to make parameters required or optional and to set up a pre-defined value for some parameters that users can either accept or override by making a different selection. Stratum.Viewer role security is applied when users select values for a parameter.

The following view is shown in the definition stage. The user who is setting up the view has defined parameter groups for the RepBroker Type and Product Category levels. The first group is required. This means the user will need to select a parameter value for the RepBroker Type level before the view will be executed. The user also set the Presentation properties of Type to Viewer and Prompt to Yes. The user who runs the view can either leave the view set to run in the Viewer mode, which is the grid format, or can change the Presentation option to Excel to see results in an MS Excel file.

The screenshot displays a software interface for defining a view. The main window title is "View Name: Sales Cost Trends Last 3 Yrs". A toolbar at the top contains icons for file operations and help. A "Run View" button is located in the center of the main workspace. On the right side, there are two panes:

- View Explorer:** Shows a tree structure of the view's components. The "Parameter Groups" folder is expanded, and the "RepBroker Type Group" is selected and highlighted with a red circle. Below it, the "Product Category Group" is also expanded, showing its sub-parameters: "RepDropDownParameter", "ProdCatUserListParameter", and "ProdCatMemberParameter". The "Grid" folder is also expanded, showing "Rows" (with sub-items "Product Category" and "Product Family") and "Columns" (with sub-item "RepBroker Type"). A "View Filter" folder is at the bottom.
- Properties - RepBroker Type Group:** A table showing the configuration for the selected parameter group. The "Required" property is set to "Yes" and is circled in red.

Properties - RepBroker Type Group	
Name	RepBroker Type Group
Dimension	RepBroker
Hierarchy	RepBroker Type <input type="checkbox"/>
Level	RepBroker Type <input type="checkbox"/>
Required	Yes <input checked="" type="checkbox"/>

Here is the View Prompt window that displays when a user runs the view.

The screenshot shows a dialog box titled "VIEW PROMPT" with a close button (X) in the top right corner. The main title of the dialog is "Sales Cost Trends Last 3 Yrs - Parameters".

Under the "Parameters" section, there are two groups of options:

- RepBroker Type Group:** A radio button is selected next to "Choose a RepBroker Type:", followed by a text input field with a dropdown arrow.
- Product Category Group:** A radio button is selected next to "Choose Product Category members:", followed by a text input field with a red "Y" icon to its right. Below this, another radio button is next to "Apply a User List Filter to Level:", followed by a greyed-out text input field with a red "Y" icon to its right.

At the bottom of the dialog, there is a "Presentation" section with a "Type:" label and a dropdown menu currently showing "Viewer".

At the bottom right of the dialog, there are two buttons: "OK" and "Cancel".

The user chooses the Direct member for the first parameter group, which is required, and skips choosing values for the other parameter group. The user leaves the Presentation type set to Viewer.

VIEW PROMPT [X]

Sales Cost Trends Last 3 Yrs - Parameters

RepBroker Type Group

Choose a RepBroker Type: [v]

Product Category Group

Choose Product Category members: [Y]

Apply a User List Filter to Level: [Y]

Presentation

Type: [v]

[OK] [Cancel]

Here is the executed view, with the RepBroker Type level filtered by the selected member. Results show in the grid format. If the user had selected Excel in the Presentation section of the View Prompt window, then view results would have opened as an MS Excel worksheet.

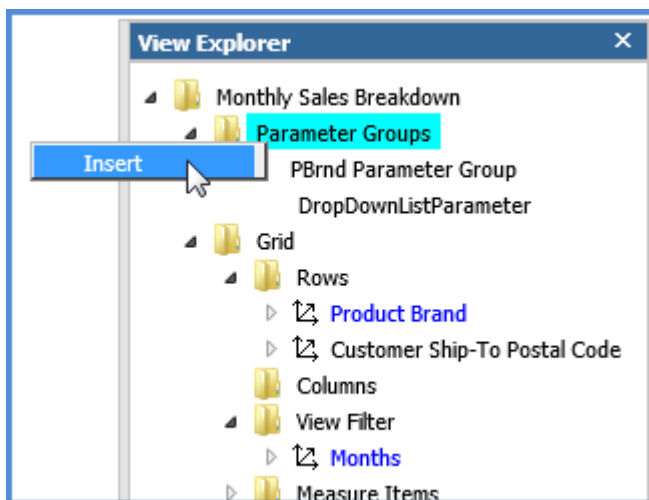
		RepBroker Type >>				Direct	Grand Total
Product Category	Product Family	AS Sales Units Q1 2011 to Q4 2014	AS Freight Cost Q1 2011 to Q4 2014	AS Ext Handling Cost Q1 2011 to Q4 2014	Daily Sales Units Q1 2011 to Q4 2014	AS Sa Unit Q1 2011 to Q4 2014	
Fresh Vegetables	Tender Vegetables	13,140,522	\$8,495,075	\$13,270,731	371,298	13,140,522	
	Hardy Vegetables	10,072,068	\$5,505,768	\$5,523,893	246,206	10,072,068	
	Fresh Vegetables Total	23,212,590	\$14,000,843	\$18,794,624	617,504	23,212,590	
Canned Fruit	Fruit Fillings	24,568,695	\$45,188,094	\$16,610,523	571,996	24,568,695	
	Applesauce	16,896,653	\$32,577,642	\$13,094,409	347,871	16,896,653	
	Specialty Canned Fruit	15,183,378	\$35,583,255	\$9,082,694	314,629	15,183,378	
	Fruit Cocktail	24,509,294	\$51,857,318	\$17,293,682	431,029	24,509,294	
	Peaches	30,557,762	\$65,459,221	\$18,964,542	669,705	30,557,762	
	Pears	15,649,144	\$34,131,554	\$10,753,212	291,876	15,649,144	
	Pineapple	21,407,661	\$37,865,705	\$13,807,972	359,621	21,407,661	
	Canned Fruit Total	148,772,588	\$302,662,788	\$99,607,034	2,986,726	148,772,588	
Pork	Fresh Pork	6,848,293	\$5,621,945	\$7,726,962	202,583	6,848,293	
	Pork Total	6,848,293	\$5,621,945	\$7,726,962	202,583	6,848,293	
Beef	Fresh Beef	6,680,442	\$5,043,259	\$6,052,966	165,394	6,680,442	
	Beef Total	6,680,442	\$5,043,259	\$6,052,966	165,394	6,680,442	

Quick Start - Adding Parameters

Here are the key steps for adding parameters. You need to set up a parameter group and then add parameters to it.

1

Right-click the Parameter Groups folder in view explorer and click Insert.



2

Set up the parameter group [properties](#).

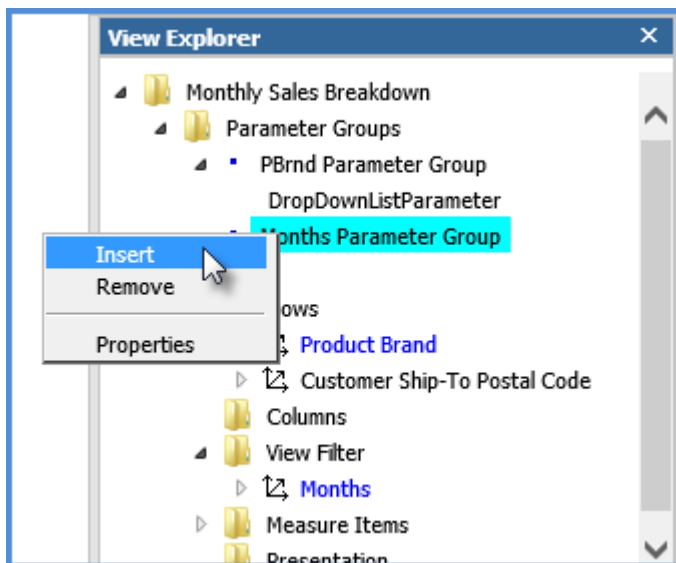
Properties to set up include specifying whether users will be required to use a parameter from this group when they run the view and are presented with the [View Prompt window](#).



Properties - Months Parameter Group	
Name	Months Parameter Group
Dimension	Time
Hierarchy	Months
Level	Months
Required	No

3

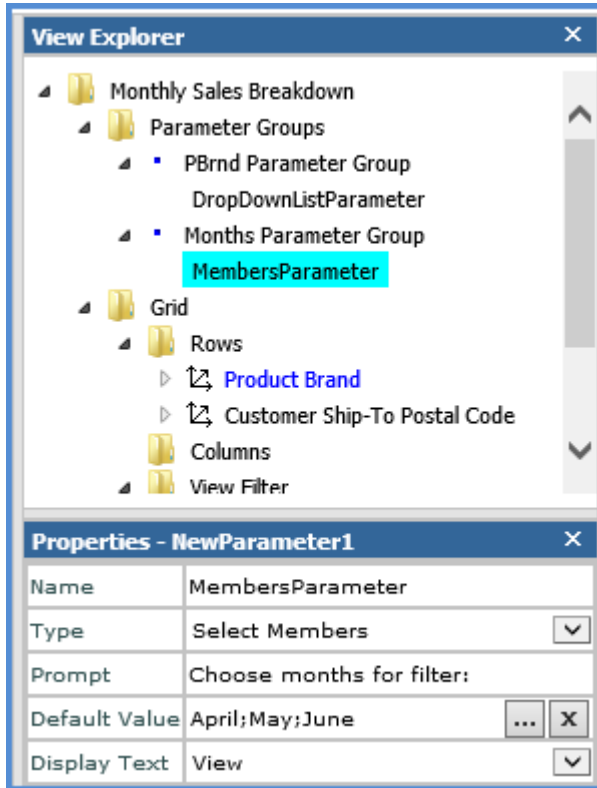
Right-click the parameter group name, and select Insert.



4

Set up the [properties](#) for the parameter.

Properties to set up include the parameter type (members, user list, drop down, expression), prompt text, and optionally a default parameter value.



5


Repeat Steps 3 and 4 to add additional types of parameters to the group.

Tasks

Add a Parameter

1. If you haven't done so already, add a parameter group to which the parameter will belong.
2. Right-click the parameter group, and click Insert.
3. Enter a name for the parameter in the [properties window](#) that displays.
4. Select a parameter type, either Select Members, User List, Drop Down, or Expression.
5. Enter a text prompt that instructs the user what to do with the parameter. For example, you could enter text such as *Choose a user list:* for a user list parameter.
6. {Optional} Customize the Display Text property for the parameter. See [How Parameter Display Text Interacts with Other Settings](#) for more details and examples.
 - **View** – This is the default Display Text selection for all parameter types. Setting this to view means that you want the applicable drop-down list or Select/Advanced Select Members windows for the parameter to display based on the display text setting for the associated level in the view.
 - **Value or Attribute Relationship** – Setting the Display Text to a specific attribute (either value or attribute relationship) means that you want the applicable drop-down list or Select/Advanced Select Member windows for the parameter to display using the selected attribute.

Note: Administrative settings in the Select Members Options window can override the parameter Display Text property.

7. Click the Browse button  to specify a default value for the parameter. Use the filtering window that displays to choose a default member(s), user list, or expression.

Note: Specifying a default parameter is optional in most cases. It is required if you did not enter a prompt in Step 5.

8. {Optional} Repeat Steps 2 to 7 to add other types of parameters to the group.

Add a Parameter Group

1. Right-click the Parameter Groups folder in view explorer, and select Insert.
2. Enter a name for the group in the [properties window](#) that displays.
3. Select the hierarchy and then level for the group.
4. Use the Required property to determine if users will be required to specify a parameter for the group when they run the view and are presented with the View Prompt window.
 - Yes will require a parameter to be specified.
 - No will allow users to bypass specifying a parameter for the group.
5. You can now add one or more parameters to the group. See [Add a Parameter](#).

Delete a Parameter Group or Parameter

1. In [view explorer](#), right-click the parameter group or parameter.
2. Select the Remove option.

Edit a Parameter

1. In [view explorer](#), navigate to the parameter group for the parameter.
2. Right-click the parameter, and select Properties.
3. Change properties such as the name, prompt, or default value in the [properties window](#).

Note: If you need to edit the order of parameters within a group, use drag and drop in view explorer.

Edit a Parameter Group

1. Right-click the parameter group in [view explorer](#), and select Properties.
2. Change properties in the [properties window](#) that displays.



Note: If you need to add or edit parameters within a group, see [Edit a Parameter](#) or [Edit the Order of Parameter Groups or Parameters](#).

Edit the Order of Parameter Groups or Parameters

Use drag and drop to edit the order of parameter groups and order of parameters within each group. This can be done in [view explorer](#). Dropping one group onto another will position the dropped grouped after that other group. Dropping a parameter on another will position the dropped parameter after that other parameter.

