



TrendWorX32-Adding Custom Pens from a History DB

APPLICATIONS NOTE

January 2003

Description: Connecting to the TWX database through SQL Tool and replaying the logged data back with custom pens.

OS Requirement: Windows 2000.

General Requirement: See References below:

References: Before you proceed make sure you have the following references. Open the display, Go to **Tools Menu – Macros – Visual Basic Editor**. After the VBA editor opens up, go to **Tools Menu** in VBA Editor - **References**.

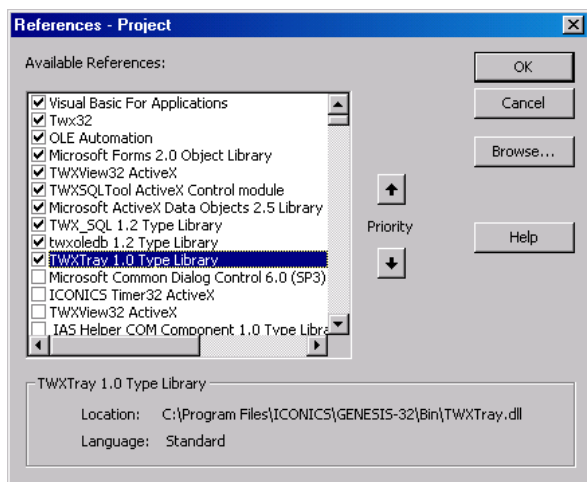


Figure 1

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

Custom Pens:

1. Open the display and after you finish checking the references, go to **Runtime**. The window will appear as shown below:

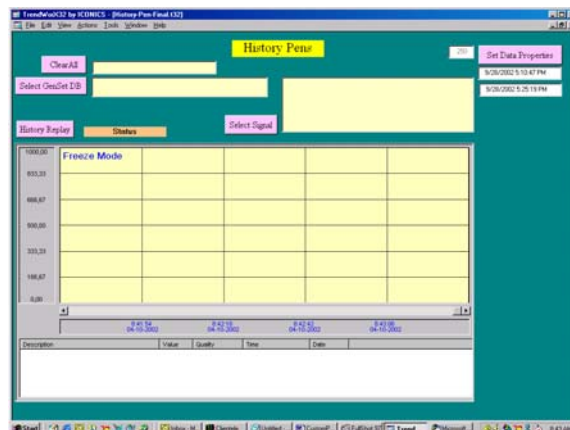


Figure 2

2. Click on the button “**Select GenSet DB**”. Form **Select History Database** will open up. See the figure below:

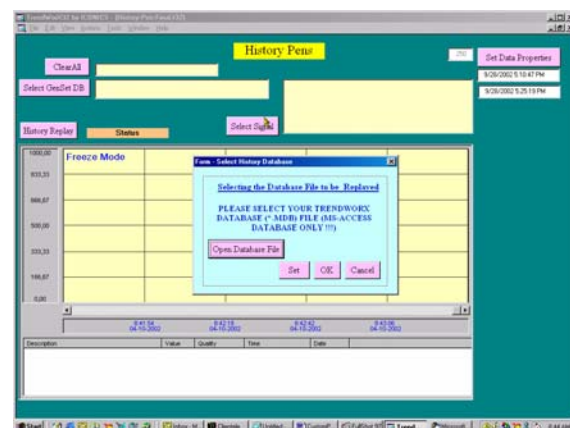


Figure 3

3. Click on the button **Open Database File** and the **FileOpen** Dialogue opens up where you can select your Database.

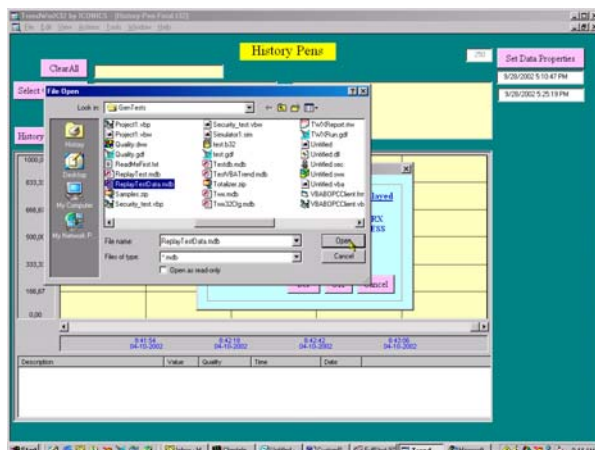


Figure 4



4. Select your database and click on **Open**. Also you can double click on the file to select it. A message box comes up showing the file you selected. See the figure below:

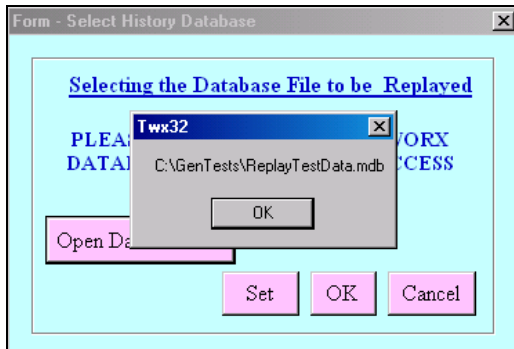


Figure 5

5. After you have selected the database, **click** on **Set**. A message box comes up saying "Success". The connection to the database has been made successfully. **Click** on **OK** to close the window.
6. Now click on **Select signal** button. The Select Signal form opens up. The form will list all the Databases, Groups and Signals related to the history Database you have chosen.

