



Description: Guideline to tuning MSDE for best performance
OS Requirement: Windows NT/XP/2000/ 9X/Me
General Requirement: This app note requires installation of MSDE 7.x or MSDE 2000.

less memory, and leave more memory available for other processes. For systems that are logging a large amount of data to MSDE you should use a computer with more RAM.

MSDE Database Settings

1. Open the **MSDE Manager** from **Start, Programs, ICONICS GENESIS-32, Tools.**

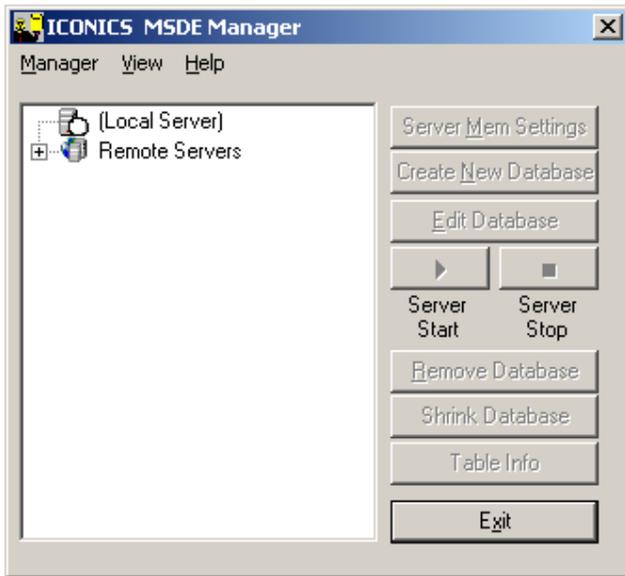


Fig.1 ICONICS MSDE Manager

2. Double click on the server that you wish to configure (in this example we will use the local MSDE server).
3. You will then see the message shown below. If you are sure that the server is running then press OK.

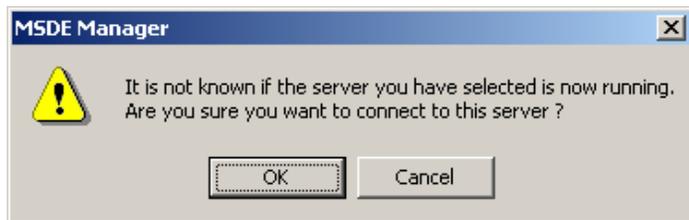


Fig.2 Connect to server message

4. Highlight the server that you connected to and press the "Server Mem Settings" button to adjust the minimum and maximum memory usage of the MSDE Server. Set a small Max value to ensure that the AlarmWorX32 and TrendWorX32 loggers do not use up too much memory. For example, if your computer has 256MB of RAM, then you could set the Max Memory usage as 128MB and leave the Min as 0. If this computer is running many other tasks, then you may wish to use

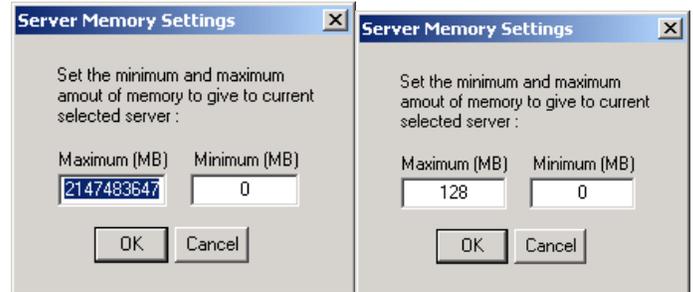


Fig.3 MSDE Memory Settings

5. After pressing OK you will be notified that you should STOP and START the MSDE Server before the settings will be applied.
6. Create a new MSDE database by pressing the "Create New Database" button. Give it a name and select a path to store the database. Try to anticipate how large the database will be and make the initial size that large. Do not make the database too small and grow by small increments or it will cause your system to slow down significantly.

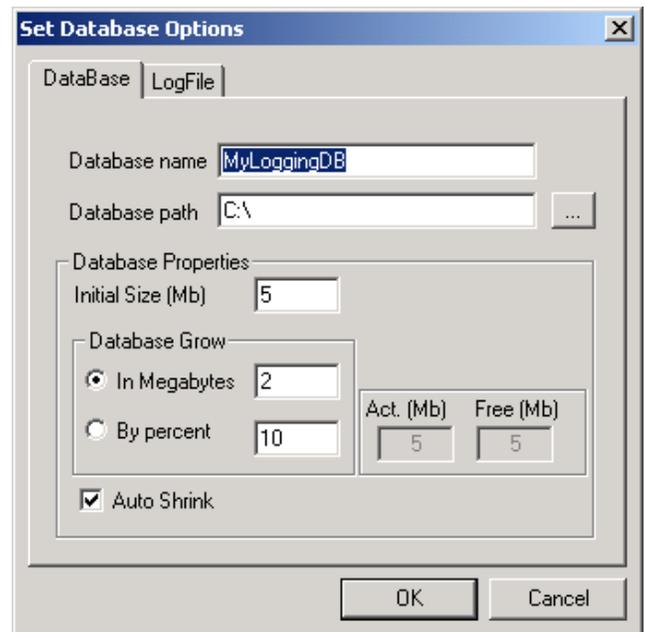


Fig.4 Database Options

7. The Logfile Properties tab allows you to configure the size of the log file. The MSDE database logfile will record information that pertains to each database transaction so it could also grow to be large. However, you do not need to worry as much about slowing down

your computer because of the format of the logfile, which allows for convenient file growth.

