

Description: Guide to setting up data logging to MSDE or MS SQL database

OS Requirement: Win 2000 Pro/Server, XP Pro, Server 2003

General Requirement: MSDE 2000 or MS SQL 2000 Server installed on the machine

Introduction

This document will guide you through the steps to setup data logging to an MSDE 2000 or MS SQL 2000 database.

Database Setup

1. Open MSDE Database Manager from Start → Programs → ICONICS Tools → MSDE Manager

NOTE: If you have not installed MSDE 2000 or MS SQL on this machine, you should do so before step 1. You can install MSDE 2000 from your ICONICS CD in the tools folder, or you could download it from the Microsoft website.

NOTE: if this is the first time you are using the MSDE Manager, you may get a license agreement window. You should accept the license agreement if you want to continue.

2. Double-click on local in the in the Server Explorer pane and a connect window should open as shown in **Error!**
Reference source not found..

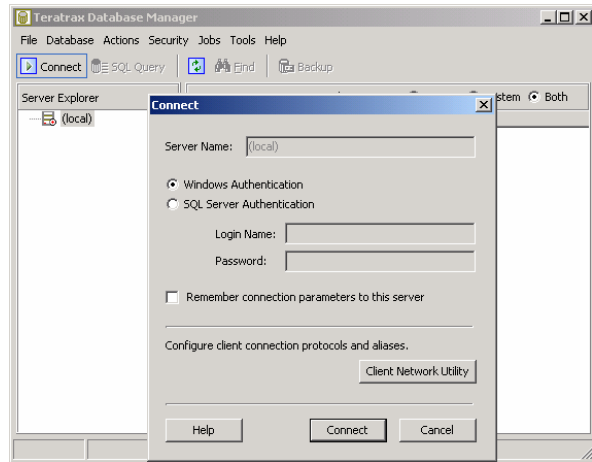


Figure 1 - Connect to the Local SQL Server

3. Click on the “Connect” button to connect to the local database server
- NOTE:** You should make sure that your MSDE or SQL server is running before trying to connect to it using the Database Manager.
4. Double-click on Database and right-click in the same pane to create a new database.

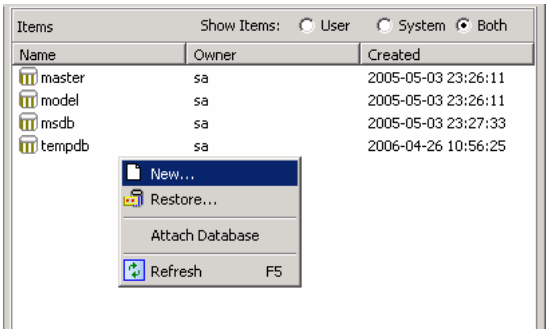


Figure 2 - Create New Database

5. Replace database1 in between the square-brackets with the database name you want.

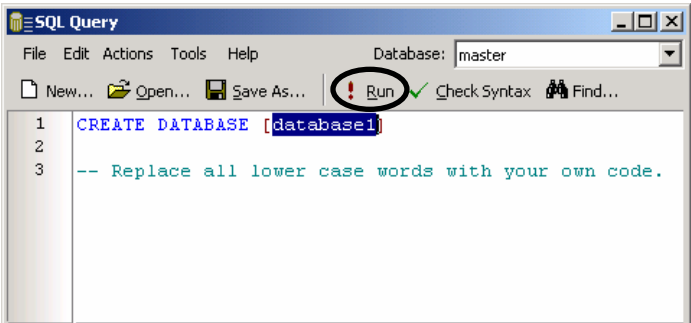


Figure 3 - Insert New Database Name

6. Click on the “Run” button to create your database.
7. Close this window, click on the “refresh” button in the MSDE Manager, and you should see your database in the right-hand pane.

Logging to a MSDE/MS SQL Database

1. Open the TrendWorX32 configurator by going to Start → Programs → ICONICS GENESIS32 → TrendWorX32 → TendWorX32 Configurator
 2. Create a new configuration database by going to File → New. Follow the instructions in the Database Creation Wizard, making sure to check the Make Active Box on the last step.
 3. Once you are done creating a new configuration database, expand Configurations, you should see Local_Configuration.
- NOTE:** You may want to change the name of this configuration.
4. Right-click on Local_Configuration and select New → Database Group.

