AlarmWorX32 Logger – Quick Setup for Logging to MSDE/MS SQL

APPLICATIONS NOTE

December 2007

Description: Guide to setting up alarm logging to MSDE and MS SQL databases.
OS Requirement: Win 2000 Pro/Server, XP Pro, Server 2003
General Requirement: MSDE 2000/ MS SQL 2000 Server installed on the machine.

Database Setup

SQL setup:
Create a database using SQL Server Enterprise Manager.

MSDE setup:
1. Install MSDE from the tools folder on the GENESIS CD. Restart if prompted to do so.
2. Open MSDE Database Manager from **Start → Programs → ICONICS Tools → MSDE Manager**
3. Double click on **'local'** in the Server Explorer pane and a connect window should open as shown in Figure 1.

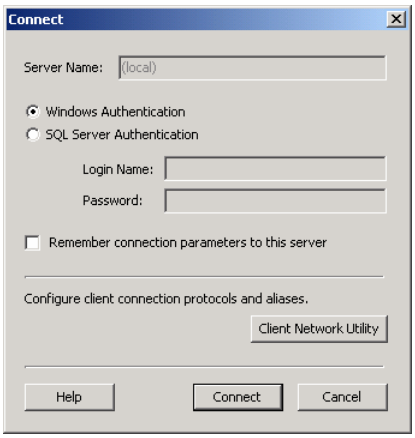

Figure 2 - Connection Dialog

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.
6. Enter the name you want in the **database1** field in between the square brackets. DO NOT hit "Enter".

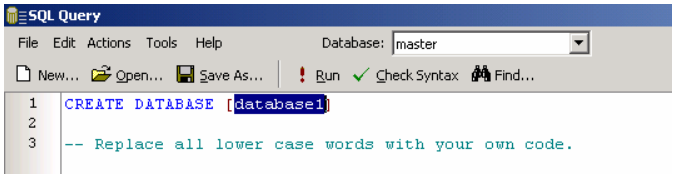

Figure 3 - New Database Dialog

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. You may need to refresh the window before the new database is visible.

Logging Configuration for MSDE or MS SQL databases

1. Open the Alarm Logger Configurator from **Start→ Programs → ICONICS GENESIS-32 → AlarmWorX32 → Alarm Logger Configurator**.
2. Save a backup copy of this configuration before you make any changes.
3. Expand the **Configurations** tree and you should see the 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 where your the data will be logged.
7. In the Primary Data Source Area, you should see "Not available – using configuration DB" in a grayed out text box.
8. Click on the **"…"** button beside it to open the **Select Data Source** window and go to the **Machine Data Source** tab.

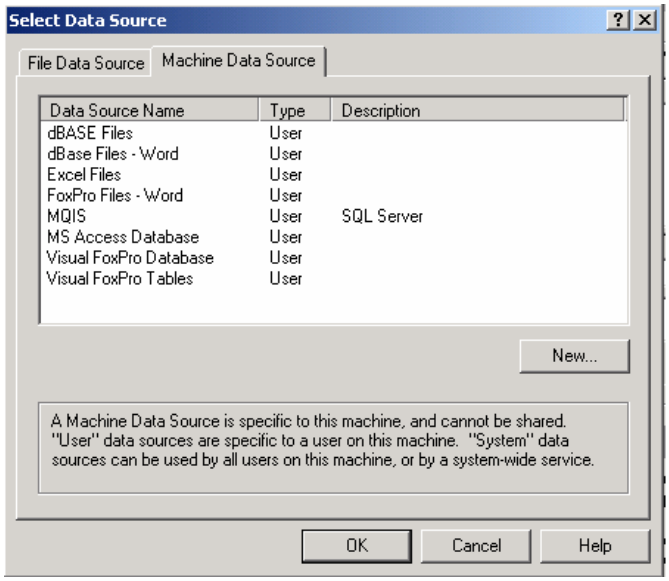

Figure 4 - Select Data Source Dialog

9. Click on **New** to create a new data source.
10. Select System Data Source and click **Next**.
11. Select **SQL Server** in the driver menu and click **Next**.
12. Click **Finish** in the next window and the **Create a New Data Source to SQL Server** window will open.
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 then click **Next**.
15. 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**.
16. In the next page, check the "**Change the default database to**" check box.