Run a View with Parameters

A [View Prompt window](#) displays when you run a view that has parameters:

1. Select a parameter for a parameter group.
2. Choose a value(s) using the provided drop-down list or filter icon.
 - There will be a drop-down list for Drop Down parameters. Select a member.
 - There will be a filter icon for other parameter types:
 - **Select Members** - icon opens the [Select](#) or [Advanced Select Members window](#). Search for and select one or more members then click OK.
 - **User List** - icon opens the Select User List Filter window. Use the search or filter  tools as aids in finding a list. Optionally click Show Details  after selecting a list to see more information about it before applying it as a filter. Click OK to apply the selected list as a filter.
 - **Expression** - icon opens the Expression window. Set up an expression and click OK.
3. The selected value(s) will display in the parameter field.
4. Repeat Steps 1 and 2 for any additional parameters groups that display in the window.
5. If there is a Presentation section in the View Prompt window, select the type of format to run view results in -- either Viewer or Excel.
6. Click OK.

OR

1. If default values already display in a parameter's field, you can run the view with the defaults by selecting that parameter for its group and clicking OK.

OR

1. If parameters are optional, you can click OK without specifying any parameter values. If a parameter in any parameter group is required, the View Prompt window will remain open and you will be prompted to choose a parameter.

Advanced Select Members Window

1

Search For: apple Search By: UPC Long Description Contains Find Stop

UPC Long Description	UPC ABC Classification	UPC
Apple Filling 106oz BR*	B	5108
Apple Filling 106oz PL*	A	5108
Apple Filling 12oz BR*	B	5108
Apple Filling 12oz PL*	A	5108
Apples Red Delicious	B	3160
Escalloped Apples 106 oz BR*	B	5110
Escalloped Apples 12 oz BR*	B	5110

1 - 7 of 7

2

UPC Long Description	UPC ABC Classification	UPC Co
Applesauce 106oz BR*	A	5512
Applesauce 106oz PL*	A	5512
Applesauce 12oz BR*	A	5512
Applesauce 12oz PL*	A	5512

3

4

Select Advanced Options OK Cancel Help

1

Use the search properties to specify the criteria and the parameters by which to search for members to be used in the member list. That list can be used as a level filter, to create a user list, or to help build an expression.

Note: The window also is used when administrators set up roles.

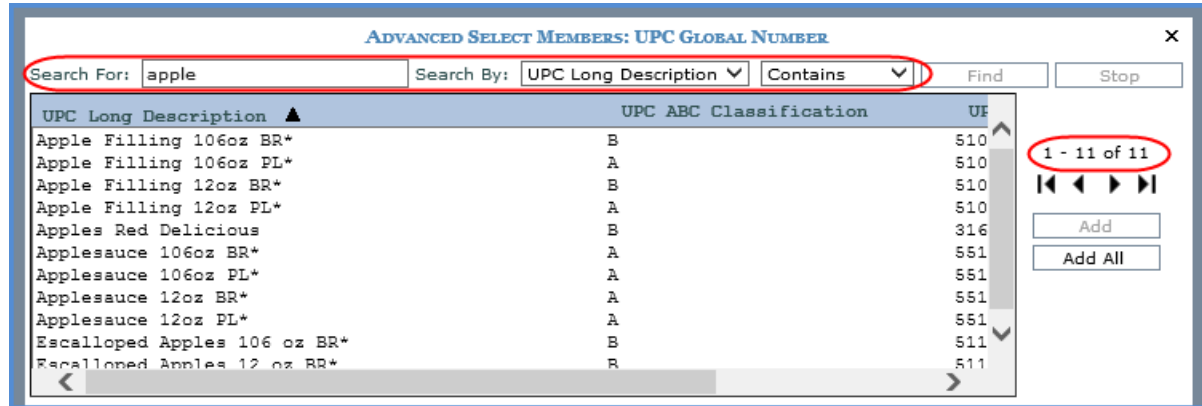
Search For: - Enter a value in the Search For field. Multiple searches can be entered by separating them with a semicolon. If the Search For field is left blank, the available list displays all members for the active level.

Search By: - Use this drop-down list to select the attribute relationship to perform the search on.

Contains, Does not contain, Starts With, Equal to, Not Equal to, Greater than, Less than - Select whether you want your search to contain, not contain, start with, be equal to, not equal to, greater than, or less than the value(s) specified in the search.

Find - Click this button to execute the search. The list of available members is refreshed based on the search.

In the following example, we searched for UPC long descriptions containing “apple” and 11 items were retrieved.



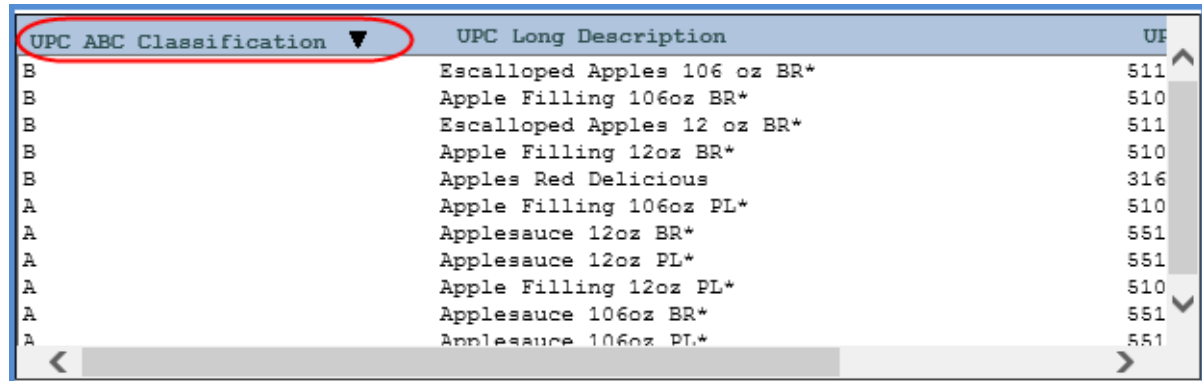
2

Available Selection list – The list area displays the names of the members returned by your search. Use this list to select the members to include in the member list.

Use one of the following methods to select the desired members from the available selection list in the top portion of the window and move them to the selected list displayed in the bottom portion of the window.

- Select the desired member(s) from the available selection list and click Add. You can use Ctrl+Click and Shift+Click when selecting more than one member.
- Double-click a member in the list.
- Click Add All to add all of the available members, from all pages, to the end of the selection list.

Columns in this area are sort and drag/drop enabled. In the following example, we clicked the UPC ABC Classification column and dragged it to the first position. We also clicked the Sort icon and changed the sort from ascending to descending.



3

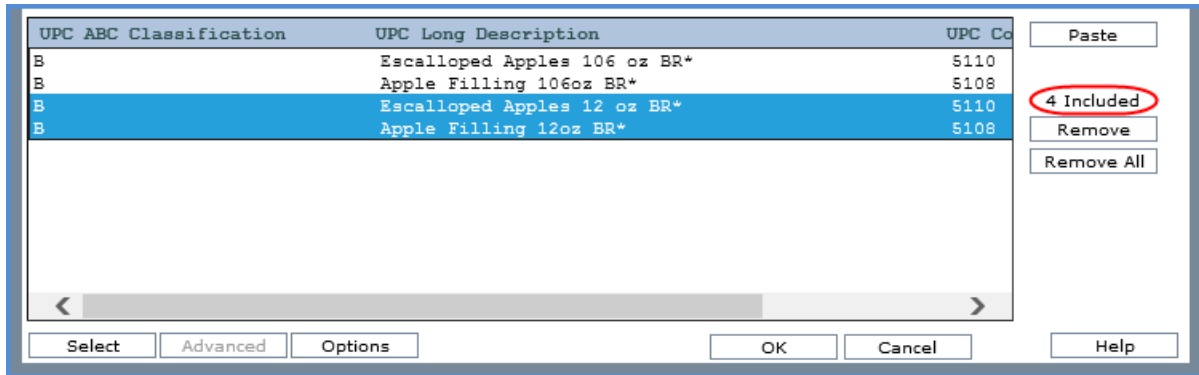
Selected list - displays the members selected for the member list. These members are not available for re-selection in the top portion of the window.

Use one of the following methods to remove members:

- Select the desired member(s) and click Remove. You can use Ctrl+Click and Shift+Click when selecting more than one member.
- All selected items are removed from the selected list. Removed items no longer display in the selected portion but are available for selection in the top portion of the window. When removed from the selected list, the item is added to the end of the available list section.
- Double-click a member in the list.

- Click Remove All to remove all of the members, from all pages of the selected list.

In the following example, there are four items in the filter and two have been selected with the intention of removing them. After the Remove button is clicked, the filter will contain only two items.



4

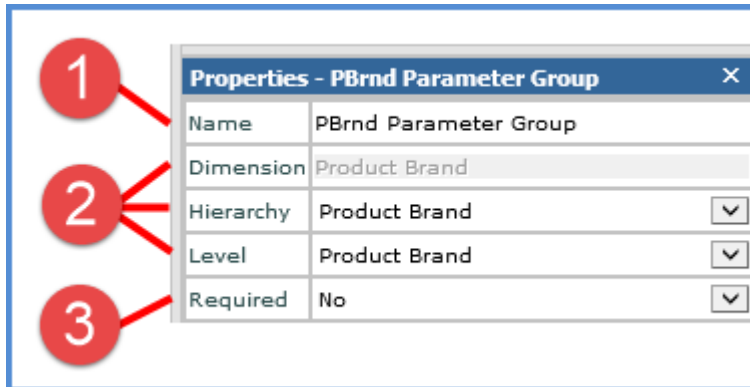
Select – Click to access the Select Members window. This button may not display depending on administrative settings for the level. Administrators determine which version(s) of the window are available by dimension.

Paste – Click to access the Paste Members window, which lets you copy a list of members into the member list that you are building.

Options – Use to change the paging control and display columns in this window.

Properties Windows for Parameter Groups and Parameters

Parameter Groups



1

Name – Use to customize the name of a parameter group. Each group requires a unique name. The name will display above the group in the [View Prompt window](#).

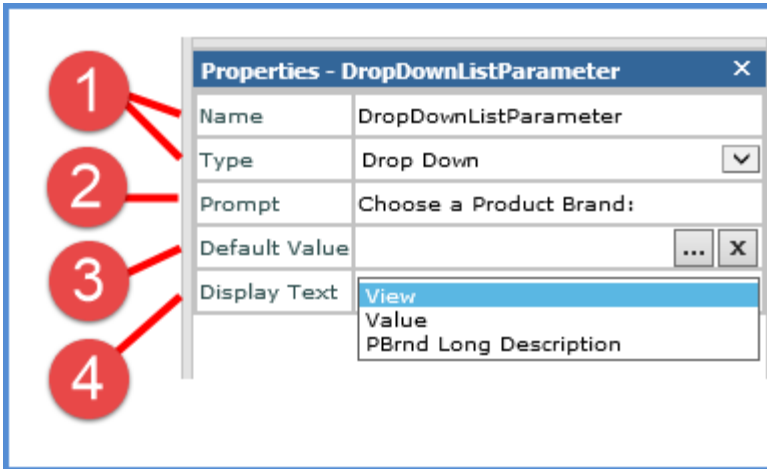
2


Dimension, Hierarchy, and Level - Dimension field is read-only and is updated as you make your Hierarchy selection. If a Hierarchy has more than one level, choose the level for the parameter group using the Level drop-down list.

3

Required - If you want users of the view to be required to specify parameter values for the group before they can run the view, leave Required set to Yes. Otherwise you can change it to No and users will be able run the view without specifying any parameter values for the group.