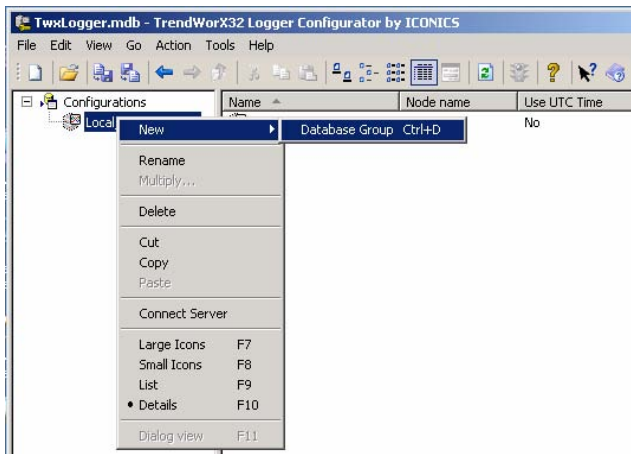


Figure 4 - Creating a New Database Group

5. In the right-hand pane, enter a name for the database group.
6. Click on the  button under Primary Data Source, the Select Data Source window will come up.
7. Select the Machine Data Source tab and click “New...” to create a new machine data source.

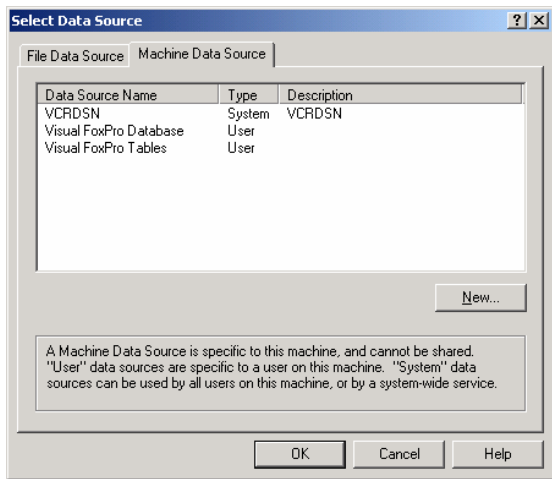


Figure 5 - Select Data Source

8. In the Create New Data Source window, select to create a System Data Source and click “Next”
9. Select SQL Server in the driver menu and click “Next”, and then click “Finish”.

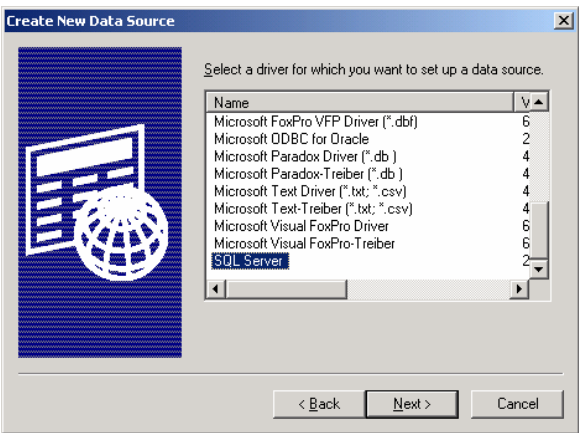


Figure 6 - Select Driver of Data Source

10. In the Create a New Data Source to SQL Server window, enter a name for this ODBC connection and enter a description as desired.
11. In the Server drop down list, select (local) to connect to the local machine. Click “Next”.

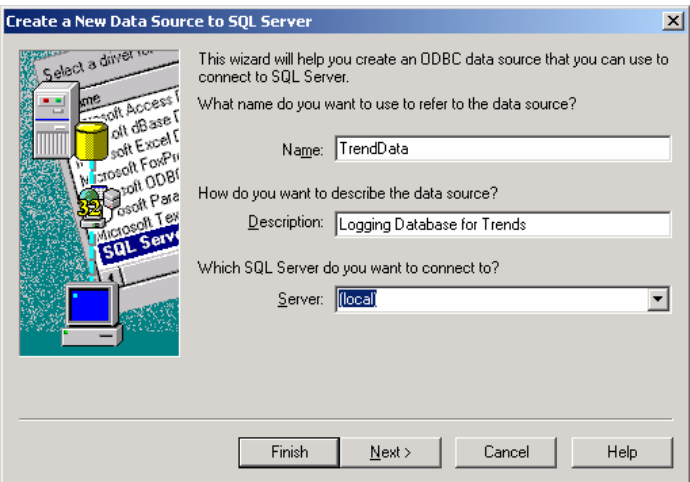


Figure 7 - Naming New ODBC Data Source

12. Click “Next again, check “Change the default database to:” and select the database you have created in the previous section from the drop down list.

