



Description: Guide to setting up alarm logging to MSDE and MS SQL databases.

OS Requirement: Win NT/2000/XP/2003

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

Database Setup

SQL setup:

1. Create a database using SQL Server Enterprise Manager.

MSDE setup:

1. Install MSDE from the tools folder in the Iconics CD. Restart if prompted to do so.
2. Open MSDE Database Manager from the tools folder of the Genesis32 folder in Start Menu (requires GENESIS32 installation).
3. Double click on '**local**' in the Server Explorer pane and a connect window should open as shown in **Fig.1**.

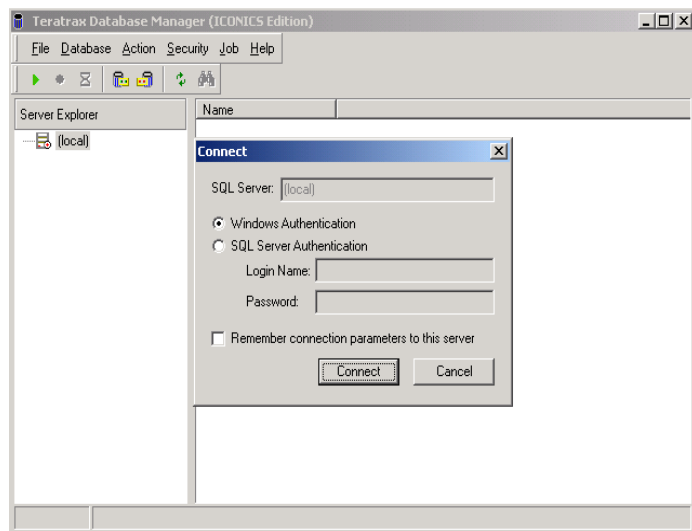


Fig. 1 Connect to the desired SQL server

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

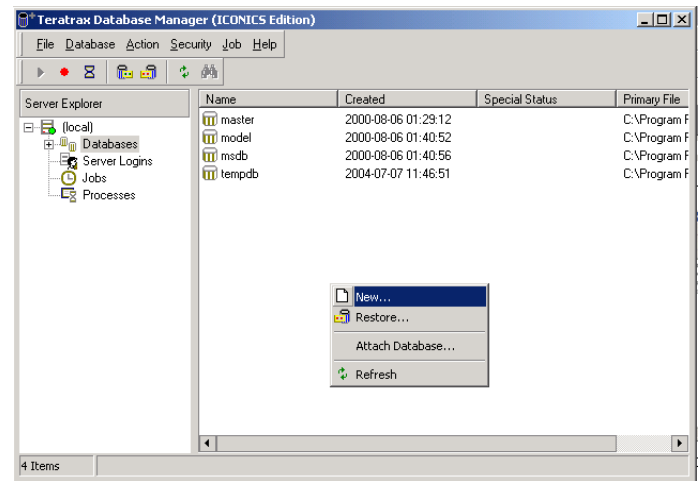


Fig. 2 Create new database

6. Enter the name you want in the **database_name** field in between the square brackets. Do not hit 'Enter'.

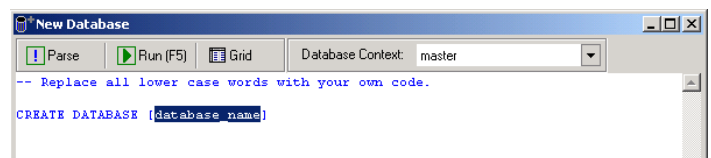


Fig. 3 Enter name of new database

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

Logging Configuration for MSDE or MS SQL databases

1. Open the Alarm Logger Configurator from **Start→ Programs → ICONICS GENESIS-32 → AlarmWorX32**.
2. Save a backup copy of this configuration before you make any changes.
3. Extend the **Configurations** tree and you should see a default configuration.
4. Click on the default configuration.
5. Check the **Enable Database Logging** check box.
6. Choose a **Table Name** under **Table(s) Management**. This will be the name of the table that the data will be logged to.
7. Under the **Database Connection** tab, you should see an **ODBC Data Source** edit box with the words '**Not available – using configuration DB**'.
8. Click on the '**...**' button beside it to open the **Select Data Source** window and go to the **Machine Data Source** tab.

