



Description: Many a times, customers wish to see History pens replayed dynamically during runtime. One would like to select the database dynamically during runtime, and make the database active during runtime. This AppNote explains how to do all this and more!

OS Requirement: Windows 98SE/Me/NT/2000/XP/Windows 2003 Server

General Requirement: See References below.

References:

Before you run the application, go to TWX32 Container's VBA Editor, Tools Menu – References and make sure you have the following references selected.

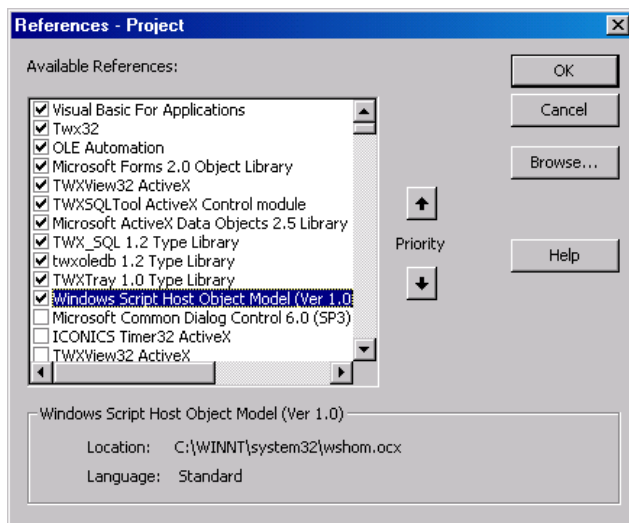


Figure 1

The following are the related files:

Visual Basic for Applications:

C:\ProgramFiles\CommonFiles\MicrosoftShared\VBA\VBA32

TWX32:

C:\ProgramFiles\ICONICS\GENESIS32\Bin\Twx32.exe

OLE Automation: C:\WinNT\System32\STDOLE2.TLB

TwxView32ActiveX:

C:\Programfiles\ICONICS\GENESIS32\Bin\Twxviewer.ocx

TWXSQL Tool Active X Control Module:

C:\Programfiles\ICONICS\GENESIS32\Bin\TWXSQLTool.ocx

TWX_SQL 1.2 Type Library:

C:\ProgramFiles\ICONICS\GENESIS32\Bin\twx_sqlpls.dll

twxoledb 1.2 Type Library:

C:\Programfiles\ICONICS\GENESIS32\Bin\twxoledb.dll

Windows Script Host Object Model (ver 1.0):

C:\WinNT\system32\wshom.ocx

History Pen Replay

1. After you make sure these references are present, come back to the TWX32 display, open the file

(RuntimeHistory Pens.t32) and go to runtime. You will see the following display come up:

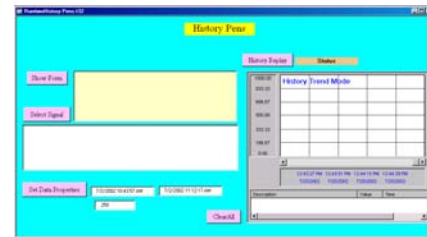


Figure 2

2. Click on the button “**Show Form**” and the following window will come up. At this point of time, you can only select the Access databases, but not SQL or Oracle databases.

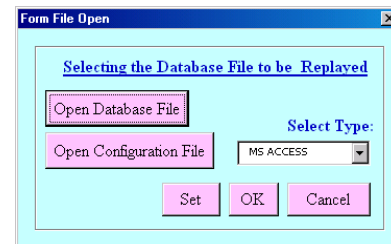


Figure 3

3. Click on the button “**Open Database File**”. You will see a message box come up, which will tell you to select the database file you want to replay the history pens from. It will open “Fileopen” Dialog, with all the files in it. You can select your database file (with extension .mdb).

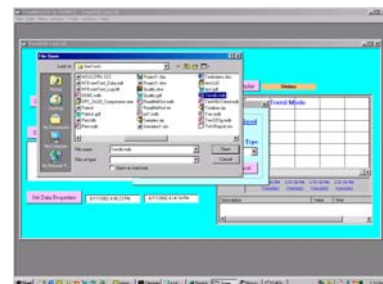


Figure 4

4. Similarly you have to select your TWX32 **configuration Database file** also. After you select your Configuration database file, click on “**Set**”. This will make your configuration Database active.