Parameters



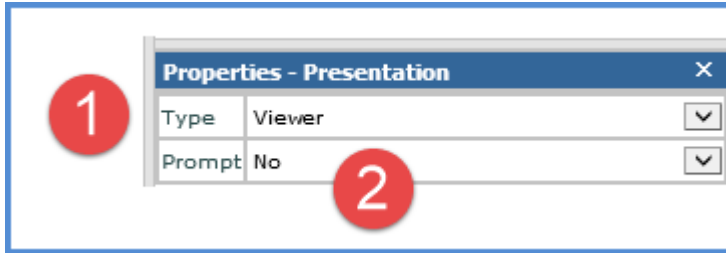
<p>1</p>	<p>Name – Use to customize the name of a parameter. Each parameter across all parameter groups for the view requires a unique name. Don't use any spaces in the name.</p> <p>Type - Select the type of parameter. You can create up to four parameters per parameter group, one of each type.</p> <ul style="list-style-type: none"> • Select Members - this type creates a filter icon in the View Prompt window. The user can click it to access the Select or Advanced Select Members window. They can search for and select multiple members as the parameter value. • Drop Down - this type creates a drop-down list in the View Prompt window. The user can select one member as the parameter value. • User List - this type creates a filter icon in the View Prompt window. The user can click it to access the Select User List Filter window and select a user list as the parameter value. • Expression - this type creates a filter icon in the View Prompt window. The user can click it to access the Expression window and set up an expression for the parameter value.
<p>2</p>	<p>Prompt - Enter a text prompt that instructs the user what to do with the parameter. The prompt will display next to the parameter's radio button in the View Prompt window. For example, you could enter text such as <i>Choose a user list:</i> for a user list parameter.</p> <hr/> <p>Note: In order to activate a parameter and have it display in the View Prompt window, you need to enter a prompt. If you don't enter a prompt, you are required to specify a default value.</p>
<p>3</p>	<p>Default Value - You have the option of specifying a default value for each parameter. The value displays in the View Prompt window where the user can either accept it or override it by choosing a different parameter value.</p> <ul style="list-style-type: none"> • Click the Browse button  to set up a default. The window that opens depends on the type of parameter. For example, the Select or Advanced Select Members window opens for a Select Members parameter. • Click the "X" button to remove a default value from the parameter.
<p>4</p>	<p>Display Text – You have the option of customizing the Display Text property for the parameter. See How Parameter Display Text Interacts with Other Settings for more details and examples.</p> <ul style="list-style-type: none"> • View – This is the default Display Text selection for all parameter types. Setting this to view means that you want the applicable drop-down list or Select/Advanced Select Members windows for the parameter to display based on the display text setting for the associated level in

the view.

- **Value or Attribute Relationship** – Setting the Display Text to a specific attribute (either value or attribute relationship) means that you want the applicable drop-down list or Select/Advanced Select Member windows for the parameter to display using the selected attribute.

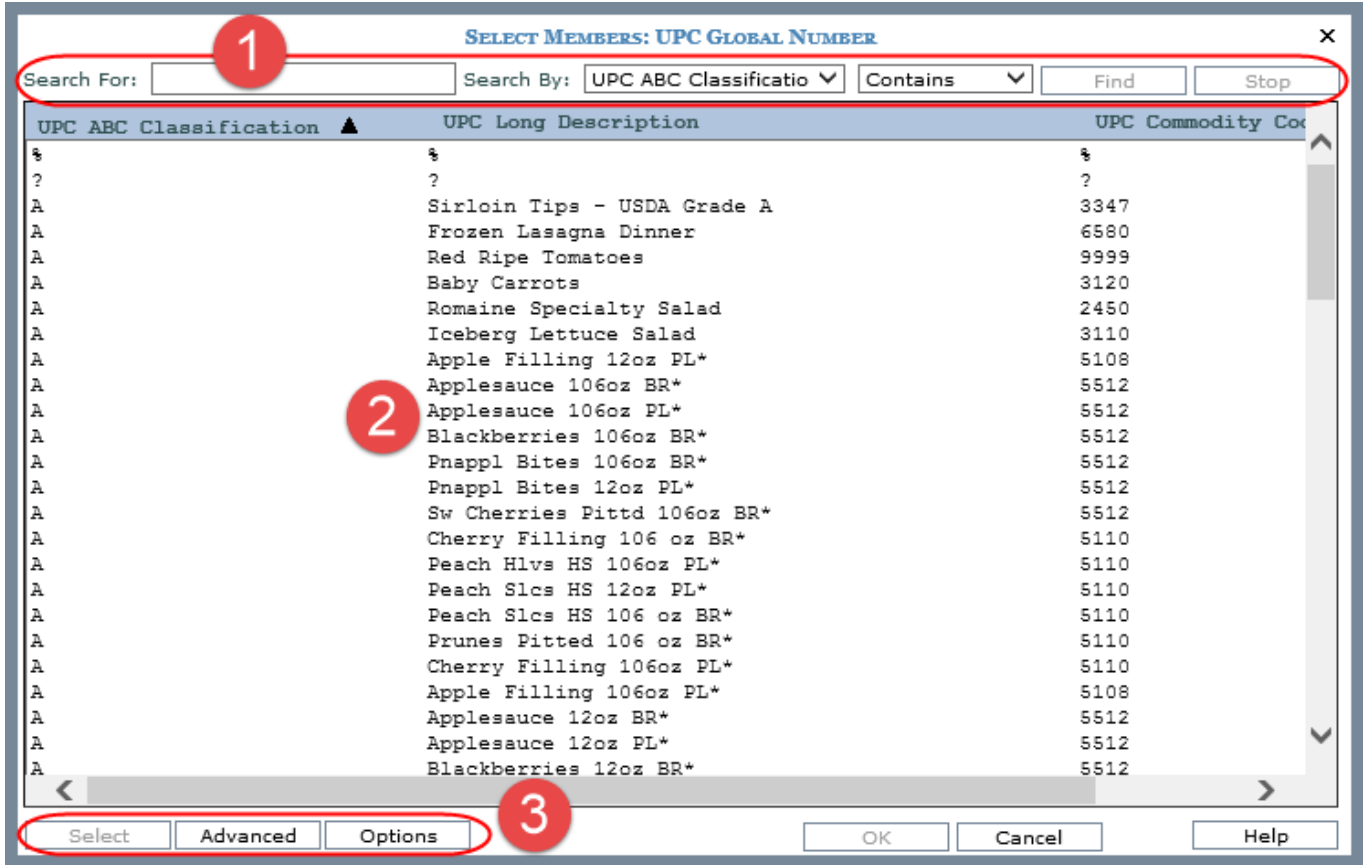
Note: Administrative settings in the Select Members Options window can override the parameter Display Text property.

Properties Window for Presentation



1	Type – Controls what presentation format a view runs in by default. Set to Viewer for the view to display in the traditional grid format. Set to Excel to have the view open as an MS Excel file.
2	Prompt – Use to set up the view such that users will be prompted to choose the presentation format for displaying view results each time they run the view. This is done by setting the Prompt property to Yes. The View Prompt window will display each time users run the view, and they can use the Presentation section in that window to choose the presentation format. If the option is No, the view will run in the format you selected for the Type property without any prompt.

Select Members Window



1

Window is initially populated with all authorized members for the active level. Make selections from the entire list, or execute a search to narrow down the list. Use the search properties to specify the criteria and the parameters by which to search for members to be used in a member list filter or user list.

Note: The window is also used when selecting members from the expression window for calculated measure items and when administrators set up roles.

Search For: - Enter a value in the Search For field. Multiple searches can be entered by separating them with a semicolon. If the Search For field is left blank, the available list displays all members for the active level.

Search By: - Use this drop-down list to select the attribute relationship to perform the search on.

Contains, Does not contain, Starts With, Equal to, Not Equal to, Greater than, Less than - Select whether you want your search to contain, not contain, start with, be equal to, not equal to, greater than, or less than the value(s) specified in the search.

Find - Click this button to execute the search. The list of available members is refreshed based on the search.

In the following example, we searched for UPC ABC Classification not equal to "a or b" and 19 items were retrieved.

Search For: a;b Search By: UPC ABC Classificatio Not Equal to Find Stop

UPC ABC Classification ▲	UPC Long Description	UPC Commodity Code
%	%	%
?	?	?
C	Asparagus	2450
C	Strawberries	4850
C	Orange Juice Conc.	5230
C	Blueberry Filling 106oz PL*	5110
C	Grapefruit Sctn UnS 106oz BR*	5110
C	Mand Org Pcs 106oz BR*	5110
C	Blueberry Filling 106oz BR*	5110
C	Mand Org Pcs 12oz PL*	5110
C	Blueberry Filling 12oz PL*	5110
C	Grapefruit Sctn UnS 12oz BR*	5110
C	Mand Org Pcs 12oz BR*	5110
C	Blueberry Filling 12oz BR*	5110
C	Mand Org Pcs 106oz PL*	5110
C	Navel Oranges	3160
C	Pork Chops - Butterfly	3347
C	Ground Round 90% Lean	3347
C	Sweet Onions, Chopped	9999

2

Available Selection list – Use this list to select the members to include in a member list filter, expression, etc. The list area displays the names of the members returned by your search. Multiple selections may be made using Ctrl+Click, and a range of items may be selected using Shift+Click. Select the desired member(s) from the available selection list and click OK.

Columns in this area are sort and drag/drop enabled. In the following example, we clicked the UPC Long Description column and dragged it to the first position. We also clicked the Sort icon to perform the sort on that column in ascending order.

UPC Long Description ▲	UPC ABC Classification	UPC Commodity Code
%	%	%
?	?	?
Asparagus	C	2450
Blueberry Filling 106oz BR*	C	5110
Blueberry Filling 106oz PL*	C	5110
Blueberry Filling 12oz BR*	C	5110
Blueberry Filling 12oz PL*	C	5110
Grapefruit Sctn UnS 106oz BR*	C	5110
Grapefruit Sctn UnS 12oz BR*	C	5110
Ground Round 90% Lean	C	3347
Mand Org Pcs 106oz BR*	C	5110
Mand Org Pcs 106oz PL*	C	5110
Mand Org Pcs 12oz BR*	C	5110
Mand Org Pcs 12oz PL*	C	5110
Navel Oranges	C	3160
Orange Juice Conc.	C	5230
Pork Chops - Butterfly	C	3347
Strawberries	C	4850
Sweet Onions, Chopped	C	9999

3

Advanced – Click to access the Advanced Select Members window if you prefer to use that advanced version of the window to search for, select, or remove members. The advanced window is helpful when working with levels for which a large amount of members exist. The Advanced button may not display depending on administrative settings for the level. Administrators determine which member selection windows are available by level.

Options – Use to change the information and number of results displayed in the window.

View Explorer

The screenshot displays two windows. The top window, 'View Explorer', shows a tree structure for 'Customer Ship-To Sales'. The tree includes folders for 'Parameter Groups', 'Grid', 'Columns', 'View Filter', 'Measure Items', and 'Presentation'. Under 'Grid', there is a 'Rows' folder containing 'Customer Ship-To', which has sub-items 'Customer Ship-To', 'ShpTo Long Description', 'ShpTo Contact', and 'ShpTo Country'. Under 'View Filter', there are 'Product ABC Class' and 'Product Brand'. Under 'Measure Items', there are 'Actual Sales Amount Q3 2014', '% of Total', 'Actual Sales Amount Q3 2013', '% of Total', and 'Percent of Total Growth'. Under 'Presentation', there is a 'Charts' folder containing 'Bar Chart Sales Analysis'. Red circles and arrows highlight these elements: 1 points to the root folder, 2 to the Grid folder, 3 to the Customer Ship-To folder, 4 to the View Filter folder, 5 to the Measure Items folder, and 6 to the Charts folder. The bottom window, 'Properties - Customer Ship-To Sales', shows a table of properties for the selected view.

Properties - Customer Ship-To Sales	
Name	Customer Ship-To Sales
Description	Current Quarter Current Yr vs Prior Year
Type	Shared
Owner	Karen Jones
Planning	No
View Group	My Reports Planning Analysis Sales Team Analysis Specialty Reports
Server	

The elements in view explorer are organized into a tree structure that has expandable/collapsible folders. Folders are described in the following table. Color-coding is used throughout to help you distinguish which items will be visible in the grid and which are hidden.

- **Items in blue text** – Any items currently shown in the grid. Their Visible property is “Yes” in their Properties window.
- **Items in black text** – Any items that are not actively shown in the grid, but that have a Visible property of “Yes.” This means they will display in the grid once you reach them in the drill down path for the view.

- **Items in grey text** – Any items that have a Visible property of “No.” For levels, this means they will not display in the grid as you drill through it. Attribute relationships, measure items, and charts displayed in grey text also will not display in the grid. You can right-click on them anytime and select Show to make change their Visible property.

When you click an item, it is highlighted in a bright blue box like the view name, “Customer Ship-To Sales,” in the above example. When double-clicked, the Properties window of the active item opens at the bottom of the view explorer as shown in the above example. You can also right-click to invoke a pop-up menu of actions to take on items from view explorer.









