



**Description:** Guide to setting up data logging to MSDE or MS SQL databases.

**OS Requirement:** Win NT/2000/XP/2003.

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

## Database Setup

### SQL setup:

1. Create a database using the SQL Server Enterprise Manager.

### MSDE setup:

1. Install MSDE from the tools folder in the ICONICS CD. Restart if prompted to do so.
2. Install GENESIS32 if you have not done so.
3. Open MSDE Database Manager from **Start → Programs → ICONICS GENESIS-32 → Tools → MSDE Database Manager**.
4. Double click on **local** in the **Server Explorer** pane and a connect window should open as shown in **Fig. 1**.

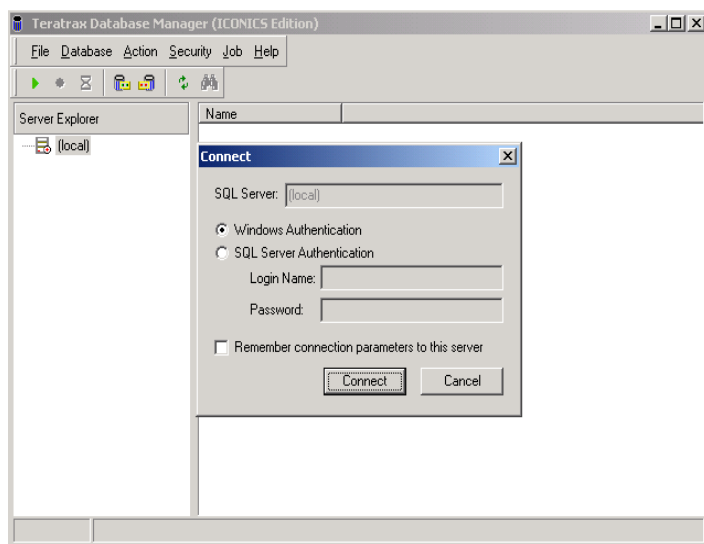


Fig. 1 Connect to the desired SQL server

5. Click the **Connect** button to connect to the local MSDE server.
6. Double click on **Databases** and right click in the same pane to create a new database.

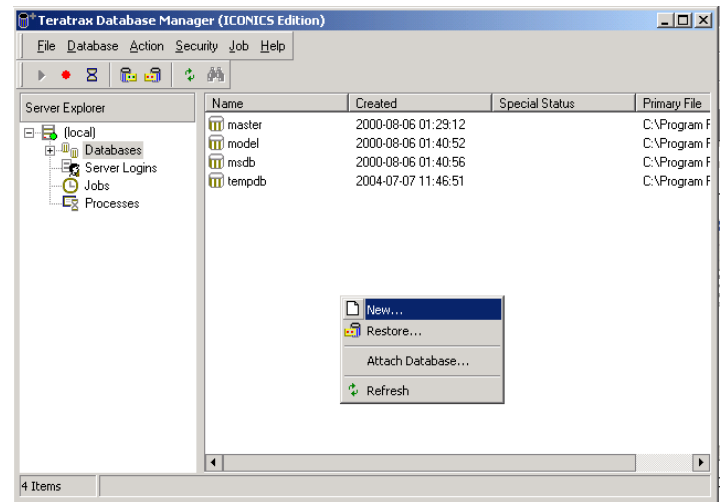


Fig. 2 Create new database

7. Enter the name you want in the **database\_name** field in between the square brackets. Do not hit 'Enter'.

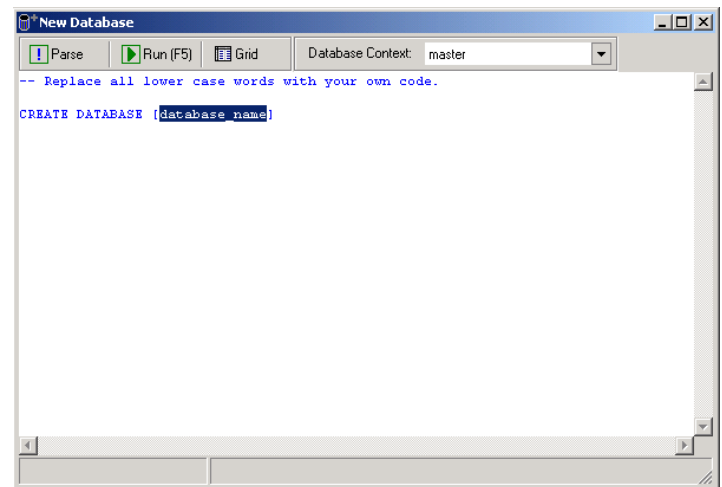


Fig. 3 Enter name of new database

8. Click **Run** and the new database with the name you entered will be created.
9. Close this window and you should see a database under the name you entered in the right pane.



## Logging with MSDE/MS SQL database

1. Open the TrendWorX32 Configurator from **Start → Programs → ICONICS GENESIS-32 → TrendWorX32 → TrendWorX32 Configurator**.
2. A new configuration has been created for you. Make sure it is activated.
3. Right click on the configuration and select **New → Database Group**.

