TrendChart Custom Samples Example

Feed custom data into trends.

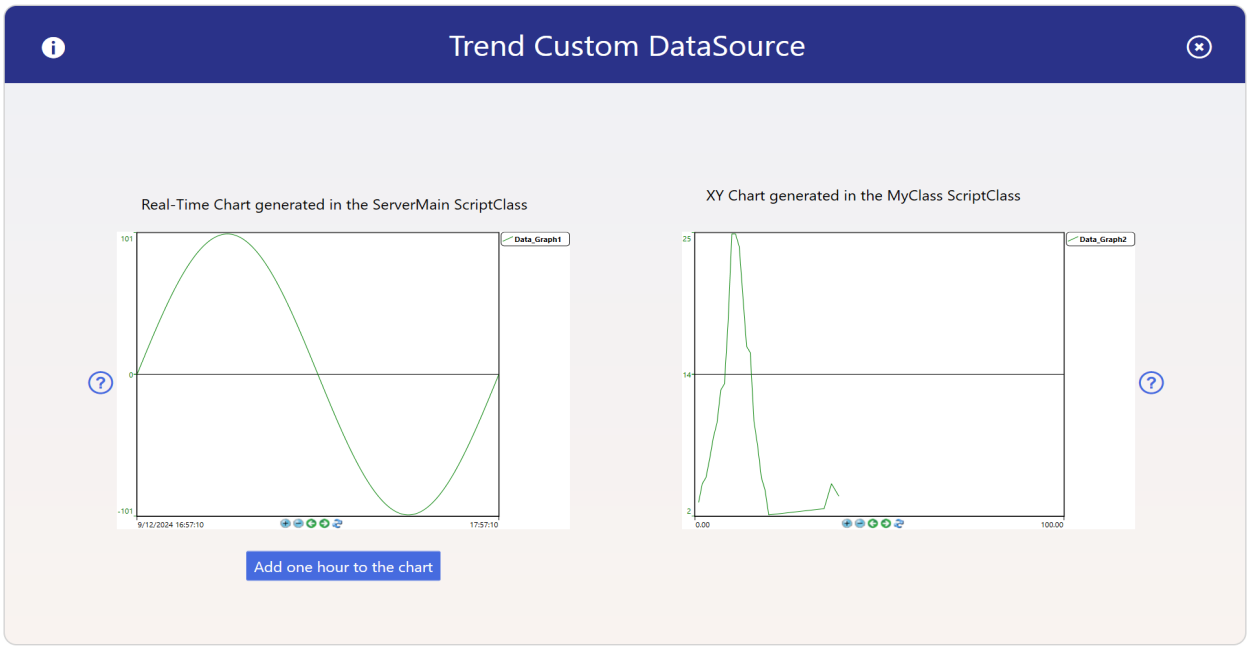
This example shows how to use TrendCharts, and solutions on basic archiving, creating and charting of Data.

Solution file: TrendChart Custom Samples Example.dbsln

Database file: TrendChart Custom Samples Example.db

Summary

This example shows how to use TrendCharts, and solutions on basic archiving, creating and charting of Data.



Technical Information

When creating a TrendChart, you can associate a HistorianTag with a HistorianTable to supply data points. This configuration is done through the Historian section. These tables can either receive data from databases accessed via software platform or from a script within a script class, accessible under Scripts / Classes.

In this example, the `GetSamples` method is applied in two different ways:

1. In the `ServerMain` ScriptClass, the method is used to create a custom signal and send it to the historian for plotting.
2. In the `MyClass` ScriptClass, the method is used to retrieve data stored in a table within a database, which is then sent to the historian for plotting.

When creating a TrendChart, if you have data logging set up in software platform (via HistorianTags) or if you're using software platform with the AVEVA PI System, the system will automatically search for archived data to plot.

If you want to use data other than what the system archives by default, you have two options:

- Populate the historian archive (Microsoft SQL, or other databases, including the PI System) from another application.
- Customize the `GetSamples` method used by the TrendChart, as demonstrated in the `ServerMain` and `MyClass` ScriptClasses

In this section...