1	<p>View name folder – displays the name of the view. Double-click to access the Properties window for editing basic properties like the Name, Type, Planning, and View Group properties. Administrators can use the Owner property to change the owner of a view.</p>
2	<p>Parameter Groups folder – for parameter groups and parameters within each group. As you insert groups and parameters, they will display under this folder. Each group and parameter has a related Properties window. You can drag and drop groups and parameters within each group to rearrange them.</p>
3	<p>Grid folder – The folders for Rows, Columns, View Filters, and Measure Items are organized under the Grid folder. From the Grid folder, you can access a Grid Properties window which determines if the grid is visible and if paging is enabled for the grid display.</p> <p>Rows and Columns folders – All of the included levels and attribute relationships, grouped by hierarchy, display appropriately in the Rows and Columns folder. You can move hierarchies along with their levels and attribute relationships between the Rows, Columns, or View Filter by dragging and dropping them within view explorer or into the grid from view explorer. Properties windows exist for hierarchies, levels, and attribute relationships in these folders. Use them to hide or show items, set up filters or sorting, control totals, etc.</p> <ul style="list-style-type: none"> • Hierarchies  – This image displays next to the names of hierarchies. • Levels  – Blue boxes next to a level indicate the level it is based for all the levels in its hierarchy. For example, a level with one box next to it would be the first level for its hierarchy. A level with two boxes next to it would be the second level available in its hierarchy, and so forth. • Attribute Relationships  – This image displays next to the names of attribute relationships for levels.
4	<p>View Filter folder – Levels included in the view filter. Setting up a view filter requires a level to be in the View Filter section and then applying a filter to that level. Drag or drop the desired level(s) into the View Filter section of the grid or into the View Filter folder of view explorer.</p>
5	<p>Measure Items folder – All measure items defined for this view display in the folder. You can edit, insert, remove and hide measure items from this folder. The Time Range controls the type of measure items that you can set up for the view – either measure items with time ranges (Yes) or measure items without time ranges (No). You can also use the Properties windows for individual measure items to change their caption, images, conditional formatting, pop-up labels, hyperlinks, filtering, sorting, totals, etc.</p> <ul style="list-style-type: none"> • Regular Measure Item  – This image displays next to regular measure items. • Calculated Measure Item  – This image displays next to calculated measure items. • Distinct Calculated Measure Item  – This image displays next to distinct calculated measure items.
6	<p>Presentation folder – The properties for this folder are used to set the default presentation format for the view (either Viewer or Excel) and to determine whether or not users will be prompted to choose the presentation format before the view opens for them.</p>

Chart folder – The Chart folder displays the names of any charts  that you have created for a view. Charts displayed in blue are currently visible in the grid. Charts displayed in grey are hidden. Charts can be dragged and dropped in the folder to change the order in which they display in the grid.

View Prompt Window

<p>1</p>	<p>Parameter Groups - You can distinguish each parameter group that exists for a view by the bold name above each group. In this example, there is a group named "RepBrokerType Group" for the RepBroker Type level, and a group named "Product Category Group" for the Product Category level. Each group has its own set of parameters and one parameter per group can be used to filter its respective level in the view.</p>
<p>2</p>	<p>Individual Parameters - Parameters in each group have their own radio buttons. Select one to activate that parameter and then specify a value for it (see 3 below). If a default value is associated with a parameter, the value will display in the field next to the parameter. You can leave a parameter set to the default or choose a different value.</p>
<p>3</p>	<p>Specifying Parameter Values - Select a parameter's radio button then use the control provided to specify values:</p> <ul style="list-style-type: none"> • Drop Down parameters have a drop-down list. A single member can be selected. • Member List, User List, and Expression parameters have a filter icon next to them. Click the icon and use the window that opens to specify the member(s), user list, or expression for the parameter value. You will use the Select or Advanced Select Members window for Member List parameters, Select User List Filter window for User List parameters, and Expression window for Expression parameters. Clicking OK in the filtering window returns the specified member(s),

	user list, named set, or expression to the parameter's field in the View Prompt window.
4	Presentation – This section only displays if you selected the Yes option for the Presentation section's Prompt property. Users can choose to run the view in Viewer (grid) format or as an MS Excel file. If they aren't any parameters defined for the view and Prompt is set to Yes, then the Presentation section will be the only thing that displays in the View Prompt window.
5	<p>OK and Cancel -</p> <ul style="list-style-type: none"> • OK - If you specify parameters and click OK, the window closes and the specified parameter values will be applied to filter the view. Filter icons will display next to the filtered levels. You can click OK without specifying any parameters. If none of the parameters are required, the window closes and the view runs without any filtering by parameter. If any of the parameters are required, a prompt will display indicating that you must specify a value for that parameter. • Cancel - If you click Cancel, the window closes and the View Definition window displays. You might choose to do this if you decide you want to make edits to the view before running it. Make changes and then access the View Prompt window again to specify parameters and run the view. If the window doesn't open automatically after your editing has been applied to the view, click the Prompt button  in the grid toolbar.

Advanced Concepts

How Parameter Display Text Interacts with Other Settings

When you are setting up parameters, you have the option of customizing the Display Text property for them. For a Drop Down parameter in the View Prompt window, this property can influence how members display in the drop-down selection list of the View Prompt window. For Select Members, User List, and Expression parameters, the property can influence how information displays by default in the Select Members, Advanced Select Members, and Select User List Filter windows when those windows are accessed for their respective parameter types in the View Prompt window.

Additional details and examples related to the parameter Display Text property are provided in this topic.

- [Additional Details about the Property](#)
- [Examples of the Property Interacting with Other Settings](#)

Keep in mind, there is an administrative Search By setting that takes precedence when it is set to a specific attribute for the level on which the parameter exists. In such cases, the Search By setting in the Select and Advanced Select Members window will always default to the administrator-defined attribute.

Additional Details about the Property

Your choices for a parameter's Display Text are View or an attribute for the parameter's level. An attribute is either the level value or one of its attribute relationships.

- **View** – This is the default Display Text selection for all parameter types and has the following impact depending on parameter type:
 - **Drop Down** -- Members in the drop-down selection list of the View Prompt window will display the same as they do for level members in the grid. That means by value if level members in the grid display by value, or by an attribute relationship if level members in the grid display by that attribute relationship.
 - **Select Members** – Select and Advanced Select Members windows opened from the View Prompt window for the parameter will have their display columns default to the values and/or attribute relationships showing in the grid (acting the same as they do when the windows are opened from other

areas in the grid such as from level filter icons). The Search By property in the windows will default to the first display column in the grid or an administrator-specified attribute relationship depending on how your administrator has set up Select Members options settings for the level.* Similar behavior occurs for **Expression parameters** when the Select and Advanced Select Members windows are accessed from its Expression window.

- **User List** – Display columns in the Select User List Filter window opened from the View Prompt window will default to the values and/or attribute relationships showing in the grid. The first display column will be either the first display column in the grid or an administrator-specified attribute relationship depending on how your administrator has set up Select Members options settings for the level.*
- **Value** – This parameter Display Text selection has the following impact, depending on the parameter type:
 - **Drop Down** – Choose this option if you want members in the drop-down selection list of the View Prompt window to display by their values regardless of how level members are displayed in the grid.
 - **Select Members** – The first display column in Select and Advanced Select Members windows opened from the View Prompt window for the parameter will default to value. The Search By property will default to value or an administrator-specified attribute relationship depending on how you administrator has set up Select Members options settings for the level.* Similar behavior occurs if you choose Value for **Expression parameters** when the Select and Advanced Select Members windows are accessed from its Expression window.
 - **User List** – The first display column in the Select User List Filter window will default to value or an administrator-specified attribute relationship depending on how your administrator has set up Select Members options settings for the level.*
- **An attribute relationship** – If a level has attribute relationships available for it in the view, you can choose one of those attribute relationships as the parameter Display Text. If no attribute relationships are available, only View and Value options will be available for Display Text. Choosing an attribute relationship as the parameter Display Text has the following impact depending on the parameter type:
 - **Drop Down** – Choose this option if you want members in the drop-down selection list of the View Prompt window to display by the attribute relationship you selected regardless of how level members are displayed in the grid.
 - **Select Members** – The first display column in Select and Advanced Select Members windows opened from the View Prompt window for the parameter will default to the attribute relationship you selected. The Search By property will default to that attribute relationship or an administrator-specified attribute relationship depending on how you administrator has set up Select Members options settings for the level.* Similar behavior occurs if you choose an attribute relationship for **Expression parameters** when the Select and Advanced Select Members windows are accessed from its Expression window.
 - **User List** – The first display column in the Select User List Filter window will default to the attribute relationship you selected or an administrator-specified attribute relationship depending on how your administrator has set up Select Members options settings for the level.*

***Note:** If your administrator sets the level's Search By setting in Select Members Options to a specific attribute, that attribute relationship takes precedence over any parameter Display Text settings. The Search By setting for a level in the Select Members Options needs to be set to System Defined in order for parameter Display Text settings to take effect.

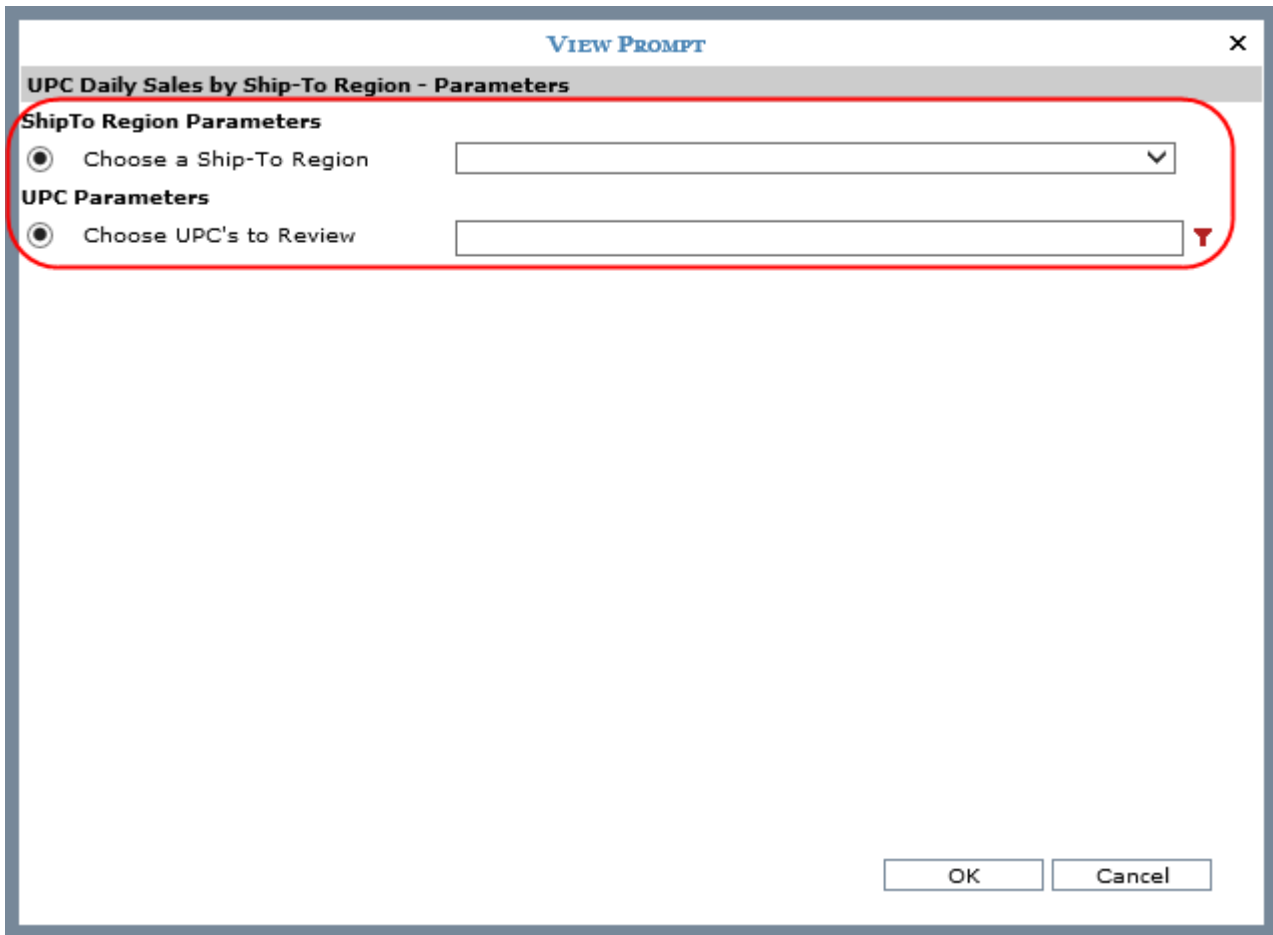
Examples of the Property Interacting with Other Settings

The following examples demonstrate how the Display Text property for parameters interact with other settings to influence what users see when accessing filtering windows from the View Prompt window in a view with parameters.

The following view has a Drop Down parameter on the Ship-to Region level. The SRgn Short Description and SRgn Country attribute relationships display for that level in the grid. There is a Select Members parameter on the UPC Global Number level. The UPC Short Description and UPC ABC Classification attribute relationships display for that level in the grid. The three examples that follow show what users will see when they run the view and make parameter selections in the View Prompt and related filtering windows.

