

Description: Guide to logging Alarms to an Oracle 9i Database

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

General Requirement: Oracle 9i Server already installed on the local computer.

Introduction

The AlarmWorX32 Logger allows you to log your alarms and events into a database, creating a record of what happened. This document will detail the steps to set up the AlarmWorX32 Logger for logging information to an Oracle database.

The AlarmWorX32 Logger supports the following features for Oracle:

- Logging alarms to an Oracle database
- Specify table name, max table size, and max logging interval.
- Configure archive tables, including number of archive tables, table size, and table interval.

Creating a New Oracle Database

You have to create a new database in Oracle before configuring your Alarm Logger to log Alarm History. Please ask your Oracle System Administrator for additional help if you do not know how to create a new database.

Once you have a database created for alarm logging, add a “USER” and Password for this database, which will be required in the ODBC configuration. Set the properties for the new user as shown in Figure 1.

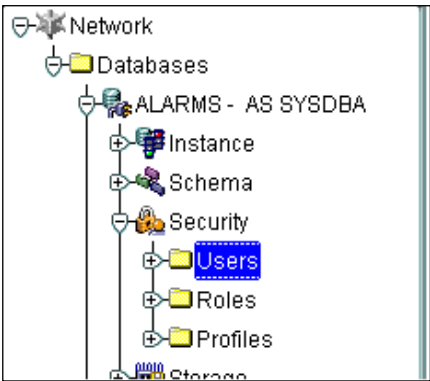


Figure 1 - Adding a User and Password

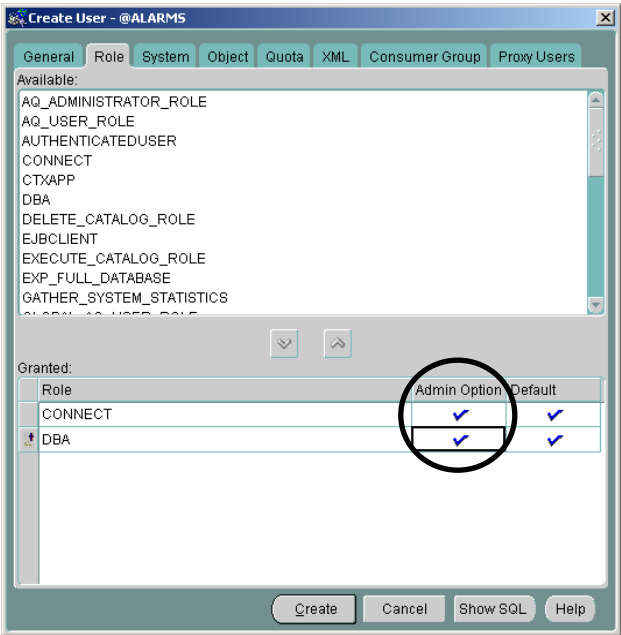


Figure 2 - Oracle User Permission

Alarm Logger Configuration

1. Open Alarm Logger Configurator from Start → Programs → ICONICS Genesis32 → AlarmWorX32 → Alarm Logger Configurator.
2. If you do not have an active configuration already, click on File → New and follow the on screen direction to create a new configuration database.
3. Add your alarm attributes by right clicking on the configuration and selecting New Column Definition.
4. Make sure to add a node name and link the node to a configuration.
5. Click on the Configuration that you have created, and select the Database Logging Tab, click on Database Connection if it is not already the selected pane.
6. Check “Enable Data Logging” and click on the “Browse” button.

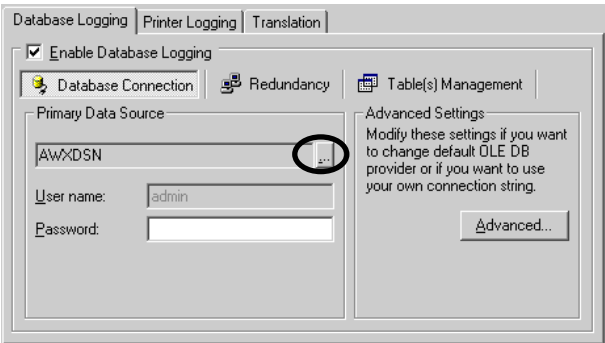


Figure 3 - Connecting to an ODBC Data Source

7. The “**Select Data Source**” Window will open up as shown in Figure 4. Select **Machine Data source**, and **click on New**.

