WebHMI – Publishing Alternatives

APPLICATIONS NOTE

October 2013

Description: Guide to use the Export Local Copy option of the Web Publishing Wizard as a work around to publishing issues.
OS Requirement: Win 2000, XP Pro, Server 2003, Vista, Server 2008, Windows 7
General Requirement: Using default directory structure of WebHMI. Using IIS Web Server or Apache Web Server.

Introduction

Sometimes it is necessary to use publishing alternatives if publishing your GraphWorX32 (or AlarmWorX32 or TrendWorX32) files to a Web Server is not an option. For instance, if the Web Server is not yet set up or prepared for files to be published to it, or if permissions on the Web Server are not allowing files to be published to it. You may also need an alternative for posting your files to the Web Server if posting via HTTP is not allowed.

The two main alternatives to publishing displays to your Web Server via HTTP are exporting a local copy, or publishing via FTP. When you export a local copy of a display, the .HTM file is created for that display with the intensions of local use. You can then modify that .HTM file for use on a Web Server so that it can be viewed remotely if desired. Publishing via FTP is essentially the same as publishing via HTTP; the files are simply posted to the server via FTP protocol instead of HTTP protocol.

Exporting a Local Copy

1. First, make sure that the display you are exporting is saved of type **GraphWorX32 Displays without VBA (*.gdf)**.
2. Open the **Web Publishing Wizard** by choosing Tools→Publish to HTML, or by using the button on the **Main Toolbar** in GraphWorX32.
3. To export a local copy only, check only the **Export Local Copy** option, as shown in Figure 1. Do not check the **Publish to Web Server** option.

   NOTE: You can export a local copy while publishing to the Web Server if appropriate by leaving both options checked.

4. You may select where you want to export the resulting .HTM file. In this example, shown in Figure 1, the display was exported to the Common Files\ICONICS directory (the same location where the actual display was saved).