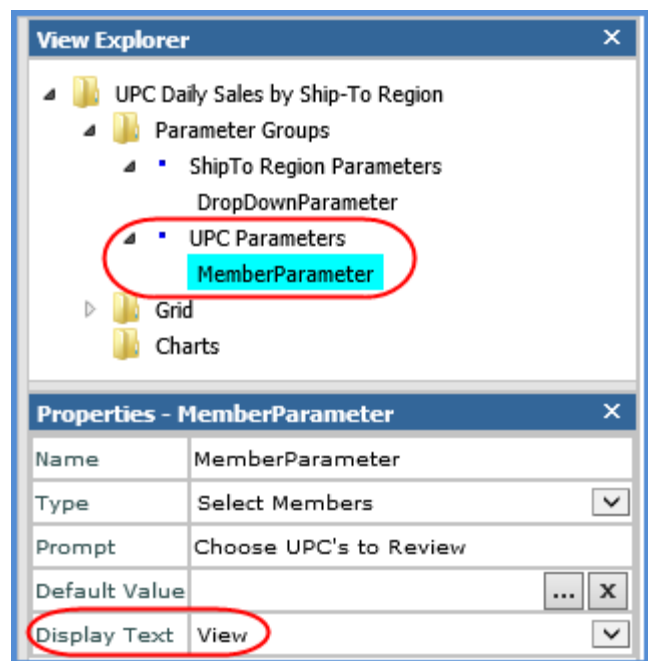
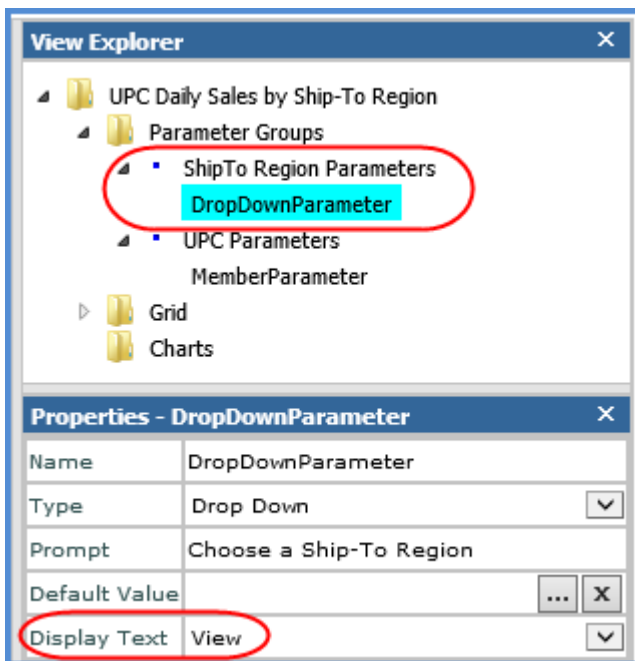
View Name: *UPC Daily Sales by Ship-To Region*
View Filter

	Ship-To Region >> SRgn Country	W. CAN		All Others		Grand Total
UPC Global Number	UPC ABC Classification	Daily Sales Amount Jan 14 to Sep 14	Daily Sales Units Jan 14 to Sep 14	Daily Sales Amount Jan 14 to Sep 14	Daily Sales Units Jan 14 to Sep 14	Daily Sales Amount Jan 14 to Sep 14
Apple Filling 106oz BR*	B	\$5,349,787	1,210	\$20,208,603	4,922	\$25,158,390
Apple Filling 106oz PL*	A	\$12,587,976	3,931	\$50,078,627	16,494	\$62,666,603
Apple Filling 12oz BR*	B	\$2,461,067	1,365	\$8,697,768	3,553	\$11,158,835
Apple Filling 12oz PL*	A	\$1,875,259	937	\$25,367,112	10,036	\$27,242,371
Apples Red Delicious	B	\$10,125,146	5,910	\$51,616,825	34,628	\$61,741,971
Applesauce 106oz BR*	A	\$3,486,263	653	\$29,631,923	8,415	\$33,118,186
Applesauce 106oz PL*	A	\$28,706,689	4,805	\$97,139,933	20,314	\$125,846,622
Applesauce 12oz BR*	A	\$3,809,561	1,232	\$21,619,517	4,994	\$25,429,078
Applesauce 12oz PL*	A	\$4,345,530	2,272	\$60,790,985	27,156	\$65,136,515
Asparagus	C	\$16,301,526	1,560	\$96,845,428	25,981	\$113,146,954
Baby Carrots	A	\$8,199,239	3,393	\$35,278,803	14,733	\$43,478,042
Bananas	B	\$2,467,573	1,800	\$13,750,576	7,470	\$16,218,149
All Others		\$447,804,626	128,796	\$2,466,375,126	728,709	\$2,914,179,751
Grand Total		\$547,520,242	157,862	\$2,977,401,224	907,406	\$3,524,821,975

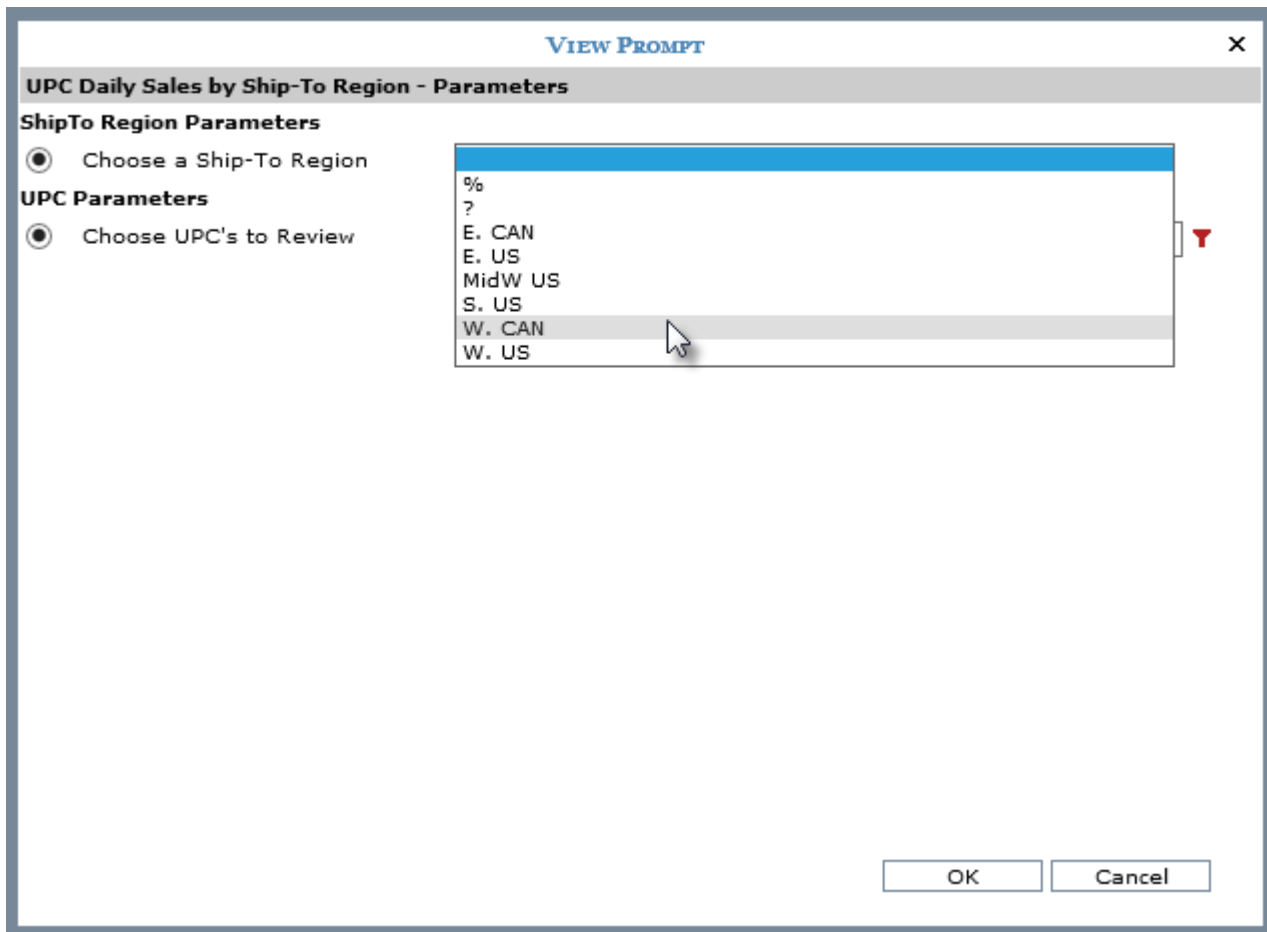


Example 1, Parameter Display Text = View

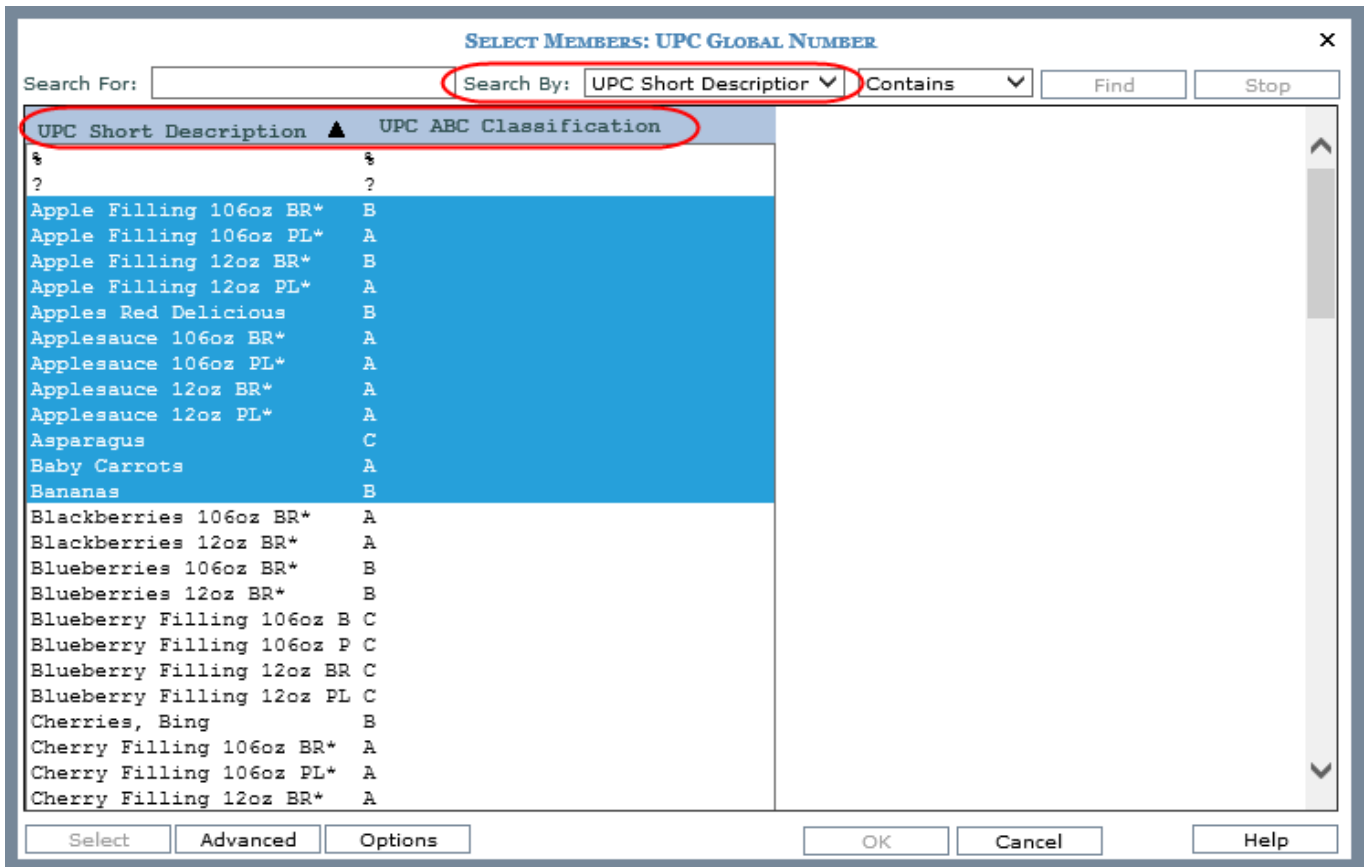
In this example, the Display Text property for each parameter is set to View. The administrative Search By setting is set to System Defined for both levels.



The drop-down list in the View Prompt window for the Ship-To Region parameter displays members by what shows in the grid for Ship-to Region members, in this case the SRgn Short Description.

