



GraphWorX64

Importing .NET Components



APPLICATION NOTE

September 2013

Description: Guide to importing .NET components into GraphWorX64.

OS Requirement: Vista x64/ Windows 7 x64/ Windows 8 x64/ Windows Server 2008 x64/ Windows Server 2008 R2 x64/ Windows Server 2012.

General Requirement: GraphWorX64 knowledge, Microsoft Visual Studio knowledge (for creating custom controls).

Introduction

GraphWorX64 is a very powerful ICONICS module which allows you to use many .NET Controls (ones that were compiled as "x64" or "AnyCPU"). The controls you can use include integrated Windows Form controls as well as your own custom controls. This application note will describe how to insert a Windows forms control into GraphWorX64, how to interact between the control and GraphWorX64 display, and how to eventually import your own .NET components.

GraphWorX64 supports following controls:

- ICONICS Controls
- Windows Forms
- WPF Controls

Adding Windows Forms Controls

If you want to use Windows Controls in GraphWorX64 please follow these steps.

1. Start GraphWorX64 from **Start → All Programs → ICONICS GENESIS64 → GraphWorX64**.
2. Make sure that you have the "Toolbox" visible. If not, check the "Toolbox" checkbox on the View Ribbon.
3. In the Toolbox panel, click on the "Add/Remove Components" button in the upper right.

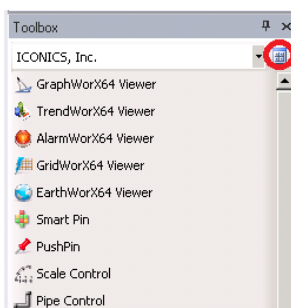


Figure 1 - Adding new .NET controls via the Toolbox

4. This will open a small dialog called Components which shows a list of components which are available.

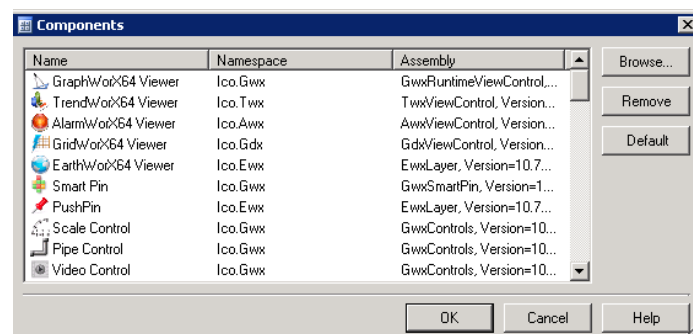


Figure 2 - Components dialog

5. Click on the **Browse** button to search for .NET controls.
6. Locate the file that you want to add. For example you can browse for Windows Forms Controls located here:

C:\Windows\Microsoft.NET\Framework64\v2.0.50727\System.Windows.Forms.dll

7. After you click OK you should see the controls from that DLL added to the bottom of your list.

NOTE: To add controls to different lists, pick the list from the Toolbox dropdown first, then click the Add/Remove Components button. You may want to choose "Favorites" and add your most frequently used controls.

Interacting with Controls

Once you have your .NET controls added into GraphWorX64, you can add them to your display. This example will use the "WebBrowser" control. Please follow these steps to embed a web browser control into your GraphWorX64 display.

NOTE: You must complete the previous section's steps to add the System.Windows.Forms.dll to your toolbox in order to see the WebBrowser control.

1. Select WebBrowser from the list of available Controls and drag it into to your GraphWorX64 display.
2. Once you have WebBrowser added on your display edit the properties and enter the URL you want to show inside this control (e.g. <http://www.google.com>).
3. Save your display and switch it to runtime. You should see output similar to Figure 3.



