



TrendWorX32 SQL Data Logger Quick Start

APPLICATIONS NOTE

January 2003

Description: Quick Start for configuring the TrendWorX32 SQL Data Logger.

OS Requirement: The operating system required is Win XP/2000/NT/95/98/Me.

General Requirement:

The TrendWorX32 product collects process data and logs this into standard databases (Access, MSDE, MS-SQL, Oracle). TrendWorX32 serves this data for reporting purposes or for live presentation on the screen. The following table shows the specific trending tasks and the TrendWorX32 module performing the task. The highlighted task is described in this application note.

Functionality	TrendWorX32 Module
Trend Logging to RAM	Persistent Trending
Trend logging to databases	TrendWorX32 SQL Data Logger
Realtime/Historical Trend presentation	Trend Viewer ActiveX
Trend Reporting	TrendWorX32 Reporter
Trend container application	TrendWorX32

Capabilities:

- The TrendWorX32 SQL Data Logger is an OPC Data Access Client (v1.x, v2.x).
- The TrendWorX32 SQL Data Logger is also an OPC HDA v1.0 Server application.
- Trend data may be stored in an ODBC database (Access, MSDE, SQL).
- Trend collection and logging settings are freely configurable.

Configure the Trend Logger

To configure the Trend Logger, the following steps have to be completed.

1. Start the **TrendWorX32 Configurator**. Click Start, Programs, ICONICS GENESIS-32, TrendWorX32, TrendWorX32 Configurator
2. Select the **File, New** and specify **myTrendCfg.mdb** as the name for your trend configuration file.
3. Right-Mouse click on **Configurations** in the tree control and select **New**.
4. Type the name **myConfiguration** and click the Apply button as shown in the next figure.

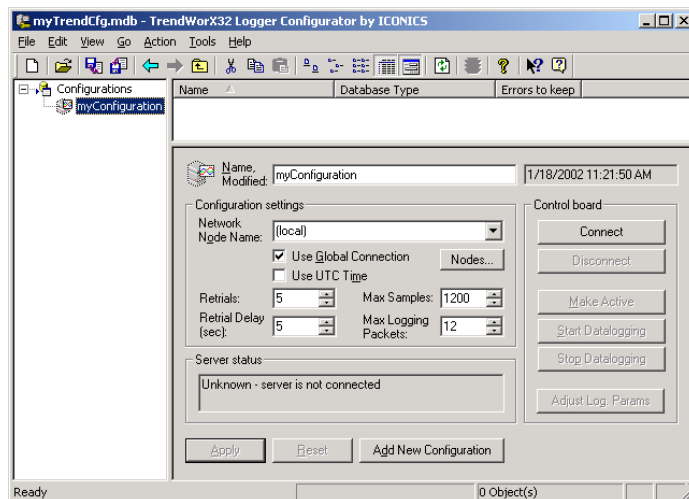


Fig.1 TrendWorX Logger Configurator

1. Right-Mouse click **myConfiguration** in the tree control and select **New, Database Group**
2. Type the name **myDB** and click the **Browse...** button to make an ODBC connection.
3. Select the tab **Machine Data Source**
4. Click the **New...** button
5. Select **System Data Source** and click **Next**
6. Select **Microsoft Access (*.mdb) driver** and click **Next**
7. Click **Finish**
8. Type the Data Source Name **myTrendData**
9. Click the **Create...** button
10. Give a database name **myTrendData.MDB**
11. Click **OK** a few times until you're back in the trend configuration dialog.
12. Click the **Apply** Button in order to apply the changes

The trend logger now knows where the data needs to be stored and you can continue to specify which process data you would like to collect and log.