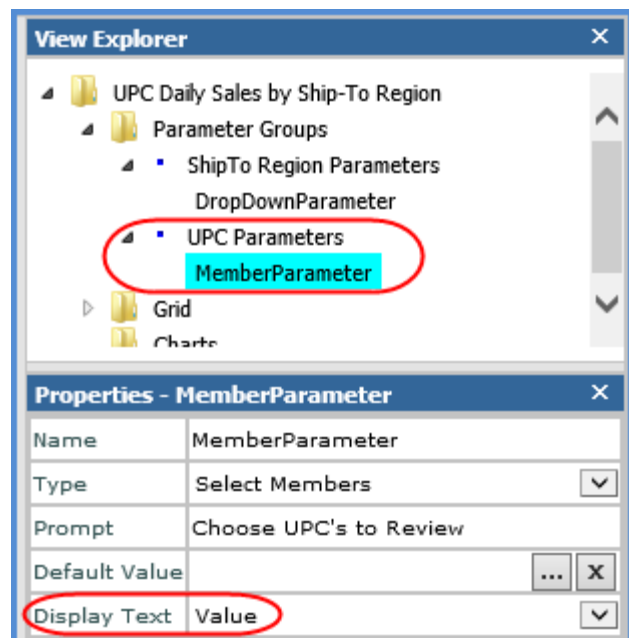
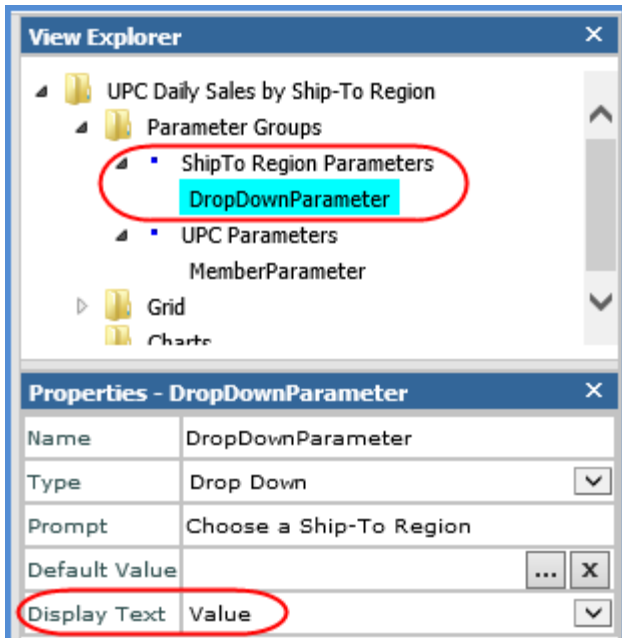


The filtering windows accessed from the View Prompt window for the UPC Global Number parameter display information according to the grid as well. Search By in the Select and Advanced Select Members windows will default to the first attribute displayed in the grid, which is UPC Short Description. Display columns in the filtering windows will be UPC Short Description and UPC ABC Classification.

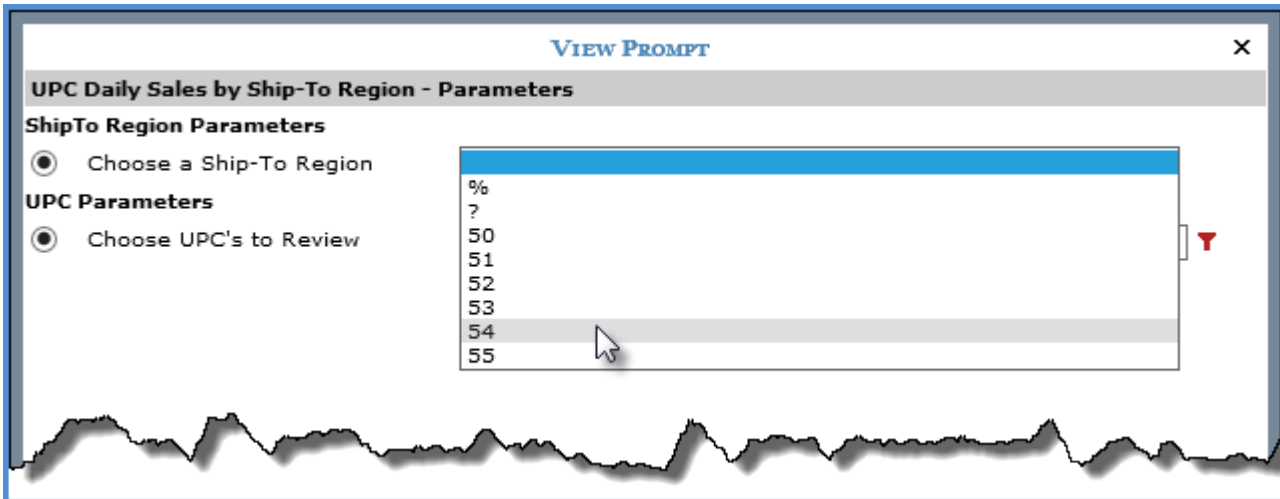


Example 2, Parameter Display Text = Value

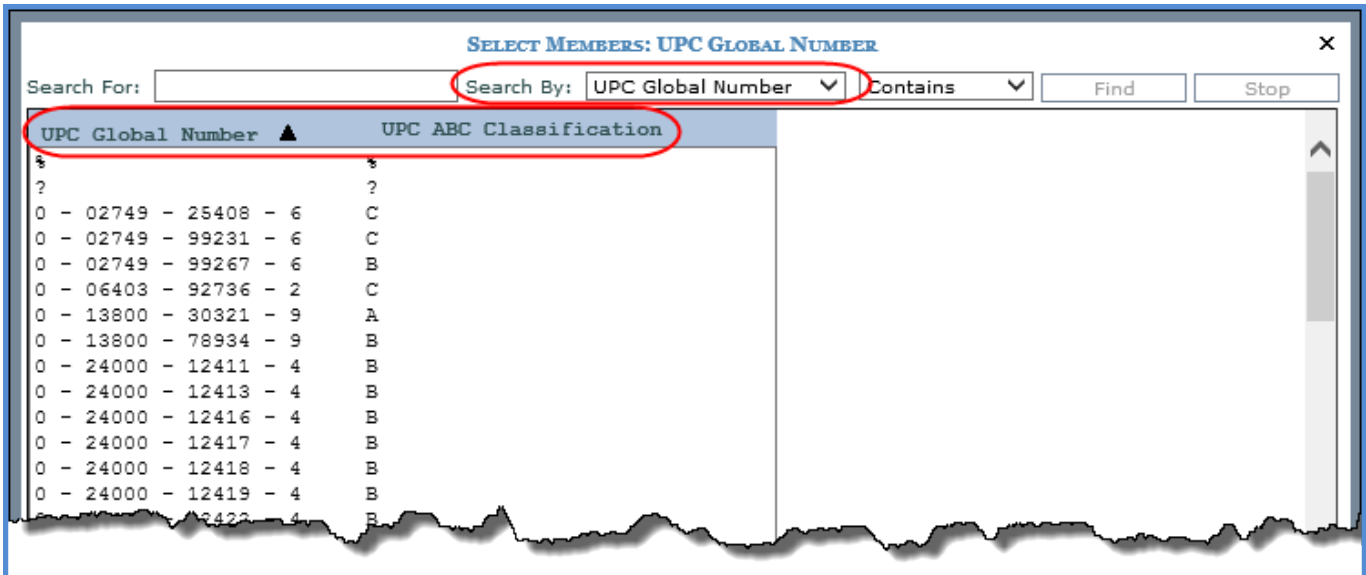
The second example is of the Display Text property set to Value for each parameter. The administrative Search By setting is still set to System Defined for both levels.



The drop-down list in the View Prompt window for the Ship-To Region parameter display members by value.

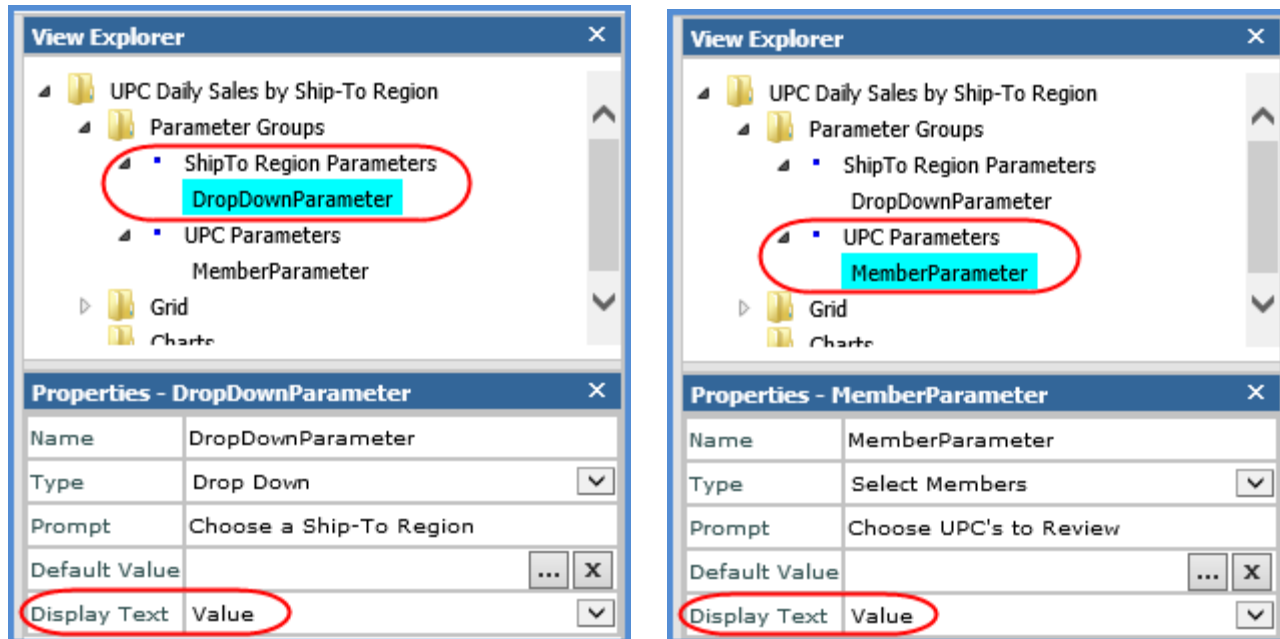


The filtering windows accessed from the View Prompt window for the UPC Global Number parameter will have their Search By default to the UPC Global Number value. The first display column in the filtering windows also will default to the UPC Global Number value. The remaining display columns in the windows will be any other attributes in the grid other than the level Display Text – which in this case is just UPC ABC Classification.

