



Data Explorer Quick Start



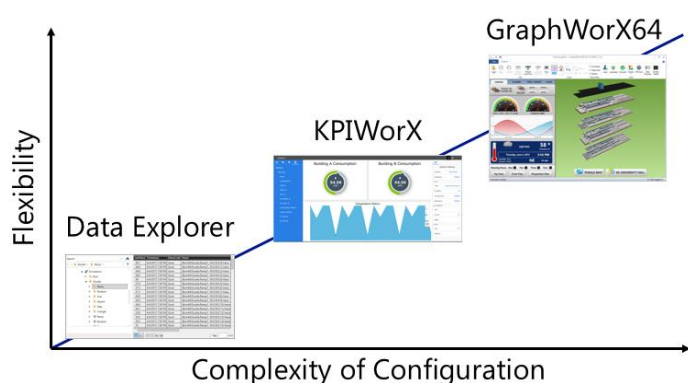
APPLICATION NOTE

October 2015

Description: Introduction to the Data Explorer.

Introduction

The Data Explorer is a utility that can allow you to quickly discover, browse, and view information across your entire enterprise without configuring any displays or applications. It is the simplest but least flexible option on the scale of data presentation options in GENESIS64.



The Data Explorer is essentially a data browser combined with an optimized view of the selected data. For instance, when selecting DA tags you are given a grid of the tags, their values, qualities, etc. When selecting HDA tags you are given a trend viewer.

Launching Data Explorer

There are several ways to launch the Data Explorer from GraphWorX. If the runtime ribbon is visible, select the Data Explorer item from the Tools ribbon.

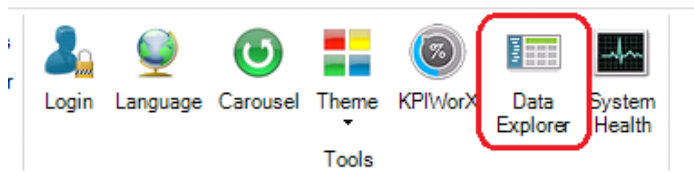


Figure 1 - Runtime ribbon

You can launch the Data Explorer in runtime using the F8 key.

You can also launch the Data Explorer using a pick action. Add a button or pick action to your display and choose "Runtime Menu Command", then pick "Tools – Data Explorer" as the command.

The Data Explorer can also be launched as a standalone utility from the start menu in the ICONICS → Tools folder.

Selecting Data

Selecting data to view in the Data Explorer is simple. Navigate the data browser and select one or more tags to view. You can select a single tag, an entire folder, or use the Ctrl or Shift keys to select groups of tags. The selected tags will appear in the section on the left.

For example, browse to My Computer → Data Sources → OPC Data Access → Simulations and select the Float folder.

LastValue	Timestamp	StatusCode	Name
78.75	6/19/2015 7:23 PM	Good	@sim64:Float.Ramp(Period[sec],Min,Max,Phase[deg]).Value
90.5118	6/19/2015 7:23 PM	Good	@sim64:Float.Random(Period[sec],Min,Max,Phase[deg]).Value
-9.7237	6/19/2015 7:23 PM	Good	@sim64:Float.Sine(Period[sec],Min,Max,Phase[deg]).Value
100	6/19/2015 7:23 PM	Good	@sim64:Float.Square(Period[sec],Min,Max,Phase[deg]).Value
0	6/19/2015 7:21 PM	Good	@sim64:Float.Static("Static").Value
88.88889	6/19/2015 7:21 PM	Good	@sim64:Float.Step(Period[sec],Min,Max,#Steps,Phase[deg]).Value
42.5	6/19/2015 7:23 PM	Good	@sim64:Float.Triangle(Period[sec],Min,Max,Phase[deg]).Value

Figure 2 - Exploring DA data

NOTE: The first time you select a type of tag it may take some time to load the appropriate viewer, but once that viewer is loaded it is cached by the Data Explorer, and will be usable quicker the next time you select that same type of data.

The Data Explorer can visualize the following types of data points:

- Live Data (grid view or trend viewer)
- Historical Data (trend viewer or grid view)
- Alarm Data (alarm viewer)
- Schedule Data (schedule viewer)
- Datasets (grid view)
- Asset tags (asset-optimized grid view)
- BACnet tags (BACnet-optimized grid view)

If you select more points than can be displayed on a single page, page forward and page backward buttons will appear on the bottom of the viewing area.

If your data can be visualized in different ways (for instance, DA tags can be seen in a grid view or a trend viewer) buttons to switch the view will appear on the bottom of the viewing area.



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LastValue	Timestamp	StatusCode	Name
78.75	6/19/2015 7:30 PM	Good	@sim
1.498459	6/19/2015 7:30 PM	Good	@sim
-9.7237	6/19/2015 7:30 PM	Good	@sim
100	6/19/2015 7:30 PM	Good	@sim
0	6/19/2015 7:21 PM	Good	@sim
88.88889	6/19/2015 7:21 PM	Good	@sim
42.5	6/19/2015 7:30 PM	Good	@sim

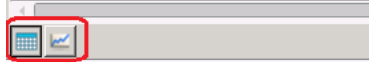


Figure 3 - Change view buttons

The Data Explorer has a responsive interface. It loads its data asynchronously, so you can change the selection before the data has finished loading, canceling the previous selection.

Licensing

Points viewed in the Data Explorer will consume GENESIS64 tags as if the same data were being viewed in GraphWorX. Licenses are also required for the various viewers used. For instance, using a trend viewer will require a TrendWorX64 Client Station license.