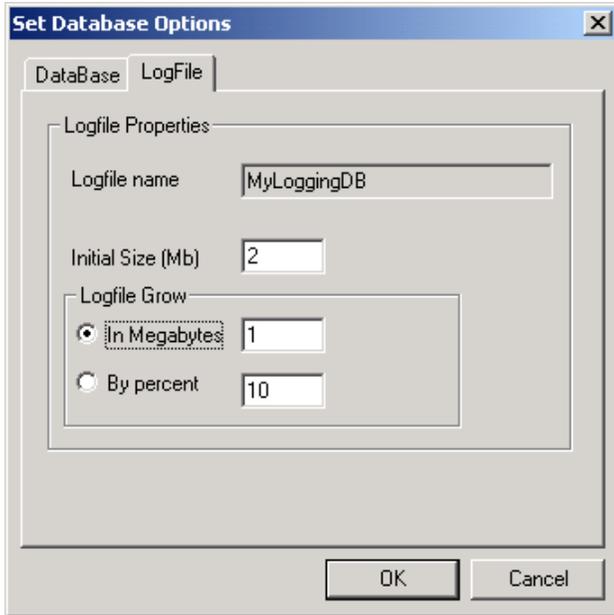


Fig.5 LogFile Properties

- The MSDE database is now ready for logging. When configuring your ODBC Data Source you must select the database that you just created.

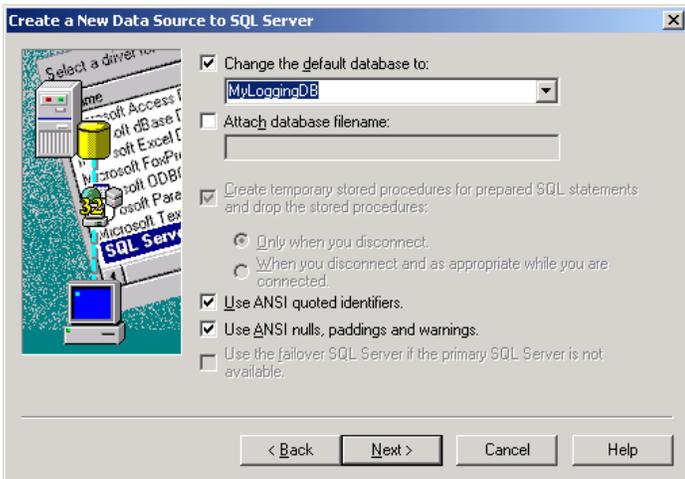


Fig.6 ODBC Data Source configuration

- Start your AlarmWorX32 Logger or TrendWorX32 SQL Data Logger. Then close and re-open MSDE Manager. You will see the configured table in the database that you created.

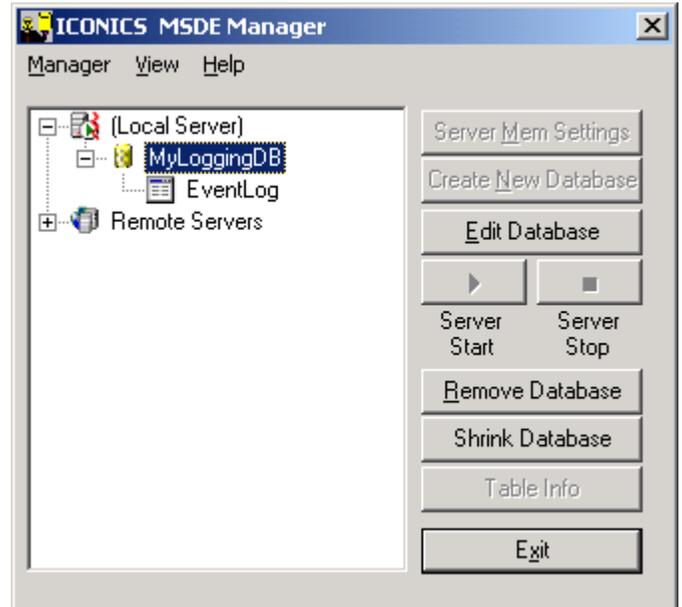


Fig.7 Log table in configured database

- You can highlight the new table and press the “Table Info” button to get useful information about this table.

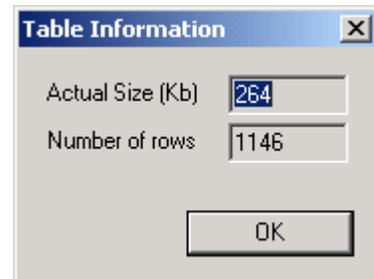


Fig.8 Table Information

If you find that SQL or your logging utility is still using up too much memory then try decreasing the Maximum Memory setting for the server. If you have plenty of memory available but it is not running very fast, then try increasing the Maximum Memory for the MSDE Server.

*Note: When logging to MSDE you must have a local license on the same computer. Logging to MSDE will not work if you are using a remote license.