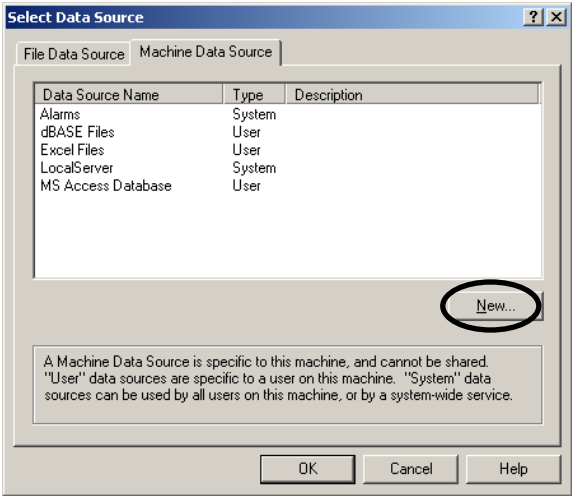


Figure 4 - Select Data Source

8. The **Create New Data Source** window will open up as shown in the Figure 5. Select **System Data source** and **click on Next**.

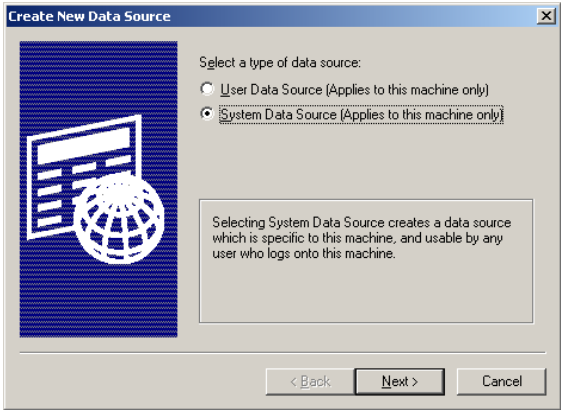


Figure 5 - Create New Data Source

9. Select the **Oracle Driver** from the list of drivers as shown in Figure 6. **Click Next** to continue.

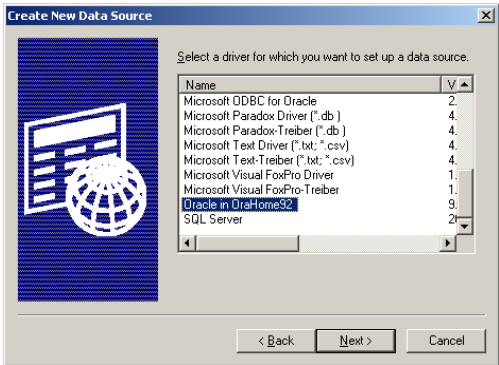


Figure 6 - Select Oracle Driver

10. The selected driver will be shown. If you want to make any changes click **Back**, otherwise **click on Finish** to create a new DSN and connect to a Database.
11. Give your data source a name.
12. For the TNS Service Name, select the Alarms Database that you have created from the dropdown list.
13. Specify the user-id you have created (the new user).
14. Test the connection by clicking on the “**Test Connection**” button when you are done.
15. Click “**OK**” to save it after you have had successful test connection.

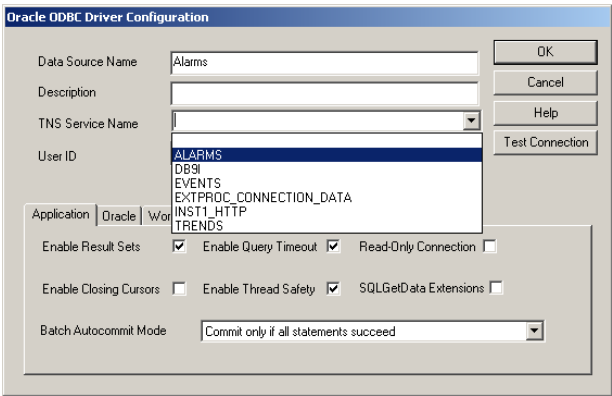


Figure 7 - Configuring the Data Source

16. A login window will open. If you have a password corresponding to the user id, type the password and click “**OK**”. See the figure below:

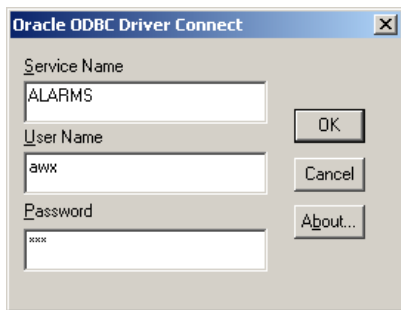


Figure 8 - Oracle Login Dialog

17. The login window will be closed, and you come back to the Machine Data source window. The data source should be selected in the list. **Click OK** to come back to the Alarm Logger Configurator.
18. You will have to type in the password again in the logger configurator for security purposes. **Click on Apply** to save the changes.

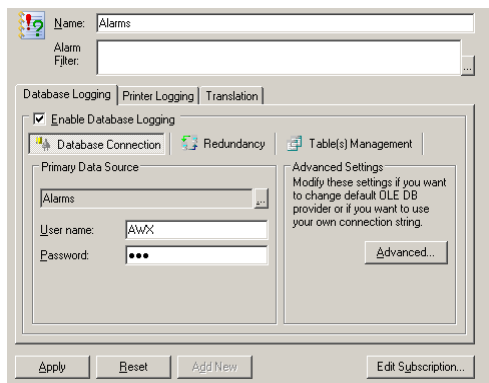


Figure 9 - Logger Configuration Password

19. **Click on Tables Management button**, and specify the table name, and the archiving of records etc. **Click on Apply** to save the changes.

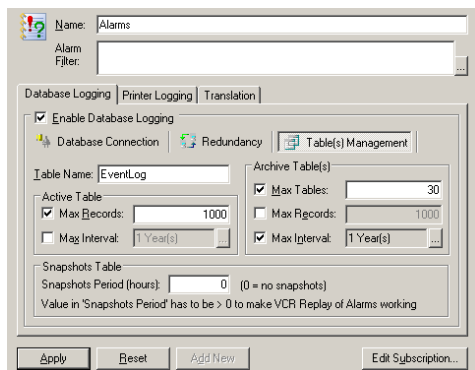


Figure 10 - Table Management

20. Make the configuration Active and start the Alarm Logger.

Verifying Logged Data

1. To see the alarms in the database, open **Enterprise Manager Console**.
2. Open the Alarms Database. Expand Alarms → Schema → AWX (the user you created) → Tables. You should see your table.

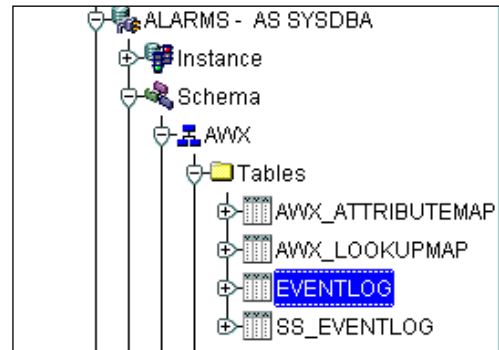


Figure 11 - AlarmWorX32 Logger Table in Oracle

3. Right click on the Table name, and click on **View/Edit Contents** from the popup menu. This will show the data present in the database.

CHANGEMASK	EVENTTYPE	SEVERITY	QUALITY	ACTORID	ACKCOMMENT	CV	LIN
51	Condition	500	GOOD			42	50
51	Condition	500	GOOD			97	79
51	Condition	500	GOOD			0	0
1	Condition	500	GOOD			68	50
32	Condition	500	GOOD			4	19
33	Condition	500	GOOD			35	50
32	Condition	500	GOOD			1	25
32	Condition	500	GOOD			30	39
1	Condition	500	GOOD			70	25
1	Condition	500	GOOD			43	39
33	Condition	500	GOOD			25	25
32	Condition	500	GOOD			79	75
33	Condition	500	GOOD			69	59
1	Condition	500	GOOD			59	75
32	Condition	500	GOOD			82	79
32	Condition	500	GOOD			8	19
33	Condition	500	GOOD			6	25
32	Condition	500	GOOD			21	39
32	Condition	500	GOOD			46	60

Figure 12 - Viewing Data in the Table