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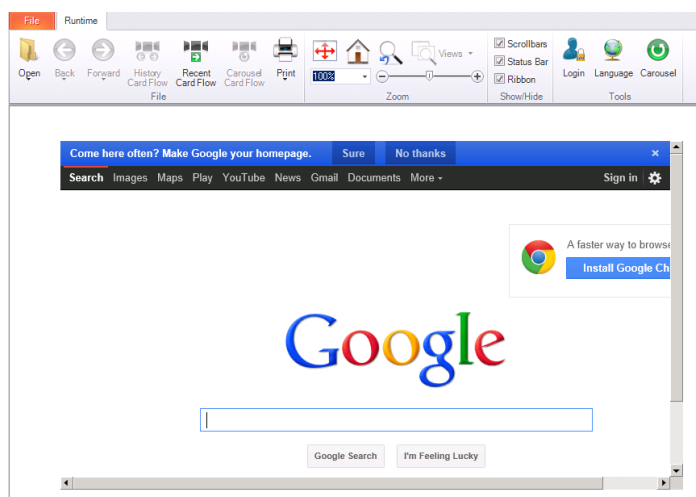


Figure 3 – The WebBrowser control in GraphWorX64

Importing Custom Controls

Please follow these steps to import your custom control into GraphWorX64.

1. First you have to create your custom control in Microsoft Visual Studio. To do this, open a new project in Visual Studio and select **Windows Forms Control Library**.
2. By default, the system will create an empty User Control. You can add Windows Forms controls and custom code. For example, Figure 4 below shows code that updates a label with the current time.

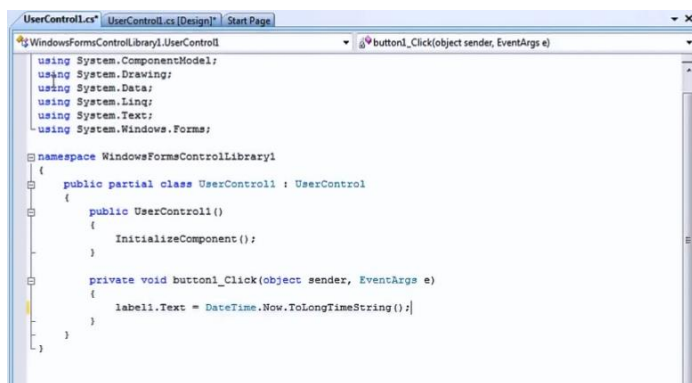


Figure 4 - Adding your custom code in Visual Studio

3. Test your control in Visual Studio to be sure it works properly before you import it into GraphWorX64.

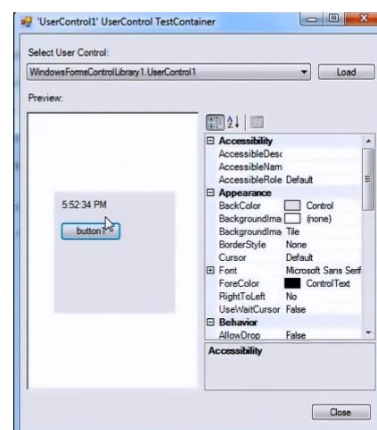


Figure 5 - Custom Control created in Visual Studio

4. Once you have built your custom control in Visual Studio, copy it into the following location (this is highly recommended in order to load it properly in GraphWorX64):

C:\Program Files\ICONICS\GENESIS64\Components\

8. Repeat the steps from the previous two sections to add your control into the GraphWorX64 Toolbox, then into the display.
9. After your display has been added, switch to runtime and test your custom control works as it was designed.

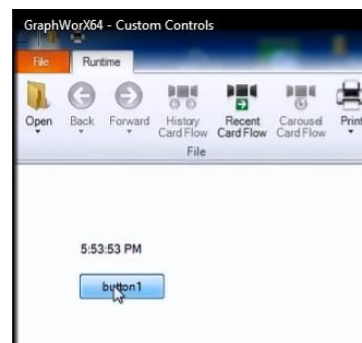


Figure 6 - User Control in GraphWorX64