

Description: This application note explains how to use runtime features of the TrendWorX64 Viewer, including Summary Chart, Freeze Mode, and Snap Mode.

General Requirement: TrendWorX64 Viewer with at least one pen already added and configured.

Introduction

This application note will walk you through a few helpful features of the TrendWorX64 Viewer for use in runtime. It will describe how to configure the Summary Chart (which can give you a broad overview of data you've logged for easy navigation), adding a button to toggle Freeze Mode, and configuring Snap Mode, which allows you to make more precise time range selections.

Summary Chart

Before you start to use the Summary Chart, you need to configure at least one historical pen in TrendWorX64 Viewer (for more details, please see the application note *TrendWorX64 Viewer – Getting Started*). Once you have a pen configured, you can follow these steps:

1. Add a new TrendWorX64 Viewer into display and select it to show its configuration ribbon
2. Click on the Position under Summary in the ribbon and select either Top or Bottom position:

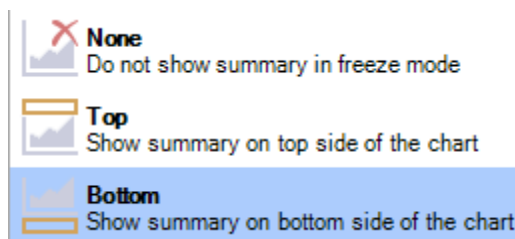


Figure 1 – Summary Chart Position

3. Select Summary Chart elements you want to see in runtime:

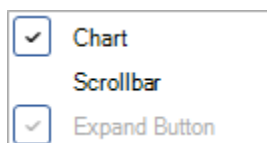


Figure 2 – Summary Chart Elements

4. For advanced configuration, click the dialog launcher in bottom-right corner of Summary chart section:

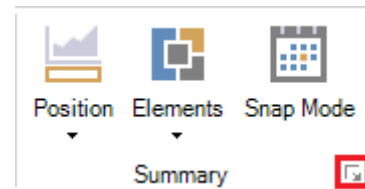


Figure 3 – Open advanced configuration

5. Finally, configure the chart to start frozen:

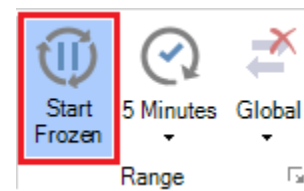


Figure 4 – Start Frozen option

6. Switch to **Runtime** mode.
7. Wait a few moments to retrieve the historical data from the server.

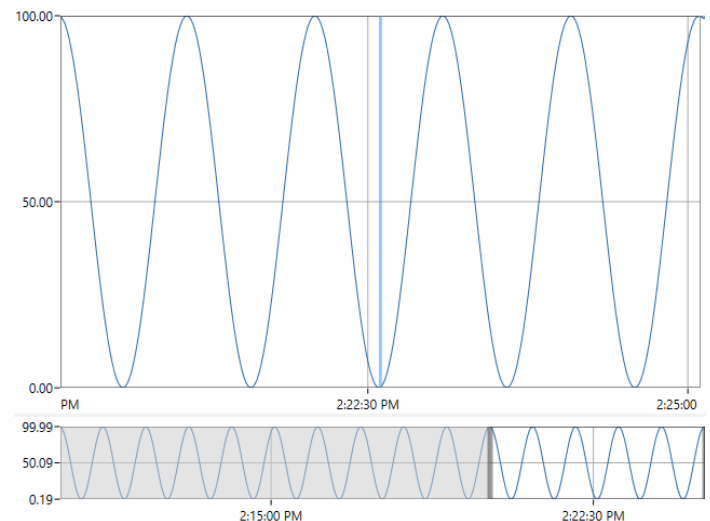


Figure 5 - Summary Chart in Freeze Mode

You can drag the white area in Summary chart to change the actual time range of the main chart. You can also pan the dimmed area to change the time range of the Summary chart.