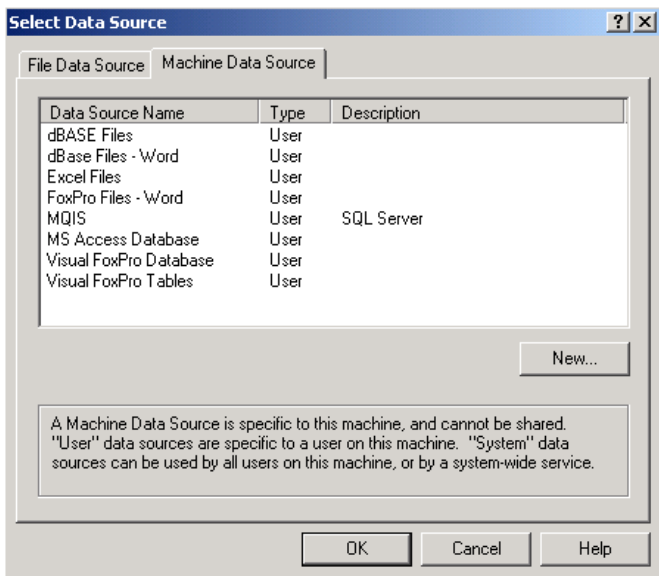


Fig. 4 Select Machine Data Source

9. Click on **New** to create a new data source.
10. Select **System Data Source** and click **Next**.

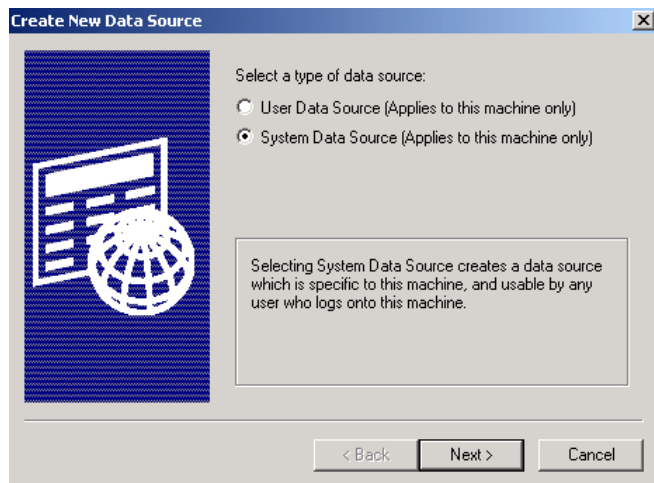


Fig. 5 Create new Data Source

11. Select **SQL Server** in the driver menu and click **Next**.

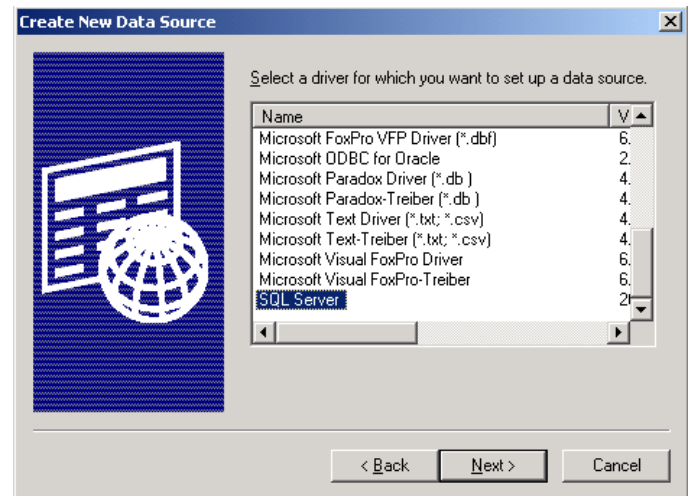


Fig. 6 Select driver of Data Source

12. Click **Finish** in the next window and the **Create a New Data Source to SQL Server** window will open.

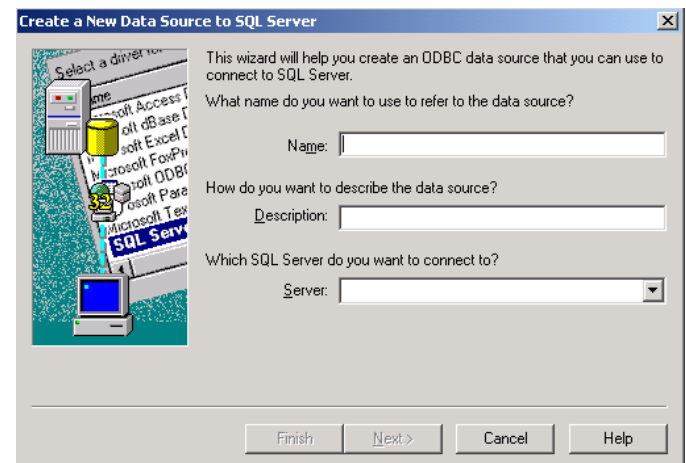


Fig. 7 Enter Name, Description and Server of Data Source

13. Enter a name of this ODBC connection and enter a description if you wish to do so.
14. 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.
15. Click **Next**.
16. 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, log in and click **Next**.
17. In the next page, check the **'Change the default database to'** check box.

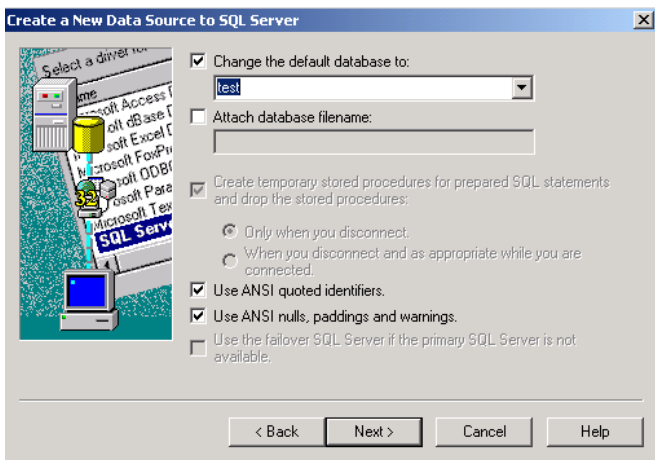


Fig. 8 Change the default database

18. Select the database that you created before. This is so that you will be writing to the database that you want to.
19. Click **Next** and click **Finish** in the next page.