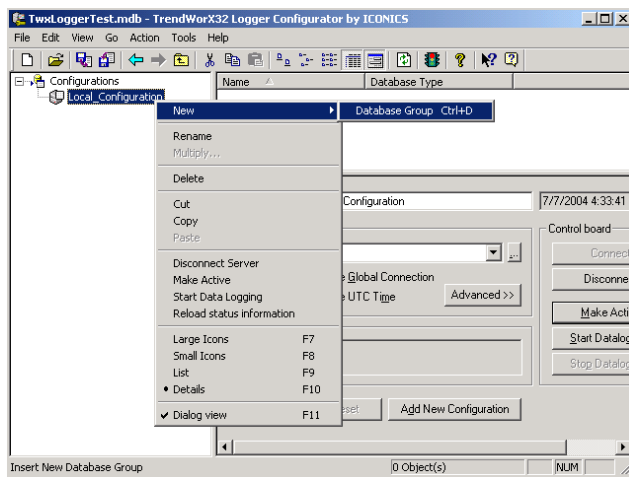


Fig. 4 Creating a new Database Group

4. Enter a name for this database group.
5. Click on **Browse** and select the **Machine Data Source** tab.

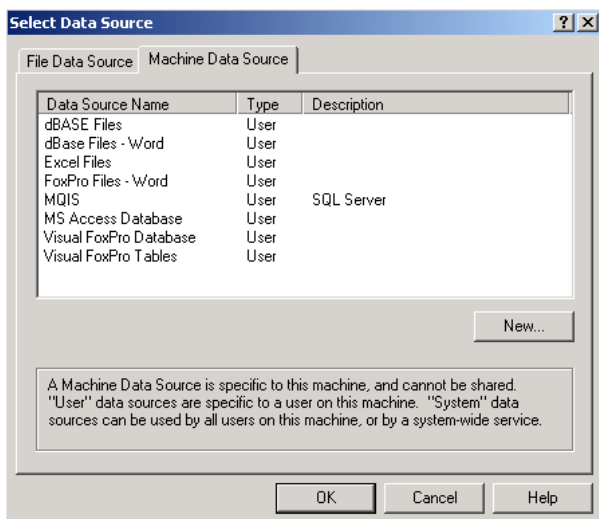


Fig. 5 Select Machine Data Source

6. Click **New** to create a new data source.
7. Select **System Data Source** and click **Next**.
8. Select **SQL Server** in the driver menu and click **Next**.

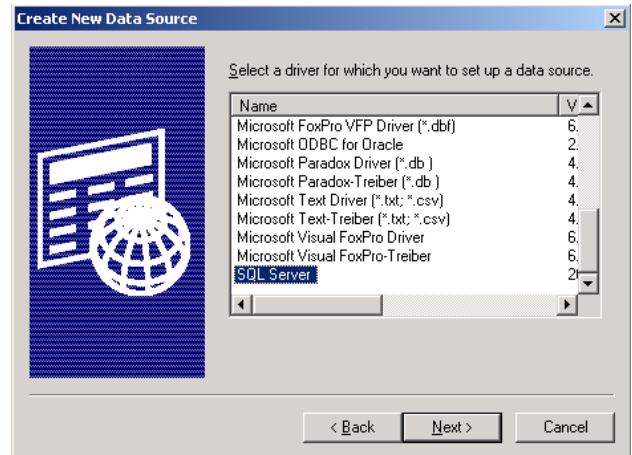


Fig. 6 Select driver of Data Source

9. Click **Finish** in the next window and the window shown in Fig. 7 will open.

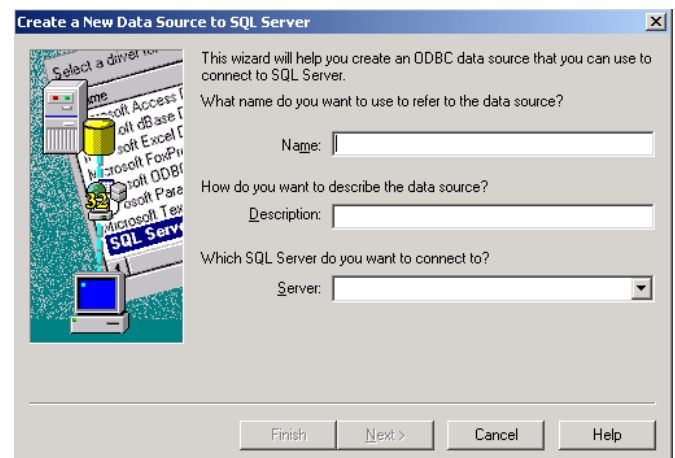


Fig. 7 Enter Name, Description and Server of Data Source

10. Enter a name for this ODBC connection and enter a description if you wish to do so.
11. In the **Server** box, select the SQL server that you wish to connect to. Select **(local)** if you want to connect to the machine you are working on. Click **Next** when finished.
12. If you selected local server in the previous page, leave this page as it is and click **Next**. If you selected a different SQL server, choose to log in with that SQL server's authentication, enter the authentication information, and click **Next**.
13. In the next page of the wizard, check the **Change the default database to check box**.