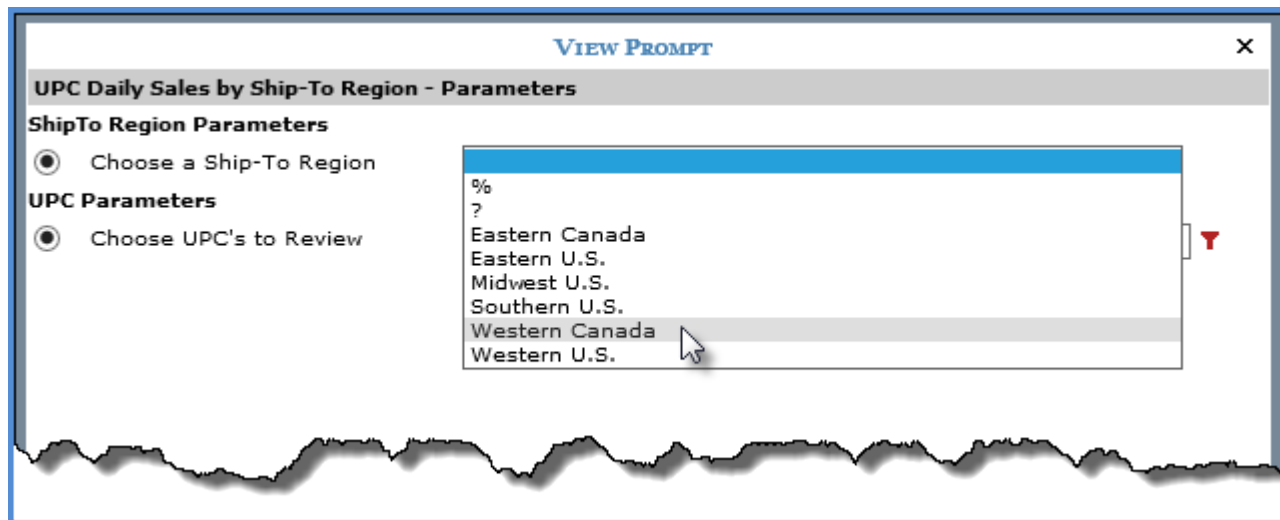


Example 3, Parameter Display Text = Value

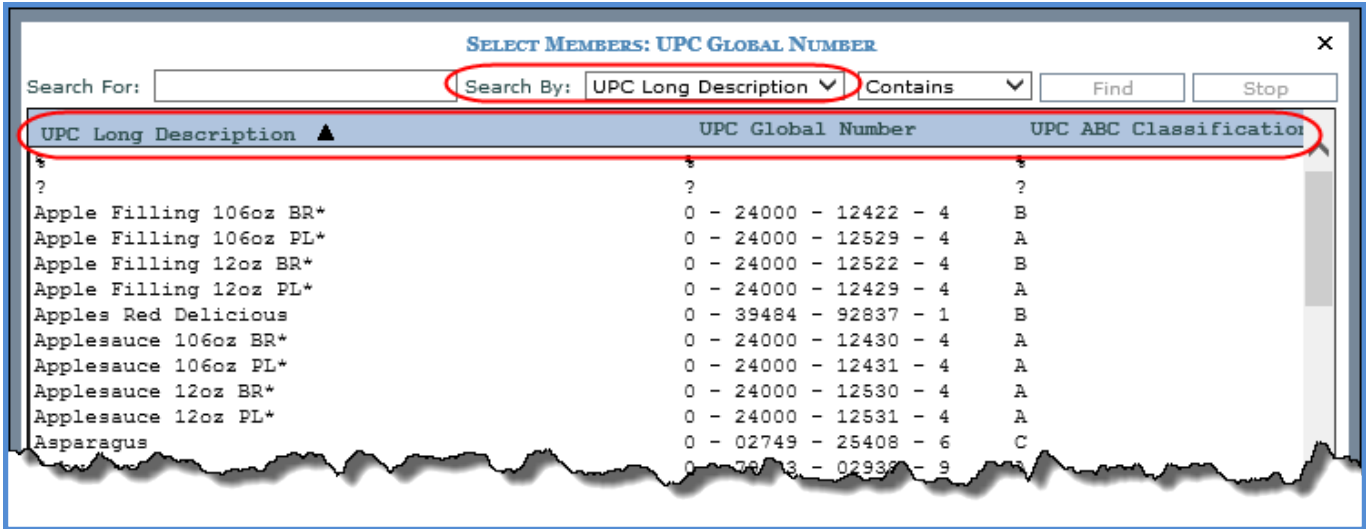
The final example also uses a Display Text property of Value for each parameter. However, in this case, the administrative Search By setting for both levels has been set to their Long Description attributes relationships. This means the administrative setting will take precedence in the View Prompt and related filtering windows.



The drop-down list in the View Prompt window for the Ship-To Region parameter display members by SRgn Long Description.



The filtering windows accessed from the View Prompt window for the UPC Global Number parameter will have their Search By default to UPC Long Description. The first display column in the filtering windows also will default to UPC Long Description. The remaining display columns in the windows will be the value (as defined by the parameter Display Text) and any other attributes in the grid other than the level Display Text – which in this case is just UPC ABC Classification.



Passing Parameters into Views via URL's

Stratum.Viewer supports passing parameters to existing views through URL access. This provides integration between other applications and Stratum.Viewer views. The types of parameters that can be used with this functionality are Select Members, Drop Down, User List, and Expression (except for named sets) parameters. For example, the following URL passes two values for a Select Members parameter named RepBrokerMembers that exists for the RepBroker level.

<http://server-xyz:60500/Default.aspx?ViewID=472&vp:RepBrokerMembers=306;305>

The syntax of the URL must contain the location of the Stratum.Viewer application, the view ID, the name of the parameter, and the values to be passed in a format supporting the specified parameter type. For user list parameters, you also need the user list ID. You also can include syntax in the URL that will control the display of the grid toolbar, name of the view and image above the grid, View Filter section, and view explorer. A few [examples](#) showing different types of parameter values passed into views via URL's follow. Before looking at the examples, here are some tips about where to find the information needed for the URL syntax. Also shown is the syntax for hiding the toolbar, View Filter section, and view explorer.

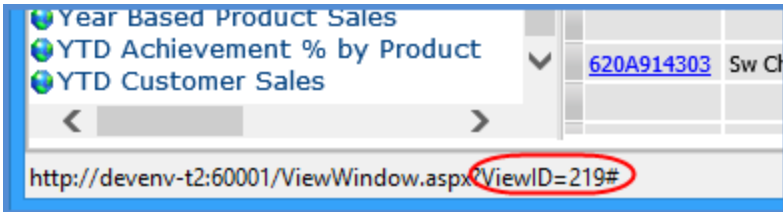
Syntax for URL's

This table shows the format to use when setting up different parts of the URL.

Item	Format & Values
Location of Stratum.Viewer and display of top frame and left panel	<p>To run the view without the Stratum.Viewer top frame and left panel: <code>http://server-xyz:#####/ViewWindow.aspx</code> where server-xyz is the name of the Stratum.Viewer server and ##### is its port number.</p> <p>To run the view with the Stratum.Viewer top frame and left panel displayed: <code>http://server-xyz:#####/Default.aspx</code> where server-xyz is the name of the Stratum.Viewer server and ##### is its port number.</p>
View name	ViewID=# where # is the ID assigned to the view by Stratum.Viewer
Parameter name	Name= where name is the parameter name and the value(s) of the parameter follow the equal sign
Separators between items	<p>? - use a question mark to separate the location of Stratum.Viewer from the View ID</p> <p>&vp: - use that string of text to separate the View ID and parameter name (note the colon used after the &vp text). Also used to separate multiple parameter types if more than one type is passed via the URL.</p> <p>; - use a semi-colon to separate multiple values specified for a single Select Members parameter.</p> <p>& - use an ampersand to separate additional items in the URL from the parameters, such as syntax for hiding the grid toolbar, View Filter section, or view explorer.</p>
Grid toolbar	<p>To hide it, use <code>IsHideToolbar=True</code></p> <p>To display it, either exclude this syntax from the URL all together or use <code>IsHideToolbar=False</code></p>
View name above grid	<p>To hide it, use <code>IsHideViewName=True</code></p> <p>To display it, either exclude this syntax from the URL all together or use <code>IsHideViewName=False</code></p>
View image above grid	<p>To hide it, use <code>IsHideViewImage=True</code></p> <p>To display it, either exclude this syntax from the URL all together or use <code>IsHideViewImage=False</code></p>
View Filter section	<p>To hide it, use <code>IsHideViewFilter=True</code></p> <p>To display it, either exclude this syntax from the URL all together or use <code>IsHideViewFilter=False</code></p>
View explorer	<p>To hide it, use <code>IsHideExplorer=True</code></p> <p>To display it, either exclude this syntax from the URL all together or use <code>IsHideExplorer=False</code></p>

View ID

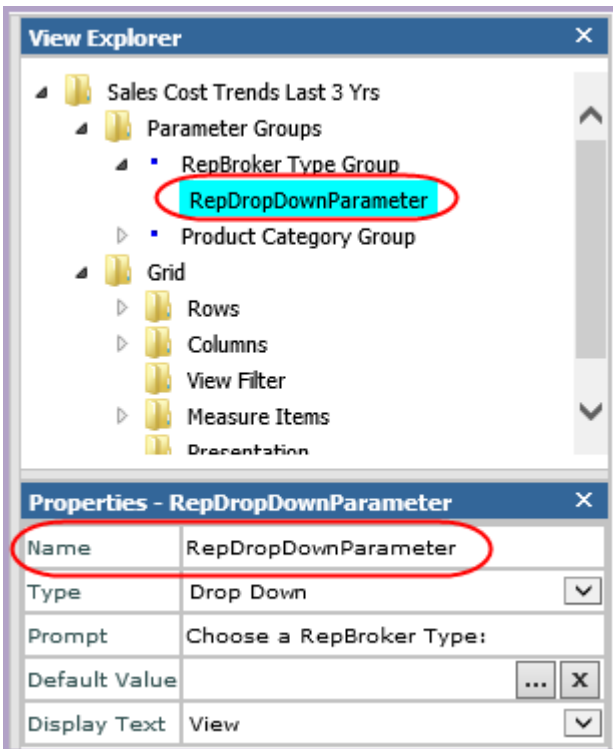
The view ID shows in the bottom of your browser window when you run a view as it loads in the Stratum.Viewer interface. It shows in the same area when you hover the mouse cursor over any drilling links in the grid and when administrators run views from the View list window.




Another option for looking up the View ID is to create a Web Part from the view and look up the ID in that web part file. Right-click the view name in the left panel and select Web Part. Save the web part file and then look at the resulting *.dwp file in a text editor such as Notepad.

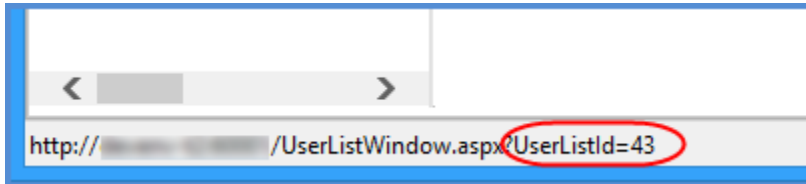
Parameter Name

The name of a parameter can be looked up in view explorer. Right-click the associated view name in the left panel and select Edit. Expand the parameter group for the parameter to see the parameter name. The name also shows in its Properties window, accessed by double-clicking the parameter.



User List ID

The user list ID shows in the bottom of your browser window when you open a list from the User List window as the list loads in the User List Maintenance window. The ID displays in the same area when you are viewing the list from the User List Maintenance window and hover the mouse cursor over any buttons in the toolbar except for the Help button -- for example, when the mouse cursor is over the New button .

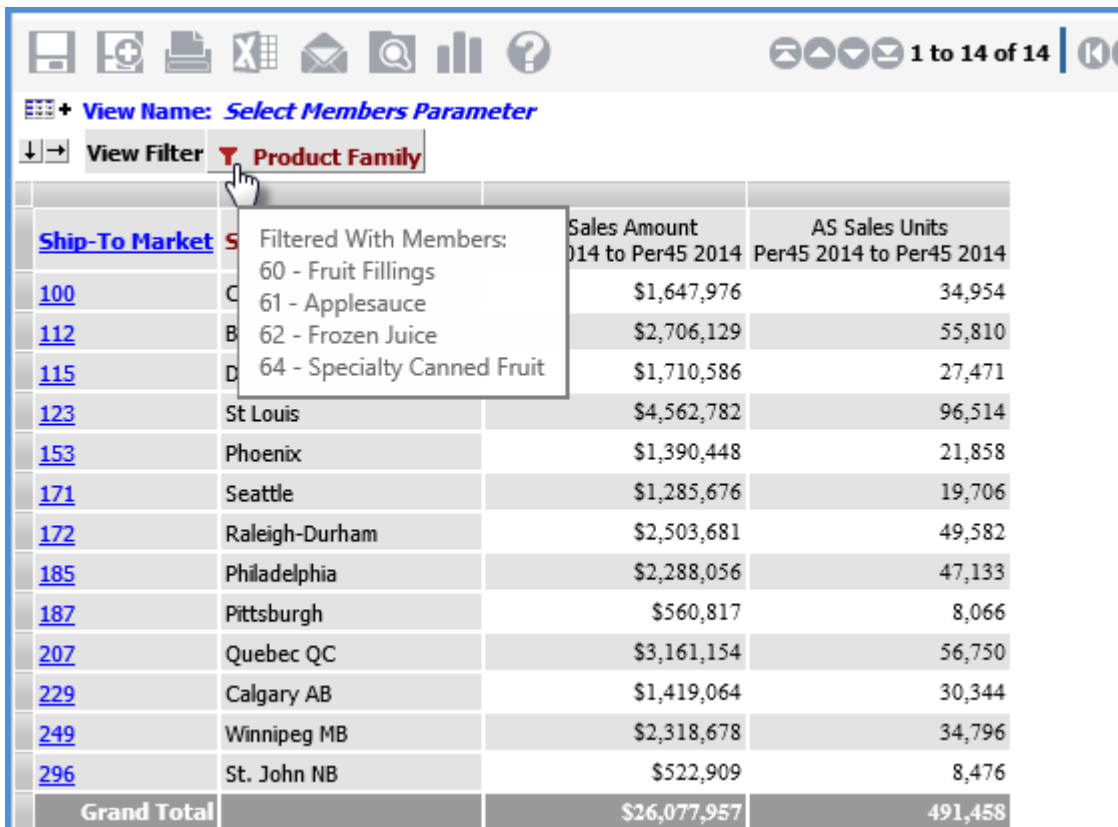


Examples

Select Members Parameter

This URL runs a view with ID 931. It returns four members for a Select Members parameter named MembersParameter that exists on the Product Family level.

