

**Description:** Guide to logging Alarms to an Oracle8 Database

**OS Requirement:** Win 2000, XP Pro, Server 2003, Vista, Server 2008, Windows 7

**General Requirement:** Oracle v8.0.5.10.0 Server already installed on the PC.

### Introduction

AlarmWorX32 Logger offers a way to archive the alarms or events that occurred. The alarm logger is an OPC A/E Client, that you could subscribe to either alarm or event servers to log information. Once the server hands the logger the information, it is all logged into a specified database (i.e. MS Access, MS SQL, etc). This functionality provides a clean record keeping method.

The default configuration database that ships with the product is ready to be used. It shows you all the names of the columns that will appear in the log database. It already has a subscription to the alarm server and the event server and it even requests additional alarm attributes.

The only thing left for you to do is to tell the logger where it needs to log the data to. This document will guide you through the steps to log data to an Oracle database.

### Oracle Database Setup

1. Create a new database in Oracle to log your alarm history. In this example, we will refer to this database as the “AlarmHistory” database.  
  
**NOTE:** You can ask your Oracle System Administrator for additional help.
2. After you have successfully created a database, add a “USER” and password for this database which we will use for the ODBC configuration.
3. Upgrade the Oracle ODBC drives to version 8.0.5.10. You can download it from <http://otn.oracle.com/software/tech/windows/odbc/content.htm>.  
  
**NOTE:** If the alarm logger is on a separate computer from the Oracle Server, you should install Oracle Enterprise Edition 8.0.5.0.0 (Oracle Client) on the client PC, and run the upgrade on the client as well.
4. You may have to run the Oracle Installer in order to install the new ODBC Driver.  
  
**NOTE:** You can ask your Oracle System Administrator for assistance in upgrading your Oracle server and client machines.
5. After you installed the upgrade on the server and clients, run “Oracle Net8 Easy Config” on the client machine.
6. Add a new service and give the service a name that you remind you the server machine where Oracle is running.

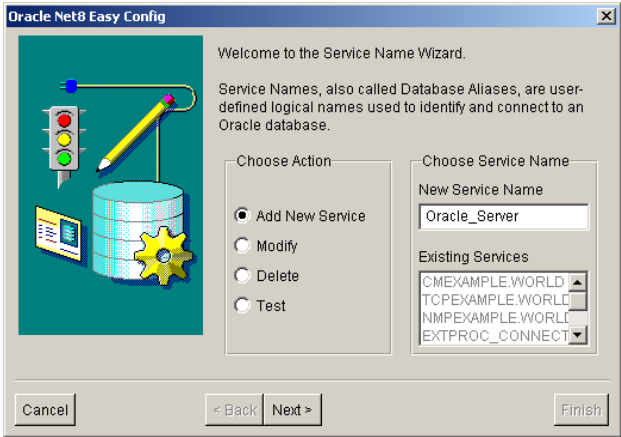


Figure 1 - Adding a TNS Listener to Connect

7. Choose TCP/IP service, using prot 1521 (default port) and type in the name of your Oracle Server for the host name.

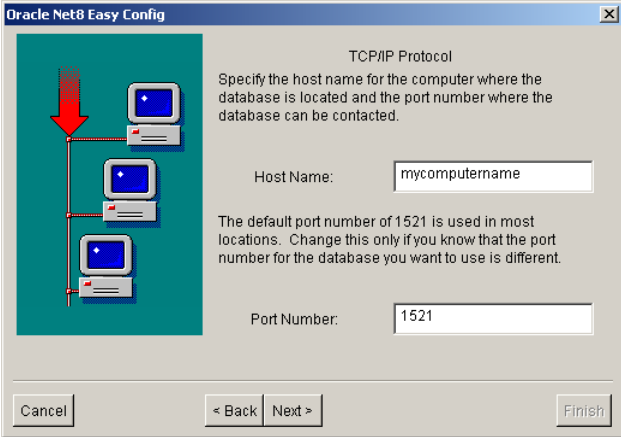


Figure 2 - Setting up the TNS Listener

8. Set the Database SID to ORCL (default).
9. Test the connection to make sure that it works.

### Setting up an ODBC Data Source

1. Launch the ODBC Data Source Administrator by going to Start → Settings → Control Panel → Administrative Tools → Data Sources (ODBC)
2. Select the System DSN tab and click on the “Add...” button.