You will see the following window come up twice. Once with your configuration database and then with the historical, database file name

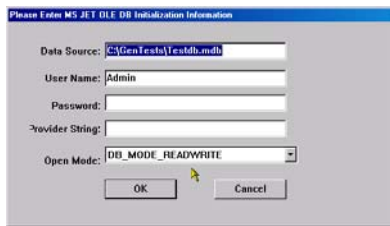


Figure 5

You will see the related Database sources show up. Just click **OK** on both the windows. **DO NOT MAKE ANY CHANGES TO THE FILES OR FILENAMES SHOWN**

You will see the connection string in the textbox, on the main display, now you can close this window.

- Next click on **“Select Signal”** button to select the signals you want to replay. The following window will open up:

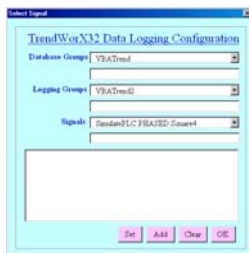


Figure 6

Select your logging group and signal and click on **“Set”**, then click on **“Add”** to add the signal with the whole path in to the list box shown. Click on **Clear**, to clear the pens, but you cannot delete one pen only.

- In this way add all the tags you want to do the historical replay on. However TWX Viewer cannot replay more than 64 tags. If you exceed this limit you will get a message box saying that you can only select 64 tags.

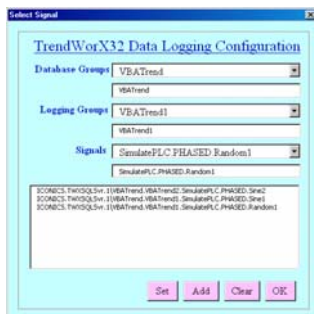


Figure 7

After you finish selecting the tags you can click on **OK**, to close the window.

- Next if you want to select your timings click on **“Set Data Properties”** and the following window will come

up. You can give the timing, data filter, and number of samples you want to see the data in the trend viewer,

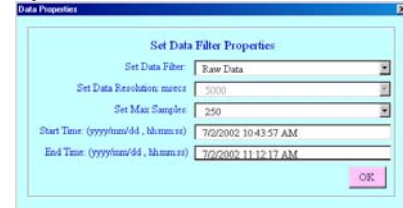


Figure 8

- Next click on **“History Replay”** and you will see the trends come up.

It might take up to 2 minutes for the replay if the number of samples is around 1000. You will see each pen being added. When a pen is added you will get a message box, which gives the name of the pen it is going to add.

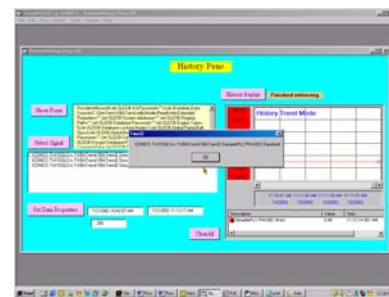


Figure 9

- After all the pens are added you see them as shown in the Figure below:

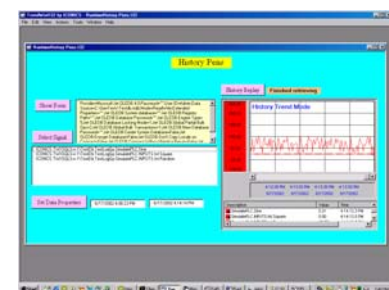


Figure 10

- As you can see all the pens are of the same color. At this point of time you have to change color manually. Highlight the pen in the trend window and Right click and click on **“Edit”**. The properties window will come up and you can change the color. After changing the color, the display looks like the Figure below:

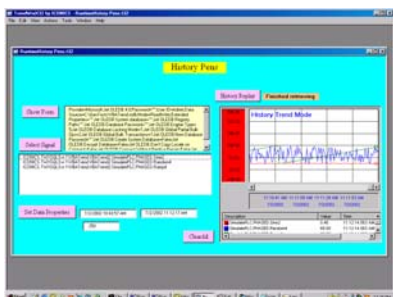


Figure 11

11. During runtime Click on “Clear All”, to clear all the pens, and information in the boxes. You can start from opening the form and selecting a database.