



TrendWorX64 Viewer

Ease of Use Features



APPLICATION NOTE

October 2015

Description: Introduction to the ease of use features of TrendWorX64 Viewer.

Introduction

TrendWorX64 Viewer 10.90 introduces new features to make it more user friendly and simplifies configuration to reduce work. The following enhancements are available during configuration and runtime modes.

- Configuration
 - New Configuration Ribbon
 - Improved Advanced Configurator
 - Drag and Drop
- Runtime
 - Time Alignment Ease of Use
 - Performance Improvement Sample Adjustment

New Configuration Ribbon

The ribbon reduces number of actions and clicks to configure the control. When we click on TrendWorX Viewer control we get two ribbons which are charts and pens.

Chart Ribbon

- Configuration section of Chart ribbon allows to save and load existing TrendWorX Viewer configurations.
- The Toolbar drop-down list in control section allows you to specify the toolbar's location at runtime. The available options are None, Floating, Top, Left, Right and Bottom.
- The Chart section contains most of common chart properties. We can set Styles (Light, Dark, and Color), change colors for Chart Area, Plot Area and Plot Border. Axis icon allows to toggle X and Y Axis. Cursor drop down allows to toggle two cursors, change cursor properties. Elements section determines the plotting behavior of Bad and Uncertain quality data and also show operator comments.

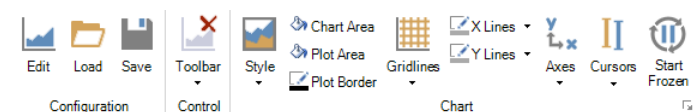


Figure 1 - Chart Ribbon

- Gridlines section allows you to toggle X and Y gridlines and set styles and width of these gridlines.
- X Axis section allows to set Trend period, toggle Automatic Alignment and set style for X Axis.

- Y Axis section toggles Global Ranges and sets Styles when Global range is set.

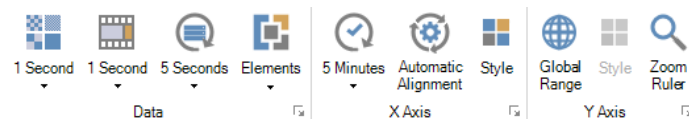


Figure 2 - Data and Axis sections

- Summary section displays a summary plot underneath the trend plot that shows values during the entire time that data is being collected. The Summary View shows only in Freeze mode. Summary drop down menu specifies the position of this view (Top or Bottom). You can set Shading and Handles colors. Snap mode toggles summary cursor and scrollbar to tick marks.
- Legends section of toolbar allows to configure legend section. Legend drop down allows to Show or hide the legend and position the legend. Background icon allows to set color of legend area. Rows drop down icon allows to set Header and Rows background and text color. Selection drop down sets Active and Inactive selected row background and text color. Column drop down sets columns to display in legend area.

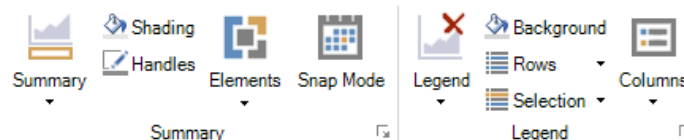


Figure 3 - Summary and Legend sections

Pens Ribbon

- Pens section of ribbon allows to select, add, and delete pens from TrendWorX Viewer. Pens drop down allows to select a pen. New drop down allows to add pens without a data source OR to add a pen using data browser. Delete button deletes the selected pen.
- The Plot section is used to configure sample plot types that you could use for your trend display. The Type icon is used to set pens in the plot as Line, Spline, Step and Bars types. The Filled icon toggles filling of area under Line, Spline and Step types of plot.
- Style section sets visual effects of each pen. You can set Stroke color, Fill color, and Line pattern of selected pen. The Elements drop down can be used to override plotting of Bad and Uncertain quality data for selected pen.
- Axis section allows to set Range and Style for the range. The Range drop down sets range using Server Defined,



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Auto Scale or Custom. The Style sets appearance, title, tick marks, and label for pen range.

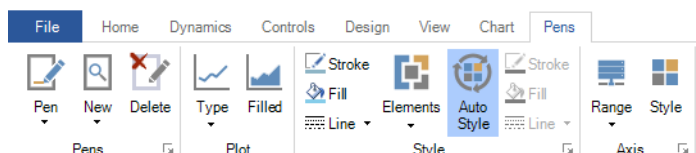


Figure 4 - Pens Ribbon

Improved Advanced Configurator

At bottom right corner of each section of toolbar contains small icon which can be used to quickly open advanced options. The example below shows accessing advanced options for Chart section.