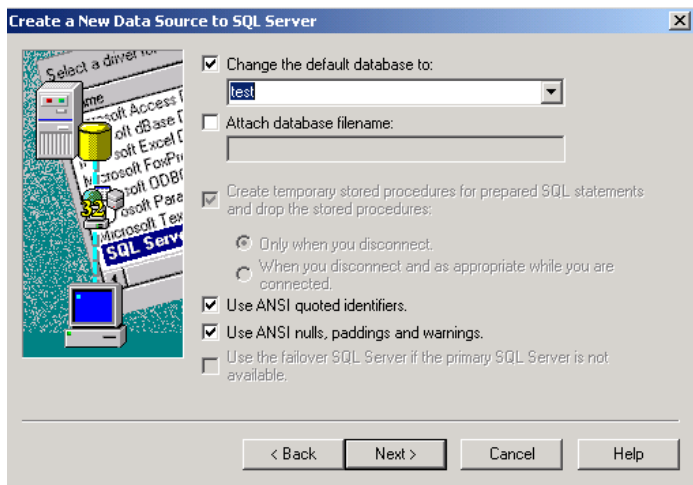


Fig. 8 Change the default database

14. In the drop-down box, select the database that you created before. This is so that you will be writing to the database that you want to.
15. Click **Next** and click **Finish** in the next page.
16. 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.
17. The database that you have connected to will be automatically selected. Click **OK**.
18. Log in to the SQL Server you selected. It is advised to use trusted connection.
19. Now you are connected to the database that you will be logging data to. The table that you have defined in the **Table(s) Management** tab before will be created in this database once you start the logger.
20. Before you start the logger, you have to define the logging group. Right click on the database group you defined just now and select **New → Logging Group**.

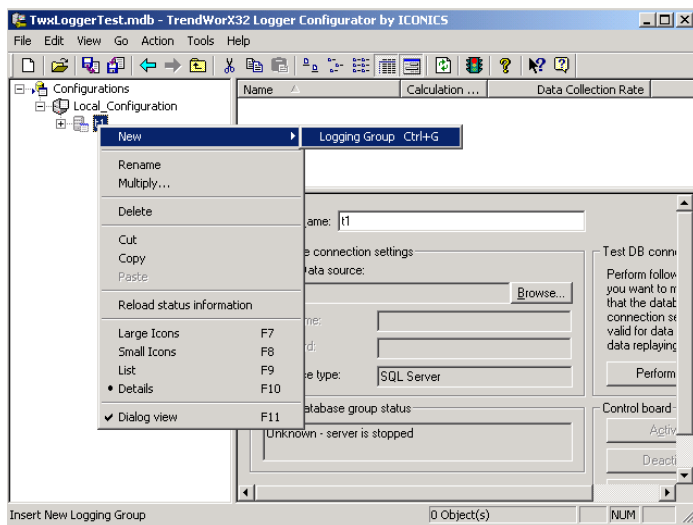


Fig. 9 Creating a new Logging Group

21. Enter a name for this logging group.
22. In the **Table Name** field in the **Table(s) Management** tab, enter a name for the table you want to log to. Click **Apply** when finished.
23. Now, define the tags you want to log data from. Do this by right clicking on the logging group and selecting **New → OPC Tags** or **Expression Editor**.

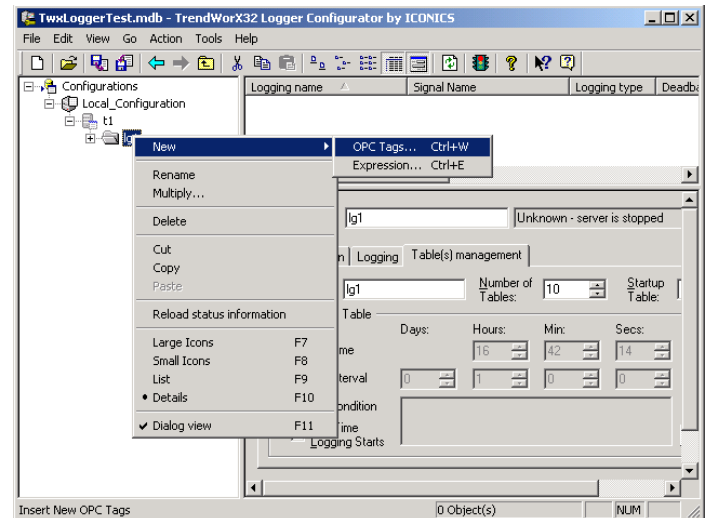


Fig. 10 Defining OPC Tags

24. Make sure the configuration is made **Active**.
25. Start the logger by clicking on the traffic light button in the toolbar or from the **Action** menu.

## To View the Database:

1. Open the **MSDE Database Manager** if you logged using MSDE or **Server Enterprise Manager** if you used MS SQL.
2. Expand the tree until you see **Database**. Click on it and you should see the database that you have created and is logging data to.
3. Double click on your database, and double click **Tables**.
4. You should see the table that you have requested TrendWorX32 Logger to log to.
5. Double click on the table to open it and view the logged data.