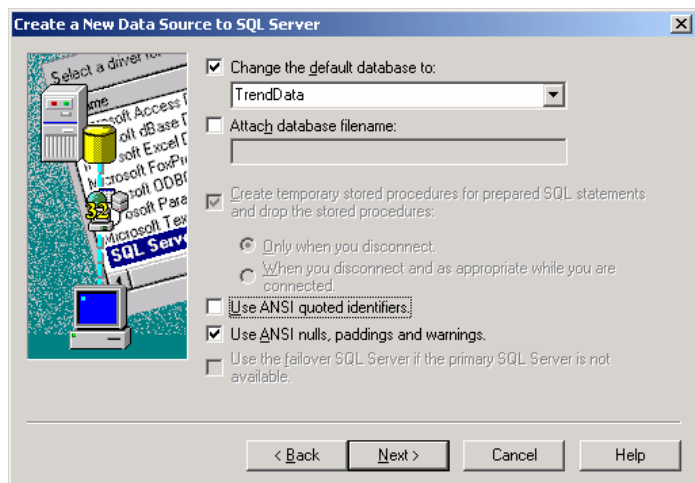


Figure 8 - Changing the Default Database

13. Click “Next” and “Finish”. A confirmation window will open. Test the data source connection if you wish to by clicking on the “Test Data Source” button. Click “OK” when you are done testing.
14. You should now be back in the Select Data Source window. Make sure that the data source that you have just created is selected, and click “OK”.
15. You will see a SQL Server Login window, click “OK” in this window and you should be returned to the TrendWorX32 Configurator.
16. Click on Apply at the bottom of the Database Group configuration on the right-hand pane.
17. In the tree-control on the left-hand pane, right click on the Database Group that you created and select New → Logging Group.

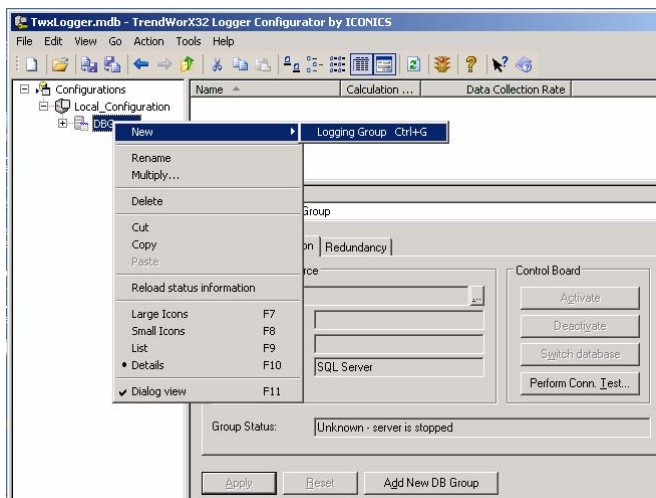


Figure 9 - Creating a New Logging Group

18. Give the logging group a name, you can leave everything else as default, and click “Apply”.

NOTE: You may want to change the data collection rate, logging rate, and logging table name according to your preferences.

19. In the tree-control on the left-hand side, right-click on the logging group that you have just created and select New → OPC Tags.
20. The Unified Data Browser will open, select that tags you want to log data for in the browser. You can select multiple tags in the same folder by holding down the ctrl key. Click “OK” when you are done selecting the tags
21. In the configurator, click on the traffic light  to start data logging.

Viewing the Database

1. Open the MSDE Database Manager by going to Start → Programs → ICONICS Tools → MSDE Manager
2. Connect to your local database server
3. Expand the tree until you see Database. Click on it and you should see the database that you have created to log data.
4. Double-click on your database, and then double-click Tables.
5. You should see the table that you have set TrendWorX32 Logger to log to no in the right-hand pane.
6. Right-click on the table in the right-hand pane and select Query All Rows. This will open up a query window with all data returned on the bottom half of the window.