



GENESIS64

TrendWorX64 Viewer Commanding



APPLICATION NOTE

September 2013

Description: Guide to using Commands with a TrendWorX64 Viewer.

OS Requirement: Vista x64/ Windows 7 x64/ Windows 8 x64/ Windows Server 2008 x64/ Windows Server 2008 R2 x64/ Windows Server 2012

General Requirement: Familiarity with the TrendWorX64 Viewer, Commanding in general and/or Enabling Commands through the Asset Navigator Control.

Introduction

Before the introduction of Commanding you were required to use scripting to interact with controls like the TrendWorX64 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 a TrendWorX64 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.

Commands for a TrendWorX64 Viewer Target

You can apply some of the commands that you have added to your assets in AssetWorX within Workbench-SL to a TrendWorX64 display in GraphWorX64 (but not to a display within the TrendWorX64 provider itself). For more information about adding commands to assets in AssetWorX, open Workbench SL and consult the "Setting up Commands for Runtime Navigation" topic in that help file.

For guidelines on adding Commanding functionality to a display without using the AssetWorX Navigator provider, see the "Commanding" topic in that help file. If you would like to apply commands to a TrendWorX64 Viewer display using the drag & drop functionality of an AssetWorX Navigator provider, see the "Enabling Commands through the Asset Navigator Control" topic in that help file.

Commands Supported by TrendWorX64 Viewer Displays

A TrendWorX64 Viewer display in GraphWorX64 supports the following commands:

Create Pen Command

The Create Pen command adds a new pen into a target TrendWorX64 Viewer using the following parameters. You can create this command within the GraphWorX64 Viewer and Asset Navigator controls. This command will be applied to the target TrendWorX64 Viewer control.

Parameters for the Create Pen command are:

- **DragDrop** - Set to whether or not drag/drop behavior is applicable to this command.
- **Name** - This is the value assigned to TwxChartPen.Name and used in XAML/WPF namespace for identifying display elements.
- **PointName** - The data source (i.e localsim:sine)
- **Description** - The description for the pen, typically displayed in the viewer's legend, tooltips and other GUI elements. The description can contain an alias.
- **Parameters** - Typically empty, this string can optionally specify a sequence of custom settings related to aggregate in use, buffer size, and so on. The syntax has to be the same as the DataConnectorConfiguration.RawData property serialized in TrendWorX64 displays, for example: "accesslevel=13;usagetype=2;usedatachangefilter=False;deadbandtype=0;deadbandvalue=0;aggregatetype=Interpolative;rawreadmodified=False;maxsamplesforrawdata=1500;datasetvaluecolumn=1;datasettimestampcolumn=0;usedatasetstatuscode=False;datasetstatuscodecolumn=2;maxsamplesfordataset=1500;"
- **Target** - Enter the registered name of the target control.

Delete Pen Command

The Delete Pen command will remove a pen from a TrendWorX64 Viewer. This command requires a target which can be a TrendWorX64 Viewer in GraphWorX64 or PortalWorX-SL. The name of the pen and the target viewer are the parameters for this command. You can create this command within the GraphWorX64 Viewer and Asset Navigator controls. This command will be applied to the target TrendWorX64 Viewer control.

Parameters for the Delete Pen command are:

- **DragDrop** - Set to whether or not drag/drop behavior is applicable to this command.
- **Name** - Name of the Pen to be removed. Named Pens will be bold in the TrendWorX64 Configuration.
- **Index** - Valid if empty.
- **Target** - Registered name of the target control.



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Export Image Command

You can create this command within the GraphWorX64 Viewer and Asset Navigator controls. This command will be applied to the target TrendWorX64 Viewer control.

Parameters for the Export Image command are:

- **DragDrop** - Set to whether or not drag/drop behavior is applicable to this command.
- **File Name** - Enter the file name or a URL.
- **Area** - Use the pulldown menu to select either the EntireControl or CurrentView.
- **Unit** - Use the pulldown to select from None, Percentage, Scale or Level.
- **Zoom** - Enter the preferred zoom level (by percentage).
- **Target** - Registered name of the target control.

Export Statistic Command

The Export Statistic command just shows the Export Statistics dialog using default options (no intermediate dialog is displayed). The parameter ReportName is currently unused as the report doesn't provide a dedicated field. You can create this command within the GraphWorX64 Viewer and Asset Navigator controls. This command will be applied to the target TrendWorX64 Viewer control.

