GraphWorX64
Using the Symbols Library

APPLICATION NOTE

September 2013

Description: Guide to using the symbols library, including how to create, insert and reuse symbols.
OS Requirement: Windows Vista x64/ Windows 7 x64/ Windows 8 x64/ Windows Server 2008 x64/ Windows Server 2008 R2 x64 / Windows Server 2012
General Requirement: Understanding of GraphWorX64

Introduction

The Symbols Library provides a way for users to quickly build GraphWorX64 displays. Within the Symbols Library, you will find smart symbols. They contain built-in dynamics that you can add any combination of OPC Tags, local aliases, expressions, global aliases, or shapes. The symbols can be anything from a simple switch that turns green on true and red on false, to a complicated panel full of switches, dials, and sensors representing a control device on your manufacturing floor.

You can significantly reduce development time by using the Symbols Library. This document will walk you through the steps of creating a new library, inserting symbols into the library, and re-using existing symbols.

Using the Symbols Library

1. Start by opening a new GraphWorX64 display from Start → All Programs → ICONICS → GENESIS64 → GraphWorX64 → GraphWorX64.
2. By default, the Symbols Library should be displayed on the left side of the display. If you do not see the Symbols Library, go to View and check the box next to Symbols to Show the Symbols Library.
3. From the dropdown list, there are already several folders of premade symbols.

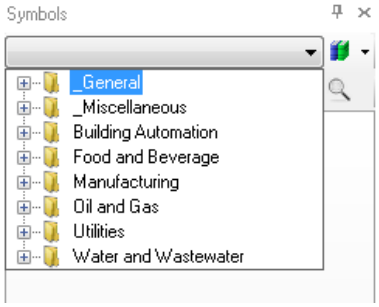

Figure 1 – Included Symbols

4. For example, you can select General, then Gauges, and then "2D_Gauges". This will reveal over 50 gauges for you to drag and drop onto your display.
5. Click and drag a gauge symbol on to your display. With the newly placed gauge selected you can view its Smart Properties from the Properties toolbar on the right.

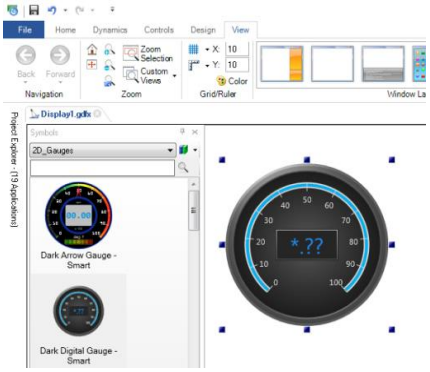

Figure 2 – Adding a Symbol to your display

6. The Smart Properties allow you to change the colors of each component in the gauge, as well as its data source.

   NOTE: For more information about Smart Symbols and their properties, please refer to the *GraphWorX64 – Smart Symbols* application note.

Creating a New Symbols Library

1. Start by opening a new GraphWorX64 display from Start → All Programs → ICONICS → GENESIS64 → GraphWorX64 → GraphWorX64.
2. Make sure the Symbols Library is shown.
3. Click on the button on the top right of the Symbols Library to show a drop down menu.
4. Select Add New Category from the list. The Category Properties dialog will appear.

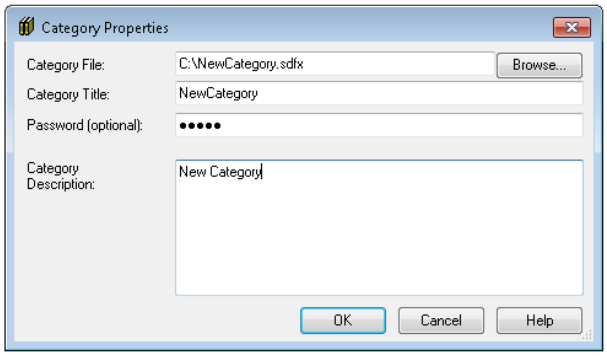

Figure 3 – Category Properties Dialog for a new Category

NOTE: Please notice that ICONICS Symbol Library is located here: C:\Program Files\ICONICS\GENESIS64\Symbols\.

5. Select Browse… and locate where you would like to save the new Category. It will be saved as an .sdfx file.
6. Enter the Category Title and an optional Category Description and Password if desired.
7. You will be brought directly to your new Category after clicking OK the Category Properties dialog box.

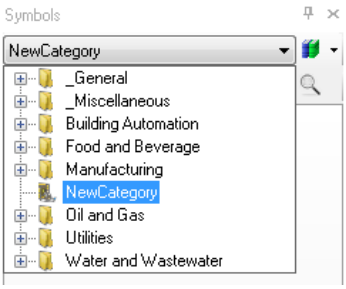

Figure 4 – Symbols Library with new Category

8. After you have created your own Smart Symbols or edited existing Symbols, then you can copy and paste them into your new Category. Alternatively, you can hold down the control key and then drag and drop the symbol into the library.

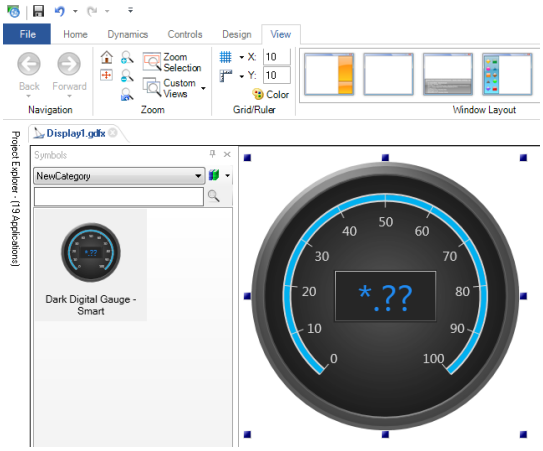

Figure 5 – Adding a new Symbol to a Category

9. The Symbol will automatically be saved to your Category after it has been pasted.
10. From now on, whenever you want to use this symbol again, you can drag it out from your symbols library onto your display and reuse it.