



Description: This document describes a workaround to overcome issues with transferring displays containing ActiveX objects from one machine to another.

OS Requirement: Windows 2003/XP/2000/NT.

General Requirement: Genesis32 installed on two PCs

Summary

GraphWorX displays, containing ActiveX object(s) (Iconics or 3rd party), stop working after being transferred from the development station to another machine, even if the machine is HW and SW identical. The displays cannot be opened in the design mode and/or runtime mode and/or it causes GraphWorX to be closed in a nonstandard way.

Fundamentals of the Issue

The Microsoft VBA portion of a GraphWorX display stores information about the ActiveX contained in the display. Microsoft VBA caches information about ActiveX in two different locations: at a local level inside each display and at a system level on the development station hard disk. The system level information is stored inside a group of files with extension EXD and TWD. A couple of EXD and TWD files get created for every ActiveX installed on the system that is referenced from GraphWorX display. The path to this EXD and TWD files is stored inside the VBA portion of the GraphWorX displays along with the VBA local cache information for the ActiveX. VBA attempts to keep the local ActiveX cache and the system ActiveX cache aligned but under certain condition this information might get corrupted.

If you move the .gdf file to a new machine, the referenced exd/twd files may not exist or are not compatible with the local VBA cache stored in the display. In other words, a conflict between the local VBA cache stored in the display and the system ActiveX cache stored in the EXD/TWD files may occur.

Are You Really Experiencing This Issue?

Open the problematic .gdf file in some text editor with Search capabilities, e.g. in Notepad, and search for the strings exd or twd. If you find a path to an EXD or TWD file as shown on Fig.1 you might be experiencing this issue.

Workaround

Before saving the file in GraphWorX, insert any blank ICONICS ActiveX (e.g. TrendWorX Viewer) by clicking its icon in Toolbar. Delete the newly inserted ActiveX and

immediately save the file. It refreshes the VBA portion of the problematic GDF file and deletes all the undesirable .exd references created during runtime.

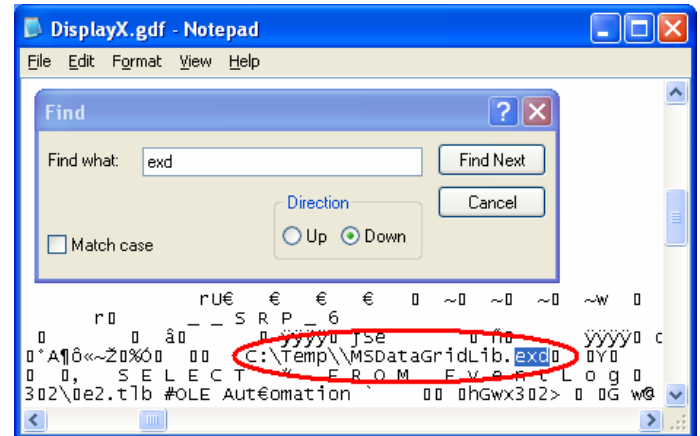


Fig. 1: Undesirable EXD reference

Automating the Workaround

If you have a lot of displays, it is not necessary to open all of them manually, you can write a script, which will open the displays, insert an ActiveX, delete it and save the display. Following VBA code can be modified for this purpose:

```
Dim dis As New Gwx32.GwxDisplay
Dim DisplayName As String
Dim ret As Boolean
DisplayName = "c:\MyDisplay.gdf"
dis.FileNew
dis.FileOpen (DisplayName)
ret =dis.InsertOleObject
("TWXViewer.TWXViewerCtrl.1", "ForDelete")
dis.DeleteObject ("ForDelete")
dis.FileSave
```