Toggle Freeze Mode Button

1. Switch back to **Configure** mode.
2. Select the TrendWorX64 Viewer and set its **CommandingName** to "twx1".

▼ Misc - Commanding	
CommandingEnabled	True
DragAndDropCommandingEni	True
CommandingName	twx1
CommandingDisplayName	
MaxCommandScope	Process

Figure 6 – Commanding Name

3. Add a new button into the display.
4. Configure the **Command** to be "Set Freeze Mode" command, the **Action** parameter to "Toggle" and the **Target** to "twx1":

Command	Set Freeze Mode
▼ CommandParameters	
DragDrop	False
Action	Toggle
Target	twx1

Figure 7 – Set Freeze Mode command

5. Switch to **Runtime** mode.
6. Clicking the button will toggle Freeze Mode on TrendWorX64 Viewer.

Snap Mode

Snap mode feature allows for easier and precise time range selection in the main chart.

1. Configure the chart to Start Frozen (see **Figure 4**)
2. Turn on Automatic Time Alignment of tick marks:

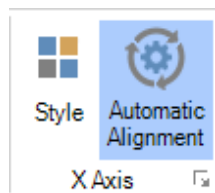


Figure 8 – Automatic Alignment of tick marks

3. Enable Snap Mode:

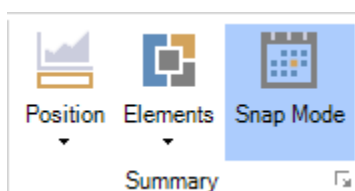


Figure 9 – Summary Chart Snap Mode

4. Switch to **Runtime** mode.

Now in runtime mode, you can select a time range by clicking on the summary panel. When dragging the white area in summary chart, the control will always snap to closest tick mark.

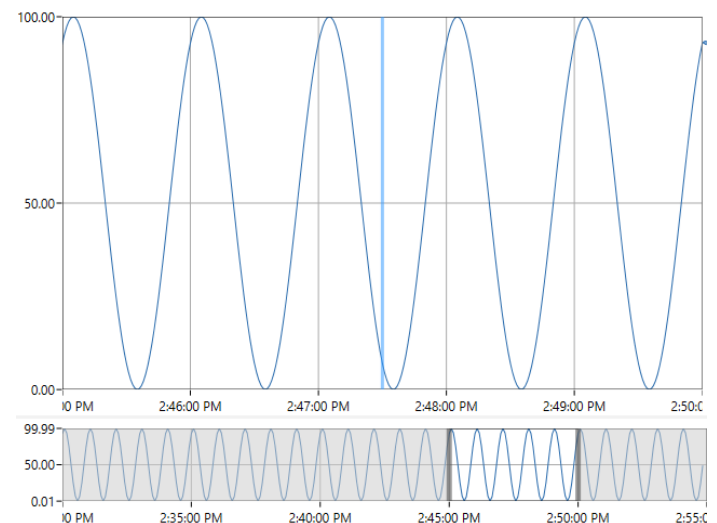


Figure 10 – TrendWorX64 Viewer and Snap Mode

5. Switch back to **Configure** mode and select "Daily data" from Sampling on the configuration ribbon:

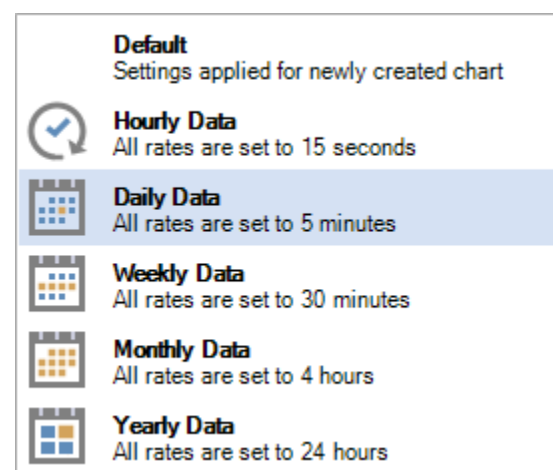


Figure 11 – Common time ranges

- Open the advanced configuration of X Axis from ribbon and change the settings as shown on **Figure 12**:

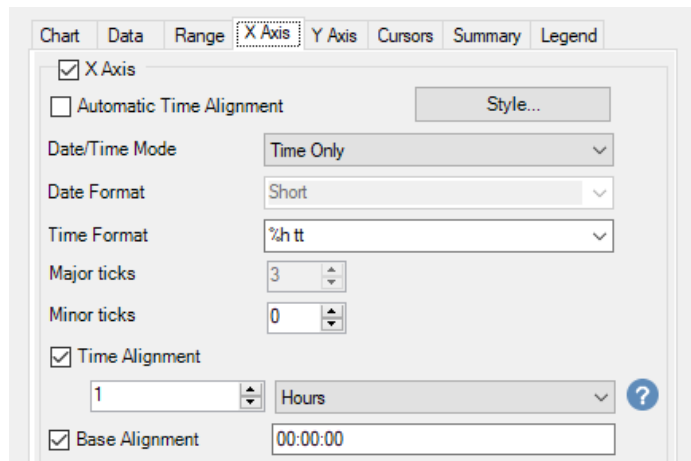


Figure 12 – X Axis advanced configuration

- Open the advanced configuration of Summary Chart from ribbon and change the settings as shown on **Figure 13**:

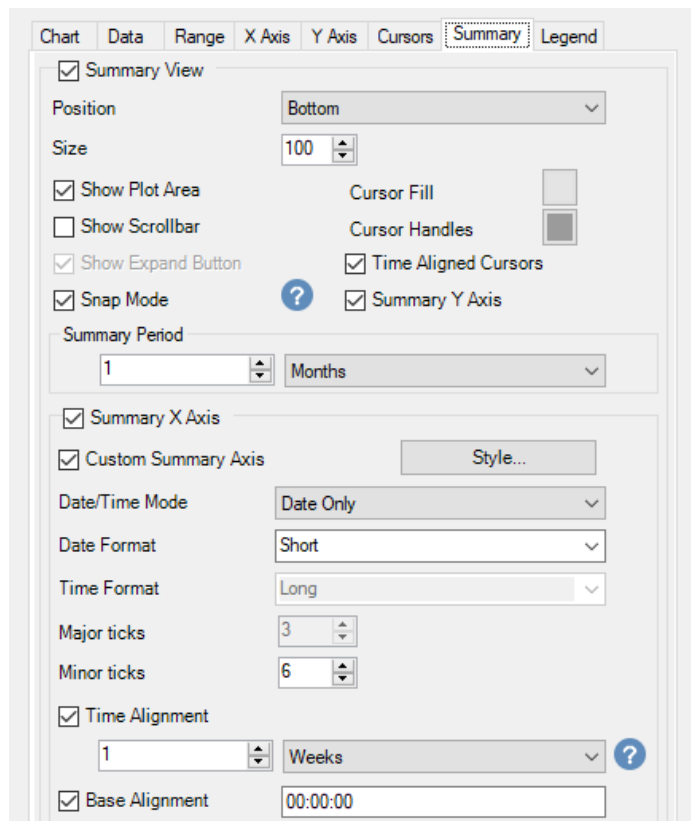


Figure 13 – Summary Chart advanced configuration

- Switch to **Runtime** mode.
- The selected area in Summary chart now snaps to days. Summary chart shows a month of data and the summary time axis has major tick marks every week.

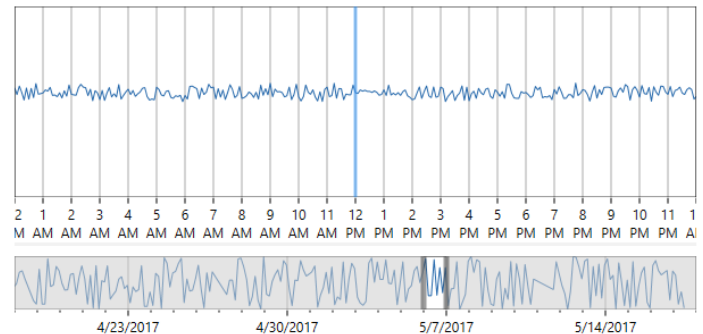


Figure 14 – Daily chart with monthly summary