



GridWorX Viewer Commanding



APPLICATION NOTE

August 2014

Description: Guide to using Commands for the GridWorX Viewer.
General Requirement: Familiarity with the GridWorX Viewer and Commanding in general.

Introduction

Before the introduction of Commanding scripting used to be required to interact with controls like the GridWorX Viewer. Commanding provides a simpler, more intuitive, and easier to maintain way to send these commands to controls.

This document will go over the commands that can be sent to or from a GridWorX Viewer. More information about Commanding in general or with respect to other controls can be found in other application notes or in the help files.

If you are unfamiliar with any aspects of Commanding, please refer to the application note entitled, "GENESIS64 – Commanding Introduction" to get started.

NOTE: All properties named Index are zero-based, meaning the first object always has an Index of 0.

Commands with a GridWorX Viewer Target

Expand Collapse

When grouping is enabled the Expand Collapse command will expand or collapse those groups. The **ExpandCollapse** property determines whether the command will cause the groups to expand or collapse. With regards to the GridWorX Viewer, Collapse does the same as CollapseAll and Expand does the same as ExpandAll.

The **ItemName** and **Index** properties of this command are not applicable to the GridWorX Viewer.

Group

The Group command adds or removes grouping for the GridWorX Viewer. The **Action** property determines whether groups are added or removed.

- **Action: New** – Removes any existing grouping and groups only by the specified column.
- **Action: Add** – Adds a new grouping level for the specified column.
- **Action: Reset** – Removes all grouping.

Use either the **ItemName** or **Index** properties to determine the column to group. ItemName is the name of the column you

would like to group. If no ItemName is specified, the Index is used.

Load DataGrid Configuration

The Load DataGrid Configuration command will load a pre-created GridWorX Viewer configuration into the targeted GridWorX Viewer.

Navigate

The Navigate command will navigate forward or back through the pages of the GridWorX Viewer when there is more than one page. The **Navigate** property determines how to navigate, and **Steps** determines how many pages to navigate.

- **Navigate: Back** – Go back one or more pages.
- **Navigate: Forward** – Go forward one or more pages.
- **Navigate: Home** – Go to the very first page.
- **Navigate: End** – Go to the very last page.
- **Navigate: Now** – This Navigate option is not applicable to the GridWorX Viewer.

Print

The Print command prints some or all of the GridWorX Viewer. **Area** determines whether you are printing the whole control or just the current view (grid or chart). **WhiteBackground** is not applicable to the GridWorX Viewer.

ShowPrintDialog will determine whether the printer dialog is shown, otherwise the default or specified printer and settings will be used and the print will happen immediately. **PrinterName** specifies a specific printer to use instead of the default.

NOTE: Both the ShowPrintDialog and the PrinterName parameters are ignored in Silverlight environments. The runtime print dialog will always be shown.

NOTE: The Print Configuration command is not supported in Windows RT or Windows Phone environments.

Refresh

The Refresh command causes the data to be refreshed in the GridWorX Viewer. This is the same as hitting the "Refresh" button in the GridWorX Viewer ribbon.

The **Area** parameter determines whether the entire control is refreshed or just the current view (grid).

Save Configuration



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The Save Configuration command will save the GridWorX Viewer configuration to the specified **FileName**. When **Overwrite** is True, an existing file with the specified name will be overwritten.

NOTE: No message will be shown if the specified file already exists and Overwrite is set to False. The save action will simply not do anything in that case.

NOTE: The Save Configuration command is not supported in Silverlight, Windows RT, or Windows Phone environments.

Select Element

The Select Element command allows you to change the tab or select a row of the GridWorX Viewer. **Element** specifies the whether you are selecting a tab, grid, or row. **ElementName** or **Index** are used to specify the particular tab, grid, or row to be selected.

- **Element: Tab** – Activates the specified tab.
- **Element: View** – Activates the specified grid. This command is most useful if you have more than one grid object within a GridWorX Viewer tab. The selected grid will receive any subsequent commands.
- **Element: Row** – Selects the specified row. Use Index to determine which row is selected.
- **Element: Object** – This Element option is not applicable to the GridWorX Viewer.

Set Filter

The Filter command will apply the selected filter or filter expression to the GridWorX Viewer, or remove all filters. The **Action** property determines what action is taken.

- **Action: Set** – Applies the configured filter or filter expression.
- **Action: Reset** – Remove all filters.

FilterName is the name of a pre-existing filter to apply. **FilterExpression** is the expression of a new filter to apply.

NOTE: Because this command can be applied to many different types of targets, the FilterExpression field provides no help and has no error checking for expressions. Unless you are very familiar with the syntax it's recommended that you use the filter editor within the GridWorX Viewer to compose your filter expressions, then copy and paste them into the FilterExpression field.

Set Freeze Mode

The Set Freeze Mode command is available only for GridWorX Viewers with SPC charts. It will freeze or unfreeze the SPC chart.

- **Action: Freeze** – Puts the SPC chart into freeze mode.
- **Action: Unfreeze** – Takes the SPC chart out of freeze mode.
- **Action: Toggle** – If the SPC chart is frozen, unfreeze it. If it's unfrozen, freeze it.

Set Global Aliases

The Set Global Aliases command sets global aliases for the targeted GridWorX Viewer. This command is most useful when used within PortalWorX or PortalWorX-SL to set global aliases for a GridWorX Viewer running within its own web part, otherwise it works the same as the standard Set Global Aliases pick action within GraphWorX64.

Set Time Range

The Set Time Range command is available only for GridWorX Viewers with SPC charts. It sets the **StartTime** and **EndTime** for the SPC chart range.

This command will automatically put the SPC chart into Freeze mode, if it is not already.

Set Visibility

The Set Visibility command allows you to hide or show columns in the GridWorX Viewer. For a GridWorX Viewer target, the **ObjectType** must be set to Column. Visual and Pen ObjectTypes do not apply to the GridWorX Viewer.

ObjectName is the name of the column whose visibility you want to change. If ObjectName is not specified, **Index** is used.

The **Visibility** property specifies whether you want the command to show the column, hide it, or toggle between hidden and shown.

Sort

The Sort command applies sorting to the specified column of the GridWorX Viewer. The **Action** property determines whether the command will replace existing sorting, add to it, or remove it.

- **Action: New** – Removes any existing sorting and sorts only by the specified column.
- **Action: Add** – Adds a new sorting level for the specified column.



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- **Action: Reset** – Removes all sorting.

Use either the **ItemName** or **Index** properties to determine the column to sort. ItemName is the name of the column you would like to sort. If no ItemName is specified, the Index is used.

The **Direction** property specifies whether to sort Ascending or Descending.

Commands Sent From GridWorX Viewer

Set Time Range

The Set Time Range command can actually be sent from a GridWorX Viewer to another control capable of receiving a Set Time Range command, like the TrendWorX64 Viewer.

No configuration is required on the GridWorX Viewer to prepare it to send a Set Time Range command.

To send a Set Time Range command, select any two date/time cells (use the Shift or Ctrl keys to select more than one cell), then right-click on the GridWorX Viewer, go to the Set Time Range sub-menu, and choose one of the objects in the list to send the time range.

The cells you select do not need to be in the same row or column, nor do they even need to be adjacent.



Figure 1 - Set Time Range command

NOTE: Remember that the CommandingEnabled property must be set for the target of this command, and that you can set the CommandingDisplayName property to your control with a friendly name for this menu.