

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

Introduction

This document describes features of the TrendWorX64 Viewer designed to make it more user friendly and simplify the 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 TrendWorX64 Viewer control we get two ribbons, charts and pens.

Chart Ribbon

- The Configuration section of Chart ribbon allows you to save and load existing TrendWorX64 Viewer configurations.
- The Chart section contains the most common chart properties. We can set styles, toggle X and Y axis and configure gridlines visibility.
- In the Pens section, you can control visibility of samples tooltips and operator comments.

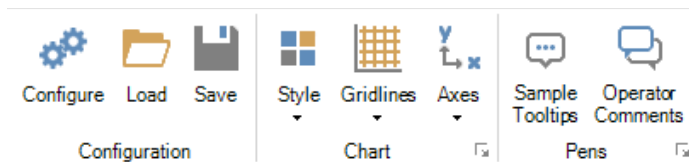


Figure 1 - Chart Ribbon

- The Data section lists common time range and sampling interval settings. You can also toggle the Time Zones Alignment.

- In the Range section, you can set the chart to start in Freeze Mode, configure time range and optionally enable sharing of time range with other controls and charts

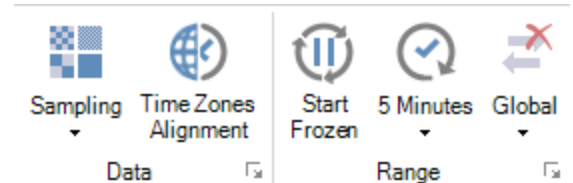


Figure 2 – Data and Range sections

- The X Axis section allows enabling Automatic Alignment and setting the style for the X Axis.
- The Y Axis section toggles the Shared Axis and configures its style.
- In the Cursor section, you can configure the style and visibility of runtime cursors, enable cursor tooltips and optionally enable sharing of cursor position with other TrendWorX64 Viewer controls



Figure 3 – X Axis, Y Axis and Cursors sections

- The Summary section displays a summary plot underneath the trend plot that shows values for a large period of time. The Summary View shows only in Freeze mode. The Position drop down menu lets you specify the position of this view (top or bottom). Snap mode toggles the snap of the summary cursor and scrollbar to tick marks.
- The Legend section of toolbar allows to configure the legend. The position drop down allows you to show or hide the legend and choose its location. The column drop down sets columns to display in the legend area.

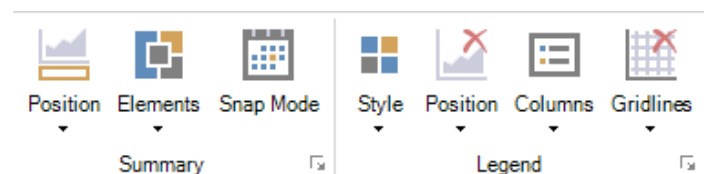


Figure 4 - Summary and Legend sections

Pens Ribbon

- The pens section of ribbon allows to select, add, and delete pens from the TrendWorX64 Viewer. The Pens dropdown allows to select an existing pen. The New dropdown allows you to add pens without a data source or to add a pen using data browser. The 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.
- The 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.
- The Axis section allows you to set the range and style of the axis. The Range dropdown sets the range using Server Defined, Auto Scale or Custom. The Style sets appearance, title, tick marks, and label for pen range.

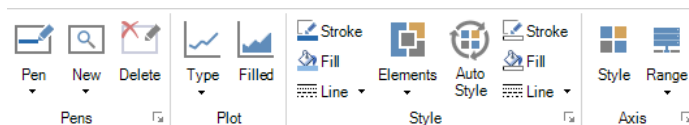


Figure 5 - Pens Ribbon

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.

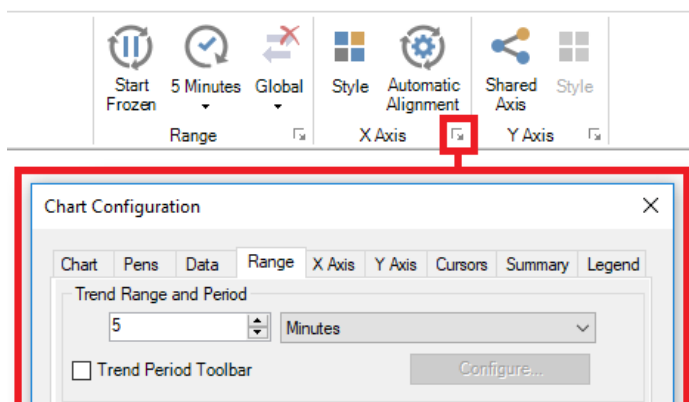


Figure 6 – Opening Configuration dialog from Ribbon

Drag and Drop

The TrendWorX64 Viewer supports drag and drop configuration from the data browser. You can select tags from Data Browser and drag them to a TrendWorX64 Viewer to add them as a pen.