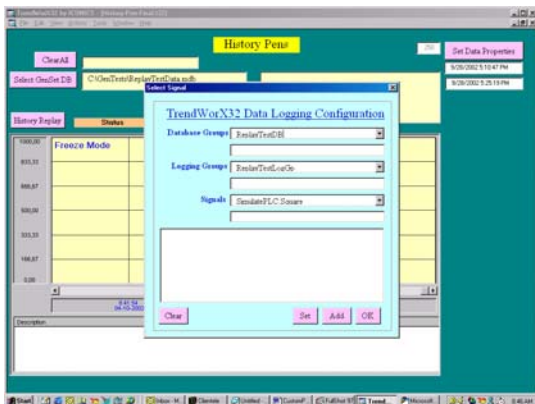


Figure 6

Note: At this point of time, you can select up to 64 signals, but all of them should belong to the same Logging Group. To select signals from a different logging group, follow the steps again.

7. Select you Signal and **click** on **Set**. After you set, **click** on **Add**. Repeat the steps until you are done adding your signals. After you finish adding the pens, **Click** on **OK** to close the window.
8. If you have made some mistake is selecting, Click on **Clear**, all the signals will be cleared off the list. After you add pens the form will appear as shown below:

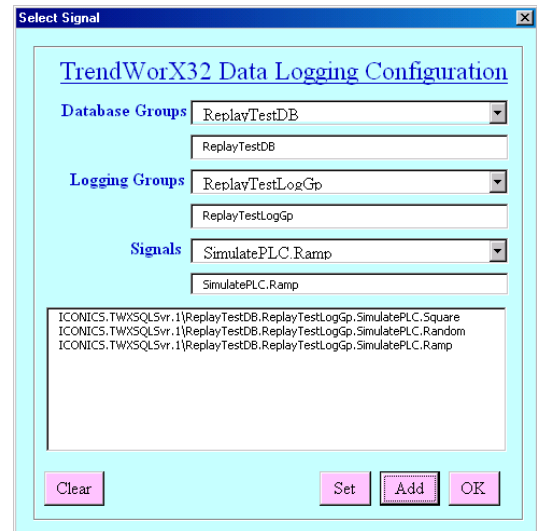


Figure 7

9. **Click** on **OK** after you are done with Selecting the Signals. The form will appear as shown in the figure below:

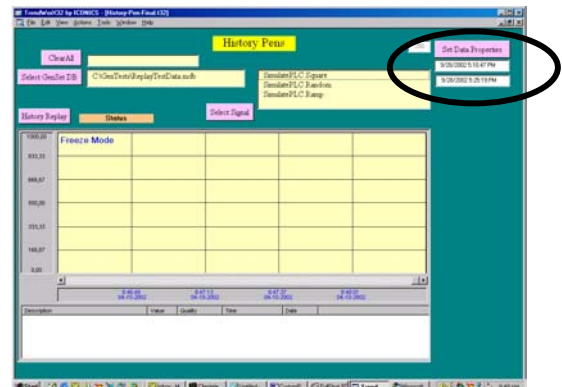


Figure 8

10. On the top right hand corner, you will see 2 boxes with date/time. These dates correspond to the Start and End times of the logging. These dates come in automatically after you select the signals. If you would like to select your own dates, click on **Set Data Properties**. The **Data Properties** form is shown below:

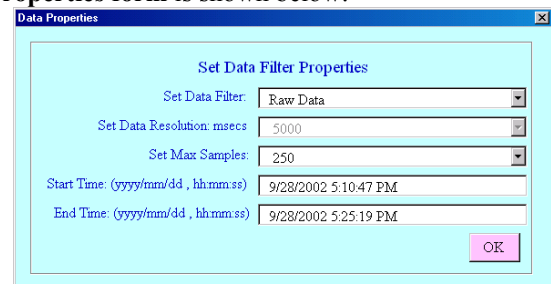


Figure 9



11. You can select the Filter, the maximum number of samples, the Calculation of the data based on the filter, and the times between when you would like to see the data. This step is optional. Only when you would like to set the data properties select this button.
12. Now click on the button “**History Replay**”. You will see a message box with the Signal name come up and the pen replayed. See the figure below:



Figure 10

13. After replaying all the pens the final display looks like the following display.

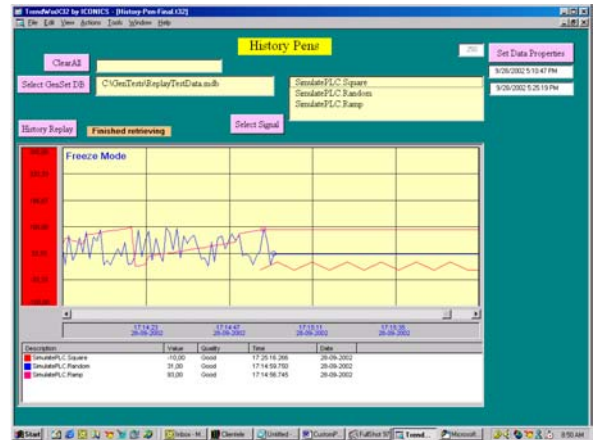


Figure 11

14. At this time all the pens are of the same color. To change the color, select the signal in the details window, Right Click. A popup menu comes up. Select Edit and you can change the color of the pen.
15. Click on **ClearAll** button to clear all the entries on the display and start a new connection. You need not go into configure mode to clear all the selections made.