<http://server-xyz:60500/Default.aspx?ViewId=931&vp:MembersParameter=60;61;62;64>



Ship-To Market	Sales Amount	AS Sales Units
100	\$1,647,976	34,954
112	\$2,706,129	55,810
115	\$1,710,586	27,471
123 St Louis	\$4,562,782	96,514
153 Phoenix	\$1,390,448	21,858
171 Seattle	\$1,285,676	19,706
172 Raleigh-Durham	\$2,503,681	49,582
185 Philadelphia	\$2,288,056	47,133
187 Pittsburgh	\$560,817	8,066
207 Quebec QC	\$3,161,154	56,750
229 Calgary AB	\$1,419,064	30,344
249 Winnipeg MB	\$2,318,678	34,796
296 St. John NB	\$522,909	8,476
Grand Total	\$26,077,957	491,458

Note: The previous URL and URL's in the remaining examples will display the top frame and left panel of Stratum.Viewer. That part of the interface has simply been cropped from the example images.

Drop Down and User List Parameters

This URL runs a view with ID 932. It returns a member for a Drop Down parameter named DropDownRepParameter that exists on the RepBroker level. The URL also returns members for a User List parameter named UserListShipToParameter that exists on the Ship-To Market level. The specified list has an ID of 104.

http://server-

xyz:60500/Default.aspx?ViewId=932&vp:DropDownRepParameter=300&vp:UserListShipToParameter=104

The screenshot shows a web application interface with a toolbar at the top containing icons for save, add, print, export, email, search, and help. The main content area displays a table with the following structure:

View Name: Drop Down Parameter		1 to 5 of 5					1 to 6 of 6	
View Filter								
RepBroker >> 300		All Others					Grand Total	
RepBr Long Description Nicole Toscano		Actual Sales Amount Sep 2014 to Sep 2014		Actual Sales Units Sep 2014 to Sep 2014		Actual Sales Amount Sep 2014 to Sep 2014		Actual Sales Units Sep 2014 to Sep 2014
Ship-To Market 112		SMkt Long Description Buffalo		\$31,334,747		802,585		\$29,235,306
172		Raleigh-Durham		\$25,056,769		627,464		\$24,648,935
185		Philadelphia		\$26,184,748		657,979		\$18,595,920
All Others		\$113,552,055		2,827,199		\$96,989,555		1,877,233
Grand Total		\$196,128,318		4,915,228		\$169,469,716		3,235,546

Expression Parameter

This URL runs a view with ID 933. It returns the values of an evaluated expression related to an Expression parameter named ExpProdParameter that exists on the Product level. The expression passed into the view by the parameter returns members of the level with a Prod ABC Classification attribute relationship of B.

After the parameter information, we included the text IsHideViewFilter=True in order to hide the View Filter section.

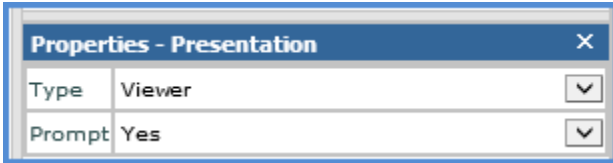
http://server-

xyz:60500/Default.aspx?ViewId=933&vp:ExpProdParameter=[Product].[Product].CurrentMember.Properties("Prod ABC Classification") = "B"&IsHideViewFilter=True

Product	Prod ABC Classification	Actual Sales Amount Jan 2014 to Sep 2014	Return Amount Jan 2014 to Sep 2014
FrtCktail HS 12oz BR* 0A	B	\$20,521	(\$1,788)
Peach Hlvs	B		(\$1,256)
Peach Slcs	B		(\$1,424)
Mand Org Pcs 12oz BR* 0A	B	\$18,021	(\$2,537)
Escalloped Apples 12 oz BR* 0A	B	\$19,896	(\$1,422)
Tropical Mix LS 12oz BR* 0A	B	\$13,052	(\$833)
Pnappl Slcs 12 oz BR* 0A	B	\$127,980	(\$13,615)
Pnappl Bites 12oz BR* 0A	B	\$7,296	(\$1,170)
Cherry Filling 12 oz BR* 0A	B	\$8,296	(\$2,497)
Grapefruit Sctn Sw 12oz BR* 0A	B	\$409	(\$67)
Apple Filling 12oz BR* 0A	B	\$4,994	(\$1,261)
FrtCktail HS 12oz Pl* 0A	B	\$2,353	(\$260)

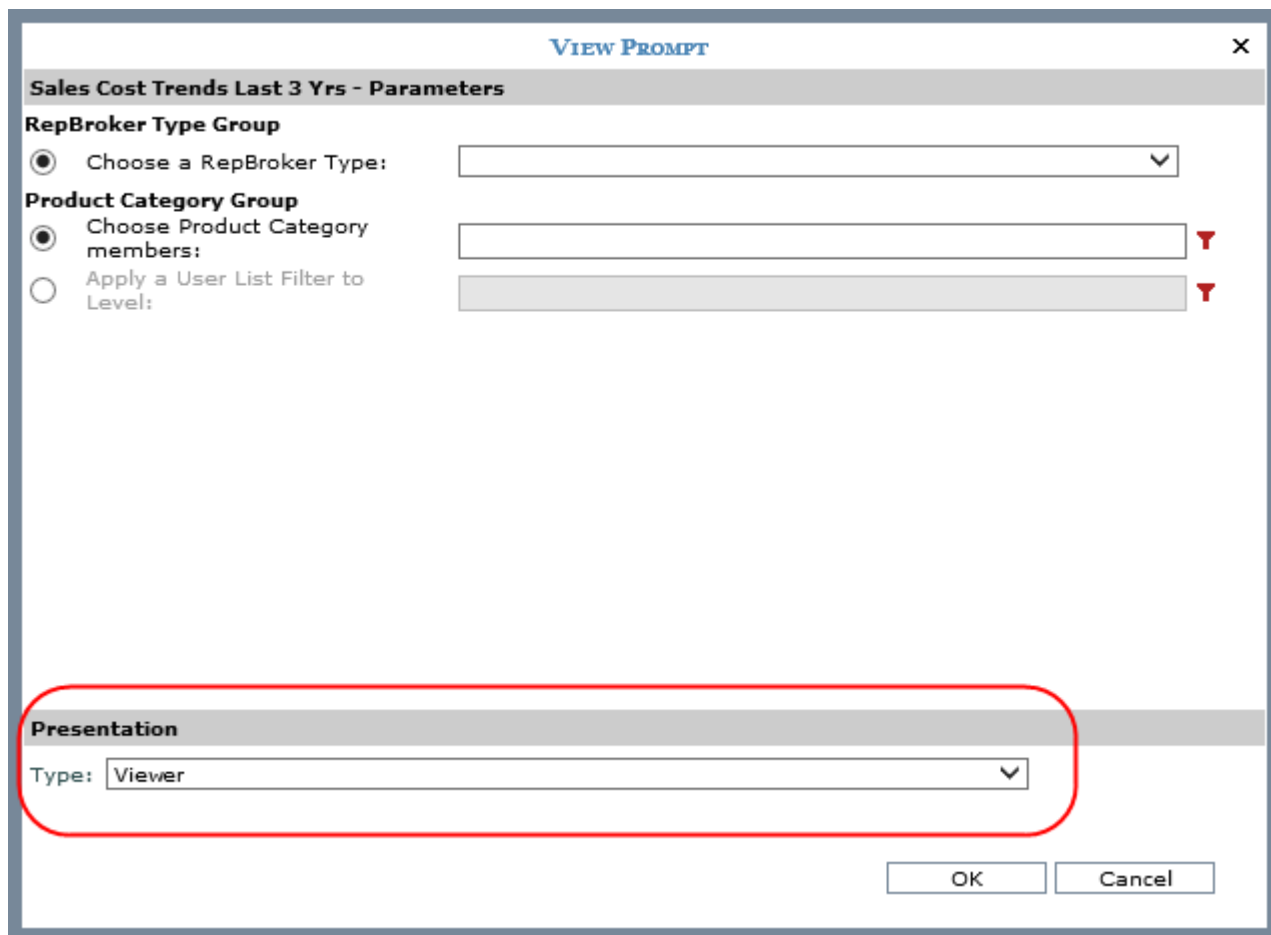
Prompting Users to Choose the View Presentation Format

You can set up views such that users will be prompted to choose the format for displaying view results each time they run the view, This is done by setting the Presentation section's Prompt property to Yes.

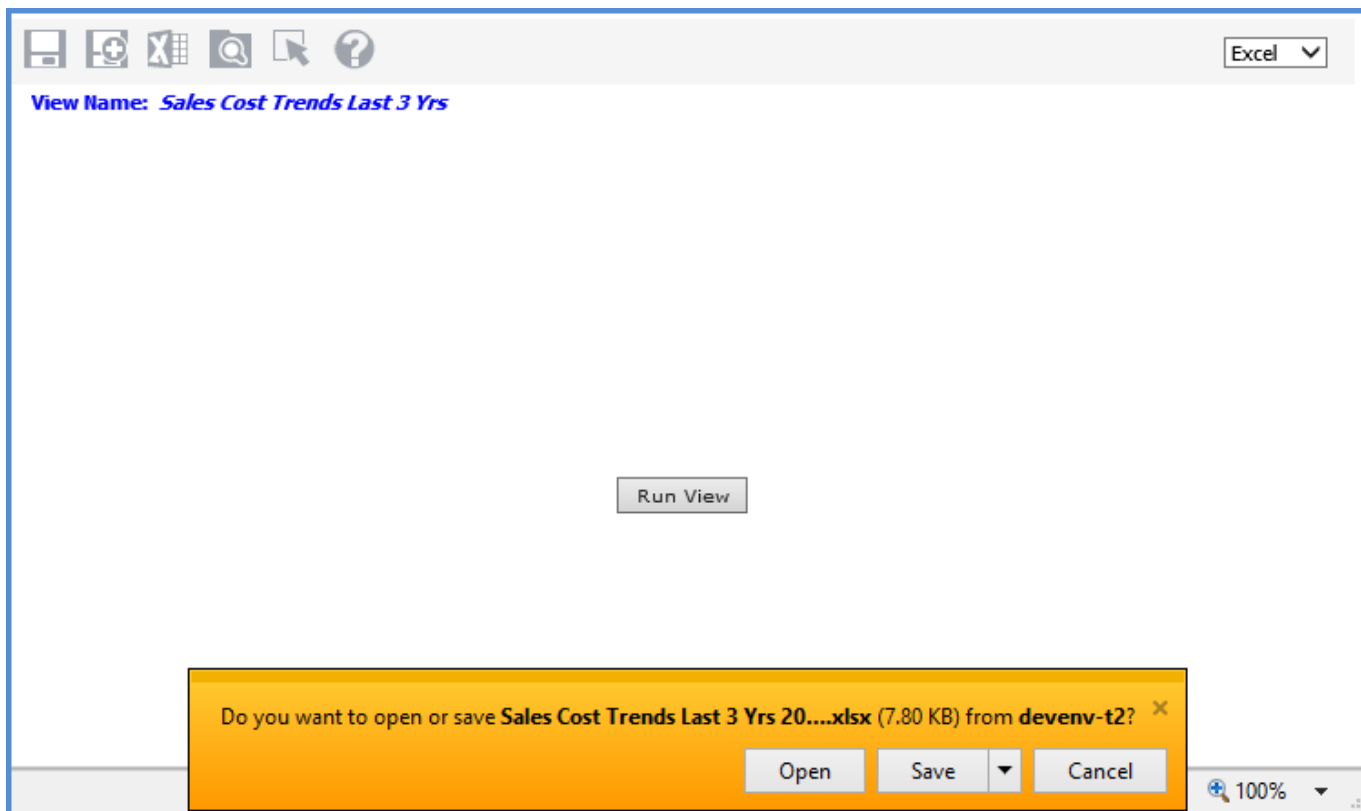


When the users, run the view, they will be presented with a View Prompt window. They can change the selection in the Presentation section to run the view in Viewer (grid) format or as an MS Excel file.

Note: If there aren't any other parameters defined for the view, then only the Presentation section will display in the View Prompt window.



If the Viewer option is selected, the view grid will display in the Stratum.Viewer interface. If the Excel option is selected, the View Definition page will display in the background while a File Download window or browser message opens. Users can open the file or save it to a specified location.



Removing Parameters While Performing a "Save As"

1. Click Save As in the grid toolbar.
2. Set up the properties for the new view and then de-select the Parameter Prompting checkbox.
3. Click Save.