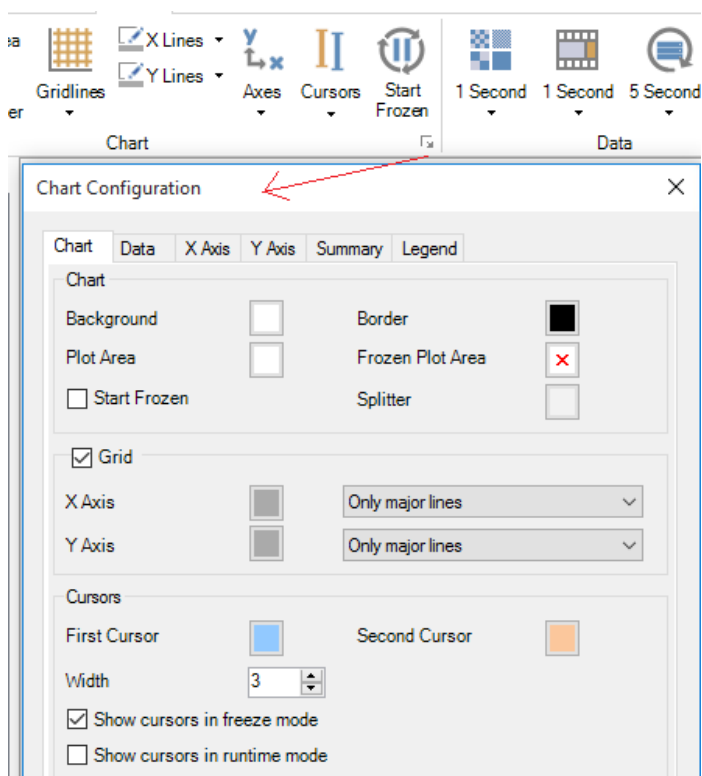


Figure 5 - Chart Configuration

Drag and Drop

TrendWorX Viewer support Drag and drop configuration using new data browser. You can select tags from Data Browser and drag them to TrendWorX Viewer.

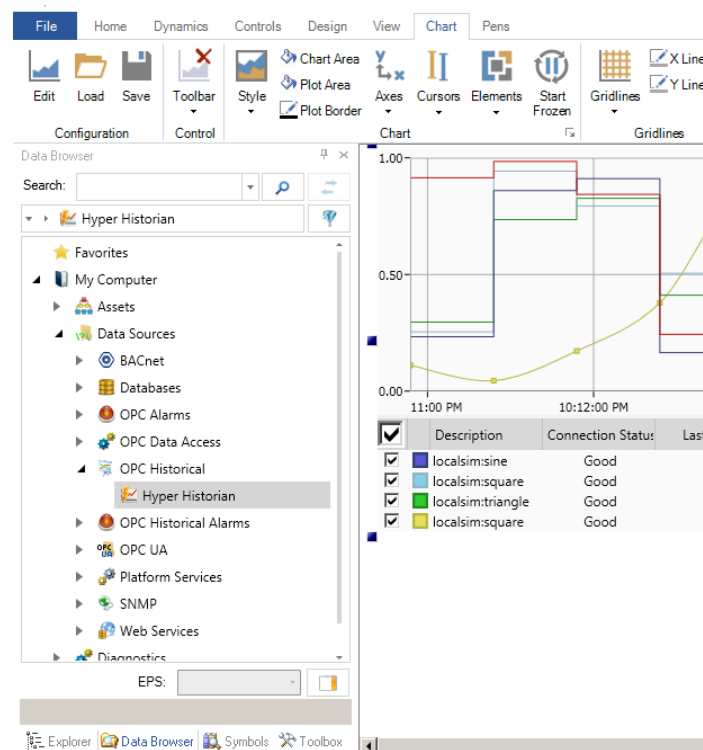


Figure 6 - Drag and Drop using the Data Browser

Time Alignment Ease of Use

Time Alignment feature allows Chart range to be aligned to specific period i.e. weeks, months or years.

Chart period can be configured as multiple of time units i.e. 3 months. So in this case TrendWorX Viewer will show exactly 3 months of data and will automatically adjust number of days in each month.

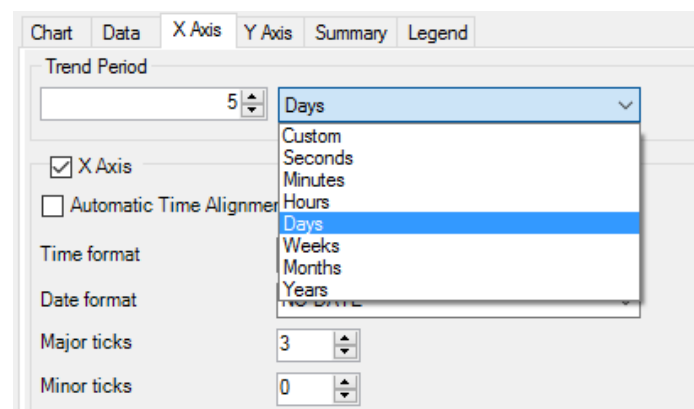


Figure 7 - Choosing a trend period



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We can also align Tick marks (X Gridlines) chart labels so they show exactly on set interval. We can also set base tick mark time. For example if we set Tick Interval to one day and want to see data exactly at 8:00 AM then we can setup Trend as below:

Chart Data X Axis Y Axis Summary Legend

Trend Period

5 Days

☒ X Axis

☐ Automatic Time Alignment Style...

Time format Long time

Date format NO DATE

Major ticks 3

Minor ticks 0

☒ Time Alignment

1 Days

☒ Base Alignment 08:00:00

☐ Trend Period Toolbar

30 Minutes (30 Minutes)

1 Hour (1 Hour)

2 Hours (2 Hours)

Add Remove

Figure 8 – Aligning the X axis with a particular time

The Trend will now look as below.

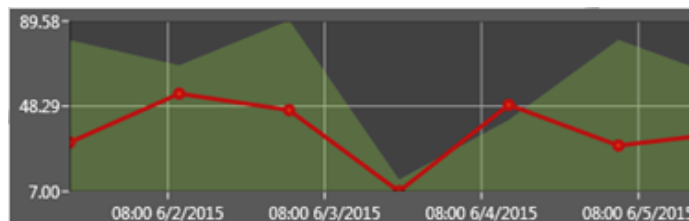


Figure 9 - Aligned Trend Viewer

You do not need to manually configure Time Alignment settings and can use Automatic Time Alignment option to allow TrendWorX Viewer control to determine best Time Alignment settings for you. These settings will be based on Trend Period.

Chart Data X Axis Y Axis Summary Legend

Trend Period

5 Days

☒ X Axis

☒ Automatic Time Alignment Style...

Time format Long time

Date format NO DATE

Figure 10 - Automatic Time Alignment