TrendWorX32 Viewer – Adding Custom History Pens

APPLICATIONS NOTE

October 2013

Description: Guide to connect to a TrendWorX32 database through SQL Tool and replaying the logged data back with custom pens.
OS Requirement: Win 2000, XP Pro, Server 2003, Vista, Server 2008, Windows 7
General Requirement: Installation of GENESIS32

Introduction

You can easily view customer history pens using the preconfigured display that comes with your GENESIS32 installation. This document will take you through the steps of adding custom pens in this display and viewing the data.

Custom Pens

1. Locate the file History-Pen-FinalV9.t32 in C:\Program Files\ICONICS\GENESIS32\Examples\TrendWorX32\TrendWorX Data Logging and Reporting
2. Open the file and go into runtime. You should have a display similar to

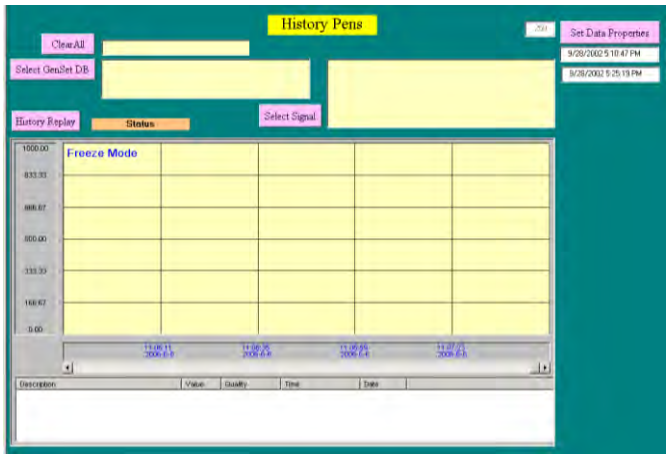

Figure 1 - HistoryPen.t32 Runtime

3. Click on the "Select GenSet DB" button to open the Form – Select History Database window.

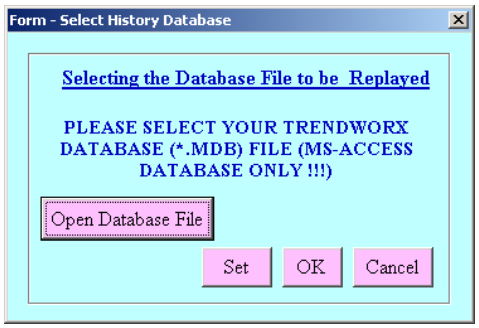

Figure 2 - Select History Database

4. Click on the "Open Database File" button and browse to your TrendWorX32 Access logging database. If you do not have a logging database, you can use the TwxLogData.mdb file located in C:\Documents and Settings\All Users\ICONICS\Examples32.

   NOTE: you can only open MS Access database in this display. You should open the logging database NOT the configuration database.

5. Once you have selected a database file, a confirmation message will appear. Click on "OK" to return to the Select History Database window

Figure 3 - TrendWorX32 File Select Confirmation

6. Click on "Set", you will either get a success message or a failure message with the reason why it failed. Click on "OK" on the message, if it was a failed message, resolve the error indicated first. Click on "OK".
7. You should see that the file path for the database you are using in the text box next to the "Select GenSet DB" button.
8. Click on the "Select Signal" button, the Select Signal window will come up. A database group, logging group, and signal has already been selected for you, you can change this using the dropdown list. Click on "Set" when you are done choosing your database group and logging group.
9. You need to click on the "Add" button for each signal that you want to add. For this example, we selected the Sine tag.

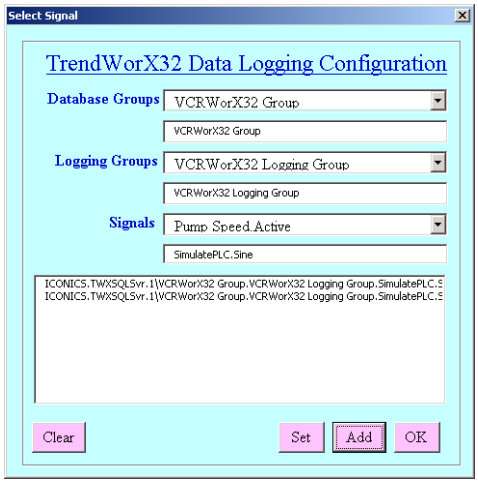

Figure 4 - Adding Signals

NOTE: You can select up to sixty-four signals, all of them must belong to the same logging group. To select Signals from a different logging group, repeat the step.

10. Click on “OK” when you are done adding the signals.
11. If you have made some mistakes in selecting you pens or if you have changed your mind in what you want to show, click on “Clear” to clear the tags.
12. In the upper-right hand corner, the data/time range for data display has been set automatically. We will change it to start on Jan. 1, 2006 at 10:00 AM and end on Jan 1, 2006 at 10:00 PM.
13. Click on the “Set Data Properties” button, in the Data Properties window, change the Start Time and end time to that specified in the previous step. Click on “OK” when you are done.

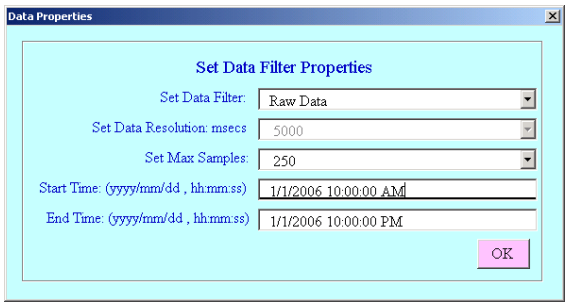

Figure 5 - Data Properties

NOTE: You can also change the data filter and the maximum samples you would like to show. The Data Properties are optional; you do not have to set them to display data.

14. Click on “History Replay”. You will see a message box come up for each pen that you have added. Click “OK” to each message box and noticed that pens being added with the replay after clicking on each alert message for the pen being added.
15. All of the pens are added has the same color. Right-click on each pen and select Edit to edit the colors and ranges of the pen.

NOTE: You can find some historical data in example database about 1/1/2006 3.00.00 PM (UTC)

16. Figure 6 shows an example of what the trends would look like after clicking on the “History Replay” button.

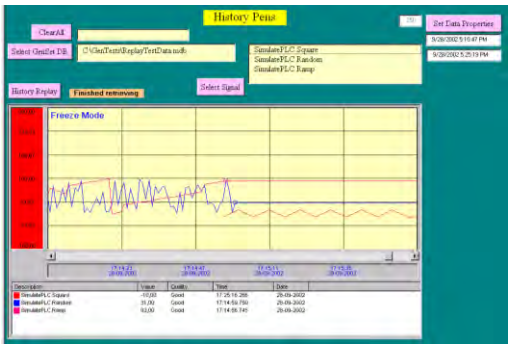

Figure 6 - Trends

17. You can click on the “Clear All” button to clear the data and display a different trend from a different database.

There are other examples of Custom pen . You can find them in C:\ProgramFiles\ICONICS\GENESIS32\Examples\TrendWorX32\TrendWorX32 VBA Examples. The files are TrendCustomPen1.t32 and TrendCustomPen2.t32.