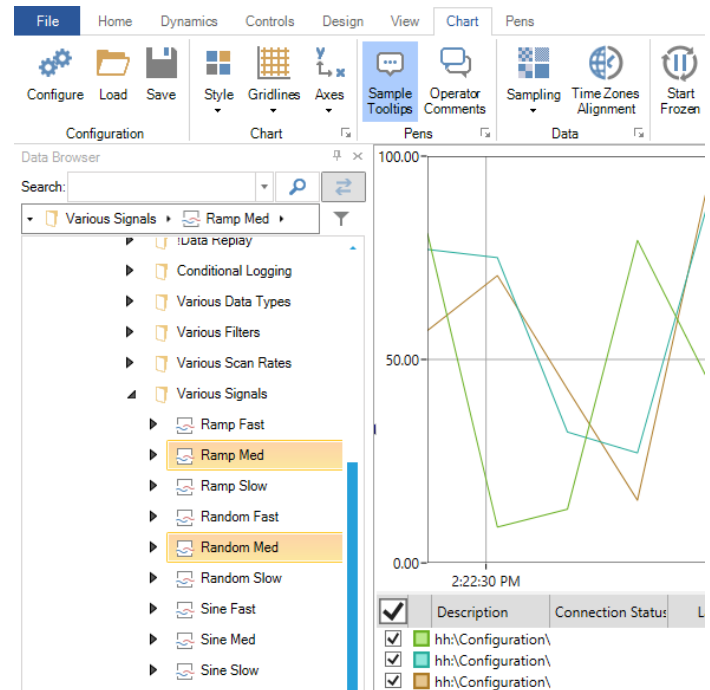


Figure 7 - Drag and Drop using the Data Browser

Time Alignment Ease of Use

The Time Alignment feature allows the chart range to be aligned to specific even periods, such as weeks, months or years.

The chart period can be configured as multiple of time units i.e. 3 months. So in this case TrendWorX64 Viewer will show exactly 3 months of data and will automatically adjust for the number of days in each month.

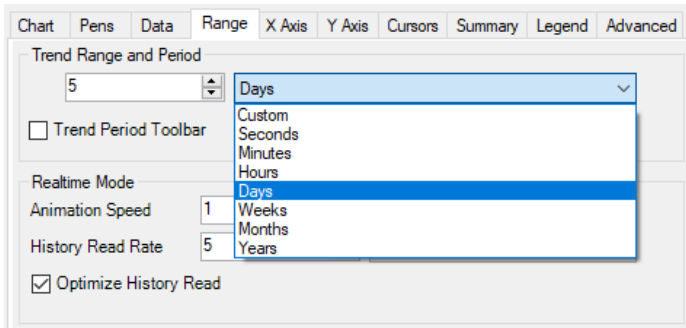


Figure 8 - Choosing a trend period

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:

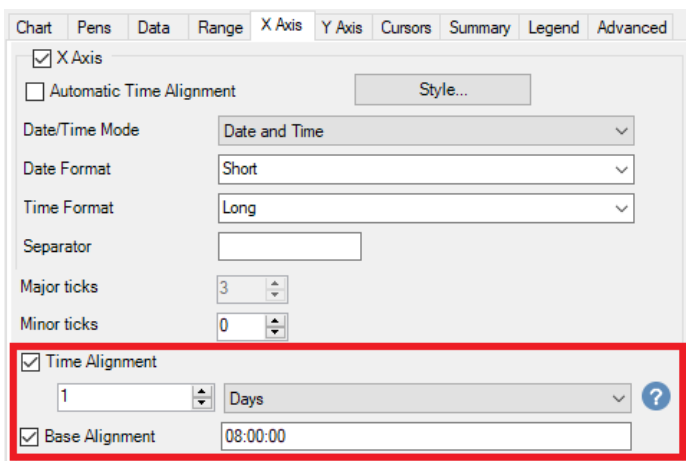


Figure 9 – Aligning the X axis with a particular time

The Trend will now look as below.

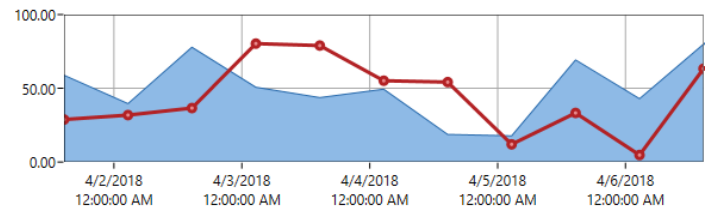


Figure 10 - Aligned Trend Viewer

You do not need to manually configure Time Alignment settings and can use Automatic Time Alignment option to allow TrendWorX64 Viewer control to determine best Time Alignment settings for you. These settings will be based on Trend Period.

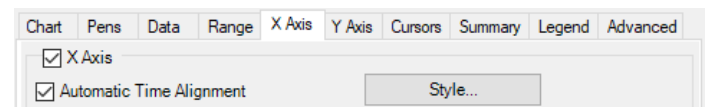


Figure 11 - Automatic Time Alignment