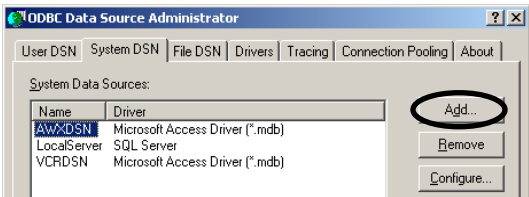


Figure 3 - Creating a System DSN

- In the Create New Data Source dialog, select “Oracle ODBC Driver” and click on “Finished”

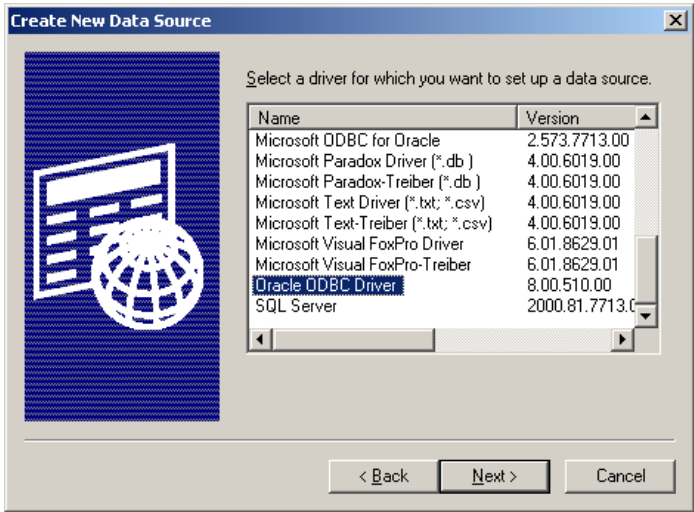


Figure 4 - Adding a New ODBC Data Source

- In the Oracle 8 ODBC Driver Configuration dialog, give your Data Source a Name, select the TNS Service Name that you have created in Step 6 of Oracle Database Setup.
- Give it the User ID that you have created in step 2 of Oracle Database Setup.

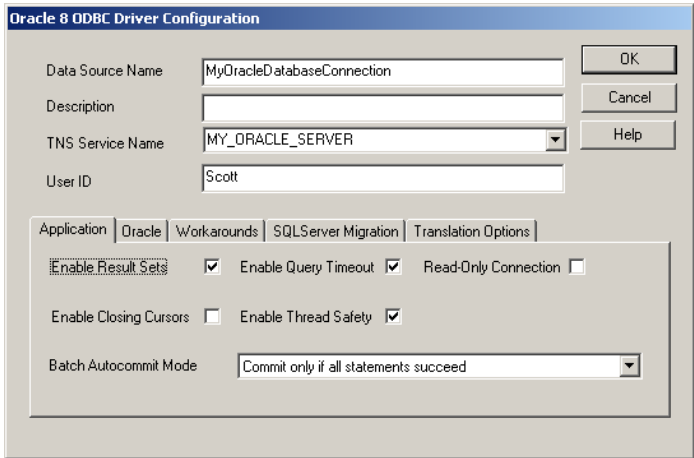


Figure 5 - Oracle 8 ODBC Driver Configuration

**NOTE:** The service name may not be in the drop down list if your Oracle Server is not running.

- Once you are done configuring the ODBC data source, click on “OK”.
- A login dialog window will open. Type in the corresponding password for the user you have entered in the User ID field of the configuration and click on “OK”.

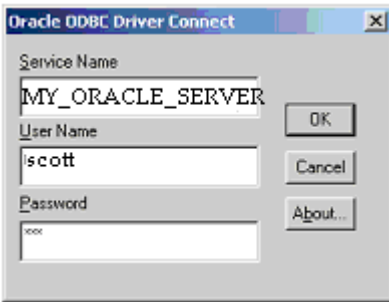


Figure 6 - Oracle ODBC Drive Connect

- You know have an ODBC Data source.

### Configuring the Alarm Logger

- Start the Alarm Logger by going to Start → Programs → ICONICS GENESIS32 → AlarmWorX32 → Alarm Logger Configurator.
- Select your configuration on the left-hand pane and click on the “Browse” button in the Primary Data Source section in the right-hand pane.
- In the Select Data Source window, click on the Machine Data Source tab, select the data source that you have just created and click on “OK”

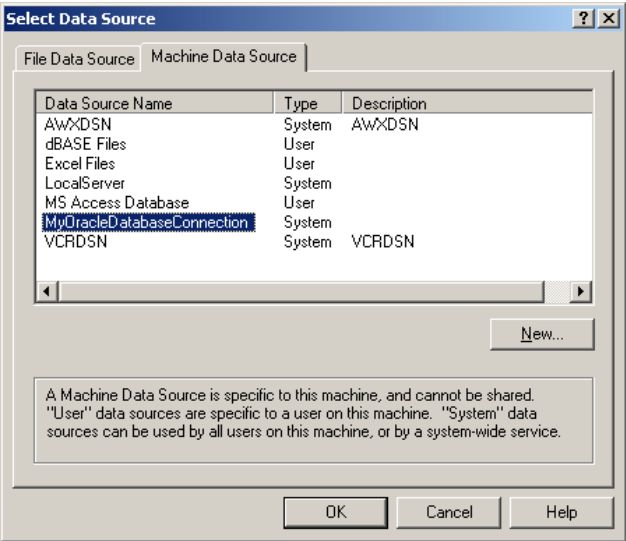


Figure 7 - Selecting Your ODBC Data Source in AlarmWorX32 Logger

- You will be asked to login again. Click on “OK” once you have entered the password.
- You are now set up to log data to the Oracle database.

**NOTE:** For more information on how to setup the AlarmWorX32 Logger Configurator to log alarms, please refer to the application note entitled *AlarmWorX32 Logger – Alarm Logger Quick Start*.