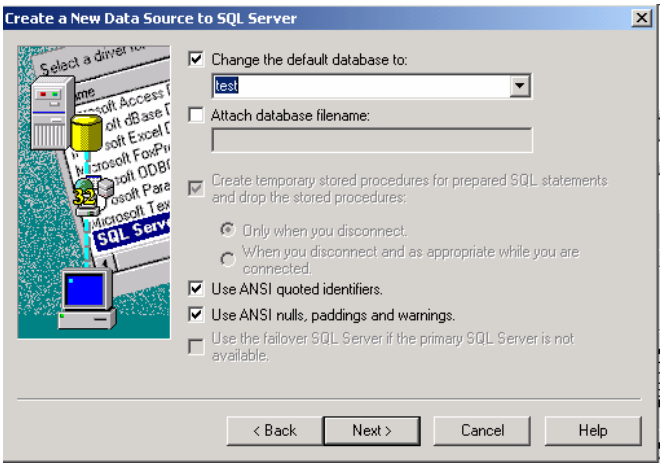

Figure 5 - Change the Default Database

17. Select the database that you created before.
18. Click **Next** and then **Finish** on the next page. A confirmation window will open, shown in Figure 6.

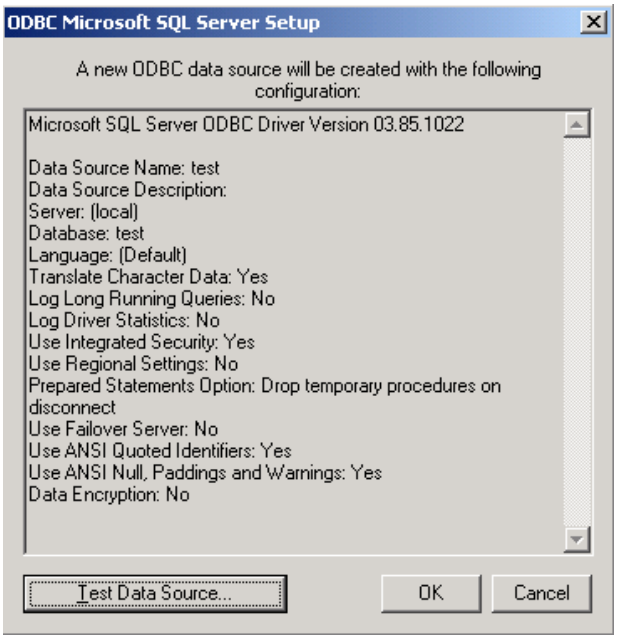

Figure 6 - ODBC Data Source Confirmation

19. Test the data source connection if you wish by clicking on the **"Test Data Source"** button. Click **"OK"** when you are done.
20. The ODBC Data Source that you have just created will automatically be selected. Click **"OK"**.
21. Log in to the SQL Server you selected. It is advised to use trusted connection.
22. 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.
23. Start the logger by clicking the traffic light button on the toolbar or in the Action menu.

Note: For more information on logging in general, please refer to the application note entitled *AlarmWorX32 Logger – Alarm Logger Quick Start*.

Viewing the Database

Open the MSDE Database Manager if you are using MSDE or the SQL Server Enterprise Manager if you are using MS SQL. Expand the tree until you see **Databases**. Click on it and you should see the database that you have created and where you are now logging data.

Double-click on your database and then double-click **Tables**. You should see the table that you have requested defined in the Alarm Logger Tables Management configuration. Right-click on the table and select **"Query All Rows"** in the MSDE Database Manager or **"Open Table" → "Return All Rows"** in Enterprise Manager.