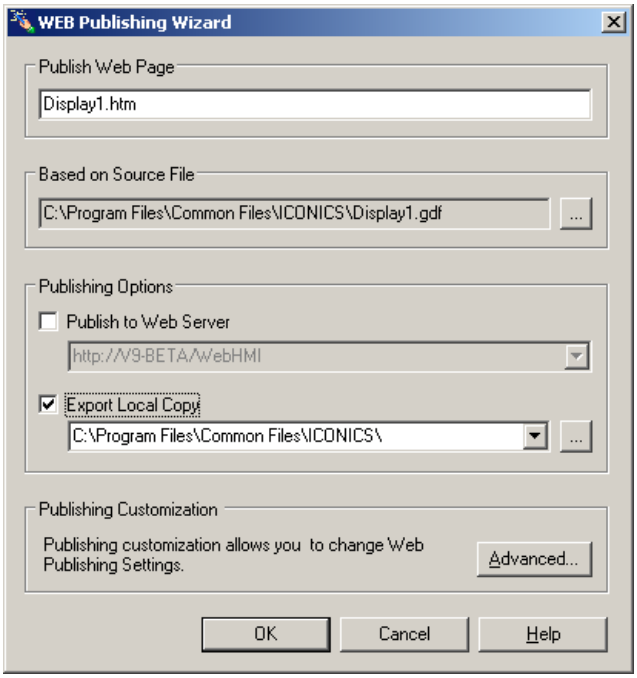

Figure 1 - Exporting a Local Copy From the Web Publishing Wizard

5. Click on the **Advanced** button, then the **General** tab, as shown in Figure 2.

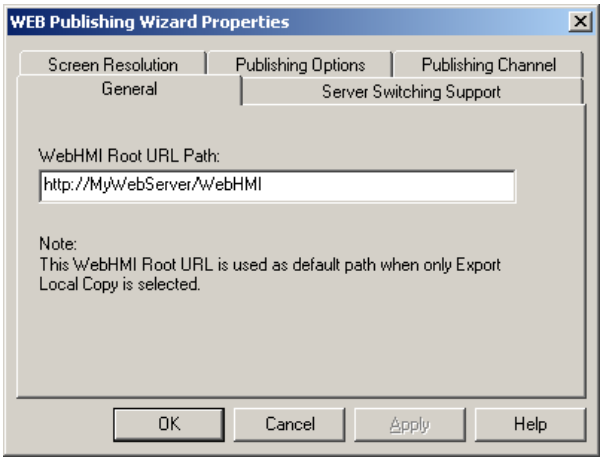

Figure 2 - General Advanced Publishing Properties

6. Your **WebHMI Root URL Path** should be http://MyWebServer/webhmi where **MyWebServer** is the name or IP address of the Web Server on which this file will ultimately reside. This allows the local copy to be exported for a specific web server rather than local host.
7. Now click on the **Server Switching Support** tab to choose the GenBroker Configuration file (.gbx) to be used in this publication.

8. If you are using **default.gbx**, configured for you during installation based on the options you choose, then select **As Configured in WebHMI Settings**.
9. If you have configured your own .gbx file to be used in WebHMI communications, choose **User Defined** and define the correct file to be used. The path for the file should not be a local path, but a URL format path (i.e. http://MyWebServer/WebHMI/MyConfigFile.gbx).
10. Exit Advanced Options by clicking **OK**.

Modifying the .HTM File

Once you have exported the .HTM file, you now must edit it to properly reference your published display if you plan to use this over the Web.

1. Open the .HTM file in a text editor and press **Crtl+F** to search for **DisplayName**. You should find one instance of this, at the end of the code. Next to it you will see the path to where the published display resides on the machine.
2. In this example the display was saved to the desktop, so a local path to the file on the desktop would be in the HTML code, as shown below.

```
                '<PARAM NAME="AutoStartRuntime" VALUE="-1">' +
                '<PARAM NAME="OverrideScrollbarSettings" VALUE="0">' +
                '<PARAM NAME="VerticalScrollbar" VALUE="0">' +
                '<PARAM NAME="HorizontalScrollbar" VALUE="0">' +
                '<PARAM NAME="DisplayName" VALUE="c:/documents and
settings/ICONICS/desktop/display1.gdf">';
        CodebaseRenderable[3] = SecurityCheck(clsid_version[3][_CLSID]);
</SCRIPT>
```

Figure 3 - Original Display Name in .HTM

3. This local path needs to be replaced with a URL path rather than a local path to work over the Web. Replace everything up to the display name with http://MyWebServer/webhmi/.
4. In this example, the path would be changed to http://MyWebServer/webhmi/display1.gdf.

```
                '<PARAM NAME="AutoStartRuntime" VALUE="-1">' +
                '<PARAM NAME="OverrideScrollbarSettings" VALUE="0">' +
                '<PARAM NAME="VerticalScrollbar" VALUE="0">' +
                '<PARAM NAME="HorizontalScrollbar" VALUE="0">' +
                '<PARAM NAME="DisplayName"
VALUE="http://MyWebServer/webhmi/display1.gdf">';
        CodebaseRenderable[3] = SecurityCheck(clsid_version[3][_CLSID]);
</SCRIPT>
```

Figure 4 - Changed Display Name in .HTM

5. Once you have done this, save and close the .HTM file.

Moving Files to the Web Server

You now can move your files (display file and corresponding .HTM file) into the appropriate directory on your Web Server. If you are using an IIS Web Server, move both the GraphWorX32 display file (.gdf) and its corresponding .HTM file into the **C:\ Program Files\Common Files\ICONICS\WebHMI** directory.

NOTE: If your WebHMI display contains other displays links (through pick actions), directly or indirectly, you must also move the linked displays (.gdf files) into the appropriate Web Server folder described above.

Publishing via FTP Protocol

In the case that HTTP posting is not allowed or is disabled on your Web Server, it might be necessary to post the files using FTP Protocol.

As a specific example, Windows Server 2003 has HTTP posting disabled for security reasons. The only way to publish successfully from GENESIS32 on a Windows Server 2003 or later machine is by using FTP as the posting protocol. You can publish using this way on any system as long as FTP Service is installed.

For instructions on how to publish GraphWorX32 displays via FTP instead of HTTP, see the applications note entitled *WebHMI – Publishing GraphWorX32 Displays via FTP Channel*.