

Description: Guide to importing .NET components into GraphWorX64.

OS Requirement: Windows XP x64/Windows Server 2003 x64/Vista x64/Windows Server 2008 x64/Windows 7 x64/Windows Server 2008 R2 x64

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 “Toolbox” enabled. You can do that by checking the “Toolbox” checkbox on the View Ribbon.
3. Click in the Toolbox panel and make sure that you can see the default Windows Forms.
4. Click on the  button, which is available near the Windows Forms caption (under Toolbox section).

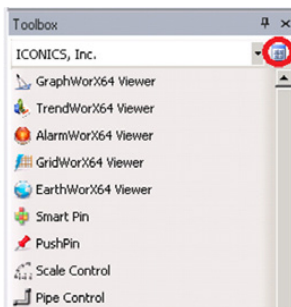


Figure 1 - Adding new .NET controls via the Toolbox

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

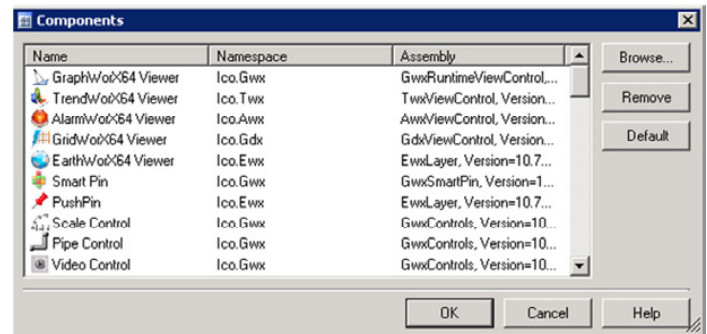


Figure 2 - Components dialog

6. Click on the **Browse** button to search for existing user controls or even for your custom .NET controls.
7. 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

8. After you click OK you should see an extended list of controls, including your newly added Windows Controls.

NOTE: Please notice that controls you just imported will be added to the bottom of the list.

Interaction of control with GraphWorX64

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:

1. Select WebBrowser from the list of available Controls and add it 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>).

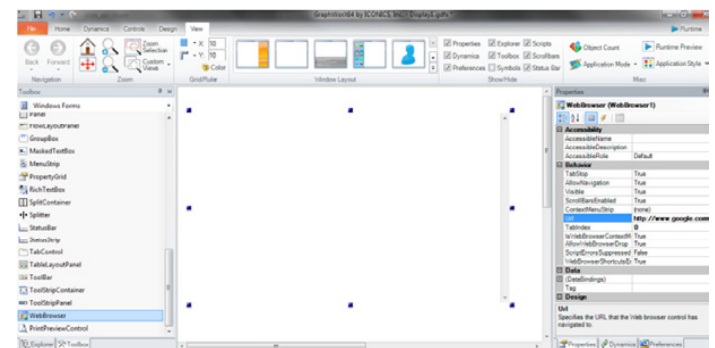


Figure 3 - Adding a WebBrowser to a GraphWorX64 display

3. Save your display and switch it to runtime. You should see output similar to Figure 4.

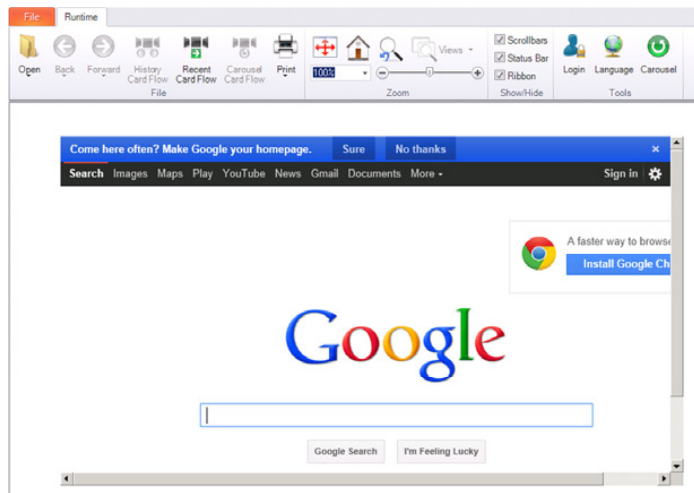


Figure 4 – The WebBrowser control in GraphWorX64

Importing custom controls into GraphWorX64

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

1. First you have to create your custom control (for example in Microsoft Visual Studio). To do this, open a new project in Visual Studio and select **Windows Forms Control Library**, for example.
2. By default system will create empty User Control. You can add Windows Forms controls and custom code. For example, Figure 5 below shows code that updates a label with the current time.

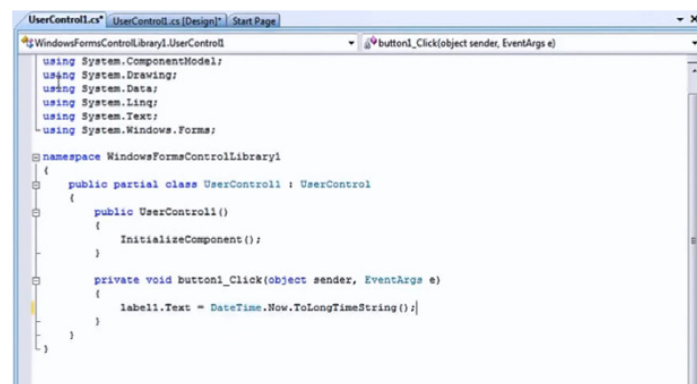


Figure 5 - Adding your custom code in Visual Studio

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

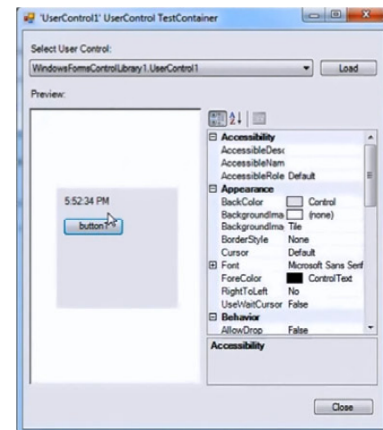


Figure 6 - Custom Control created in Visual Studio

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\

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

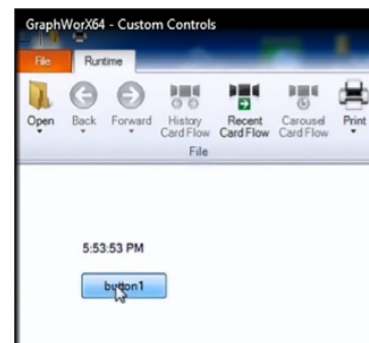


Figure 7 - User Control in GraphWorX64