1. Right-Mouse click **myDB** in the tree control and select **New, Logging Group**
2. Type the name **Boiler** and click the **Apply** button
3. Right-Mouse click **Boiler** in the tree control and select **New, OPC Tags...**
4. Select one or more OPC Data Access Tags using the **OPC Browser** and click **OK**

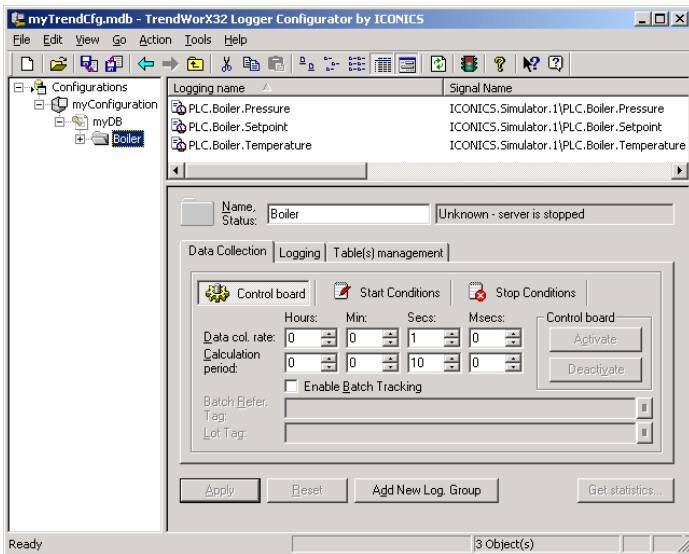


Fig.2 Complete Configuration with OPC Tags

5. Feel free to select the Data Collection, Logging and Table Management Tabs in order to change your collection and logging preferences
6. Left-Mouse click on **myConfiguration** in the tree control and select the **Make Active** button in the "control board".

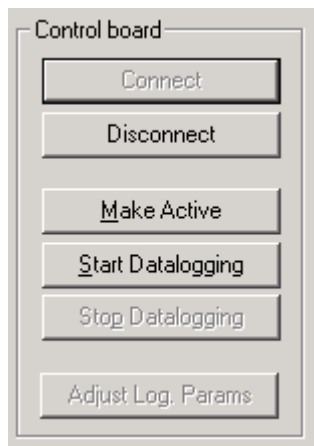


Fig. 3 Configuration needs to be activated

7. Select **File, Exit** from the menu; the configuration is complete.

Start the Trend Logger/Server

To start the Trend Logger/Server you can use the **GenTray** system tray icon

1. Click Start, Programs, ICONICS GENESIS-32, Tools, GenTray
2. Click on the purple **GenTray** icon in the bottom of your screen, next to the windows time.
3. Select **TrendWorX32, SQL Server, Start**

View Trend Data

You can look at trend data by placing the Trend Viewer ActiveX in your GraphWorX32 display.

1. Start **GraphWorX32**
2. Add a **Trend ActiveX** to the display from the ActiveX Toolbar



3. Double Click the Trend ActiveX in order to change its properties
4. Select the **Pens** tab
5. Select **Tags Menu..., History Tag** and Browse to the trend tags.

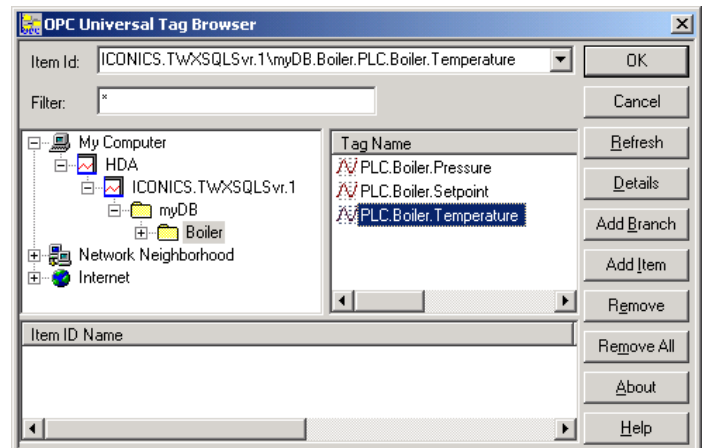


Fig.4 Trend Tag Browser

6. Select the required pens and click **OK** or click Add Item in case multiple trend tags are required.
7. Start GraphWorX32 **Runtime**