20. A confirmation window will open, shown in **Fig. 9**.

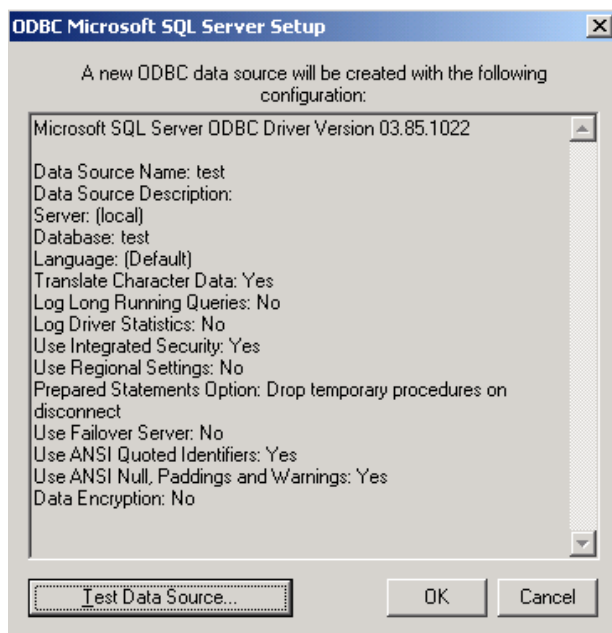


Fig. 9 ODBC Data Source confirmation

21. Test the data source connection if you wish to by clicking on the **'Test Data Source'** button. Click **'OK'** when you are done.
22. The database that you have connected to will be automatically selected. Click **'OK'**.
23. Log in to the SQL Server you selected. It is advised to use trusted connection.
24. Now you are connected to the database that you are going to log 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.

25. Start the logger by clicking the traffic light button on the toolbar or in the Action menu.

Note: There is a different Applications Note on Data Logging. This Applications Note is just about making a SQL database connection.

To View the Database

1. Open the MSDE Database Manager if you are using MSDE or the SQL Server Enterprise Manager if you are using 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 then double click **Tables**.
4. You should see the table that you have requested defined in the Alarm Logger Tables Management configuration.
5. Double click the table to open it and see the data.