Parameters for the Export Statistic command are:

- **DragDrop** - Set to whether or not drag/drop behavior is applicable to this command.
- **ReportName** - Currently unused as the report doesn't provide a dedicated field.
- **Target** - Registered name of the target control.

Load Trend Configuration Command

The Load Trend Configuration command opens a TrendWorX trend file inside a TrendWorX64 Viewer when a runtime user selects the menu option. You can create this command within the GraphWorX64 Viewer and Asset Navigator controls. This command will be applied to the target TrendWorX64 Viewer control.

Parameters for the Load Trend Configuration command are:

- **DragDrop** - Set to whether or not drag/drop behavior is applicable to this command.
- **File Name** - The TrendWorX64 Viewer display file to open when a runtime user selects this menu item. Enter a valid, correct URL path for the TrendWorX64 viewer file [OR a Viewer Silverlight file (a .twxxs file)] to be loaded. For example, the URL for a display file might be:

<http://MachineName/GENESIS64/WebSites/PubDisplay/Trend1.twxxs>

- **Global Aliases** - The global alias settings (if any) that are used in the TrendWorX display. Click the ellipsis button [...] to select the theme and global aliases.
- **Target** - Registered name of the target control.

Navigate Command

You can create this command within the GraphWorX64 Viewer and Asset Navigator controls. This command will be applied to the target TrendWorX64 Viewer control. Note that you can apply only the Back and Forward navigation types to a TrendWorX64 Viewer control and you need to apply this command to grids within the TrendWorX64 Viewer controls.

Parameters for the Navigate command are:

- **DragDrop** - Set to whether or not drag/drop behavior is applicable to this command.
- **NavigationType** - Enter the destination (Back, Forward).
- **Steps** - Enter the number of iterations.
- **Target** - Registered name of the target control.

Print Command

You can create this command within the GraphWorX64 Viewer and Asset Navigator controls. This command will be applied to the target TrendWorX64 Viewer control.

Parameters for the Print command are:

- **DragDrop** - Set to whether or not drag/drop behavior is applicable to this command.
- **Area** - Use the pulldown menu to select whether the Entire Control or Current View is to be printed.
- **WhiteBackground** - Click this checkbox to ensure a white background for the printed material.
- **Target** - Registered name of the target control.

Save Configuration Command

You can create this command within the GraphWorX64 Viewer and Asset Navigator controls. This command will be applied to the target TrendWorX64 Viewer control.

Parameters for the Save Configuration command are:

- **DragDrop** - Set to whether or not drag/drop behavior is applicable to this command.
- **FileName** - Enter the URL or file name here.
- **Overwrite** - Click this checkbox to allow any existing file with the same file name to be overwritten.
- **Target** - Registered name of the target control.



Select Element Command

You can create this command within the GraphWorX64 Viewer and Asset Navigator controls. This command will be applied to the target TrendWorX64 Viewer control. Note that you can apply only the Tab and View element types within the TrendWorX64 Viewer controls.

Parameters for the Select Element command are:

- **DragDrop** - Set to whether or not drag/drop behavior is applicable to this command.
- **Element Type** - Use the pull-down menu to select from Tab and View.
- **Name** -
- **Index** -Valid if empty.
- **Target** - Registered name of the target control.

Set Freeze Mode Command

You can create this command within the GraphWorX64 Viewer and Asset Navigator controls. This command will be applied to the target TrendWorX64 Viewer control.

Parameters for the Set Freeze Mode command are:

- **DragDrop** - Set to whether or not drag/drop behavior is applicable to this command.
- **Frozen** - Click on the checkbox to freeze the selected item.
- **Target** - Registered name of the target control.

Set Time Range Command

You can create this command within the GraphWorX64 Viewer, and Asset Navigator controls. This command will be applied to the target TrendWorX64 Viewer control.

Parameters for the Set Time Range command are:

- **DragDrop** - Set to whether or not drag/drop behavior is applicable to this command.
- **Start Time** -
- **End Time** -
- **Target** - Registered name of the target control.

Set Visibility Command

You can create this command within the GraphWorX64 Viewer and Asset Navigator controls. This command will be applied to the target TrendWorX64 Viewer control.

Parameters for the Set Visibility command are:

- **DragDrop** - Set to whether or not drag/drop behavior is applicable to this command.
- **Object Type** -Use the pulldown menu to select from Visual, Pen or Column.
- **Name** -
- **Index** -Valid if empty.
- **VisibilityType** -Use the pulldown menu to select from Show, Hide or Toggle.
- **Target** - Registered name of the target control.