

**Oracle® Enterprise Single Sign-on Suite Plus
Reporting**

Oracle Database Configuration Guide

Release 11.1.1.5.0

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About Oracle Enterprise Single Sign-on Suite Plus Reporting

Oracle Enterprise Single Sign-on Suite Plus Reporting provides organizations with the ability to create reports to leverage all data and events that routinely take place in the day-to-day usage of Oracle Enterprise Single Sign-on Suite Plus.

The Reporting sub-system consists of 4 main components:

- **Centralized Database** – contains all event information required for Reporting.
- **Web-based Reporting Administrative Console** – accesses the SQL Database and generates reports using the event records. Reports may also be manually generated by querying the Oracle Database. The Oracle Database is not accessible through the Reporting Administrative Console.
- **SSO Reporting Service** – collects audit/reporting events into the database.
- **Oracle Enterprise Single Sign-on Suite Plus Products** - captures event information and sends the events to the SSO Reporting Service.

About this Guide

This guide describes how to configure the Oracle Database to start storing events for Reporting to access. The instructions in this guide are based on Oracle Database 11g being configured on a Windows Server 2003. Readers of this document should have a solid understanding of Oracle Database 11g.

Database Configuration Overview

The following is a brief overview of the procedures that you must follow in order to successfully configure the Oracle database to work with Reporting.

- [Create the Oracle Database User](#)
- [Create the Database Table](#)
- [Set up Stored Procedures](#)
- [Create Connection String](#)
- [Configure Oracle Database on Client machines](#)
- [Next Steps](#)

Create the Oracle Database User

You must create one user and grant the appropriate privileges to them. This user will be the SSO Database table owner.

Launch the database in which you want to create the user and enter the following command in the SQL*Plus tool:

```
SQL> create user username identified by password default tablespace
user_tablespace temporary tablespace temp_tablespace;
```

where *user_tablespace* is the default tablespace identified by the database administrator to store user objects, and *temp_tablespace* is identified to store temporary objects.

For example:

1. Start SQL*Plus (the Oracle SQL command line tool), and type the following commands to log in:
\$ **sqlplus**
2. Press **Enter**.
3. Enter user-name: **username/password@dbname**
where **username** is an existing administrative user in the database. For example, system/manager will log the administrative user system with a password of manager into the default database.
4. Create the user, grant these two default roles and their corresponding default privileges to the user that you created, and log out of the SQL command line tool:
SQL> create user *orauser* identified by *oracle* default tablespace
USERS temporary tablespace *TEMP*;
SQL> grant CONNECT , RESOURCE to *orauser*;
SQL> exit

Create the Database Table

Once the Oracle Database User is created, you must create a table by executing the following SQL script by using SQL*Plus (the Oracle SQL command line tool):

```
$ sqlplus <username>/<user password> < <path_to_
file>\tblEventsLog.sql
```

where *username* is *orauser*, *user_password* is *oracle*, and *path_to_file* is the path to SQLscript file.

For example:

```
$ sqlplus orauser/oracle < tblEventsLog.sql
```

Set Up Stored Procedures

Execute the following SQL script by using SQL*Plus (the Oracle SQL command line tool):

```
$ sqlplus <username>/<user password> < <path_to_file>\sp_
WriteEventsAsIs.sql
```

```
$ sqlplus <username>/<user password> < <path_to_file>\sp_
WriteEvents.sql
```

where *username* is *orauser*, *user_password* is *oracle*, and *path_to_file* is the path to SQLscript file.

For example:

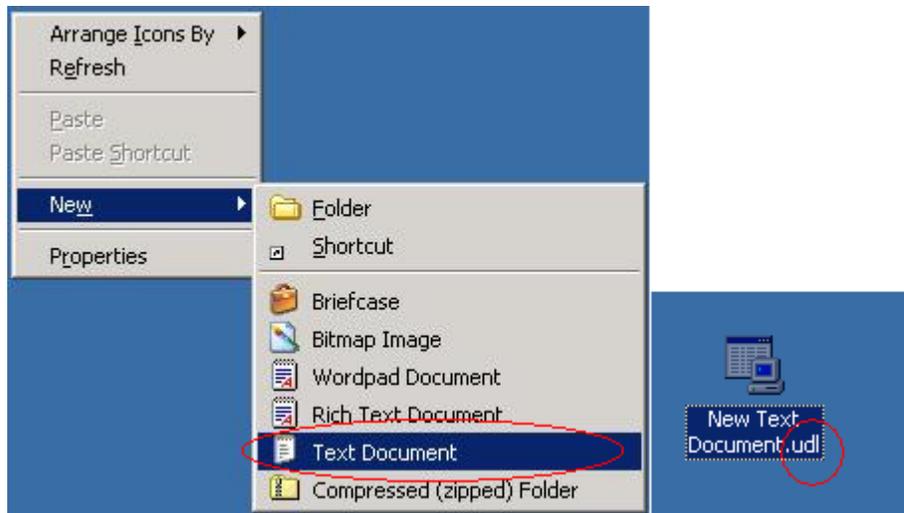
```
$ sqlplus orauser/oracle < sp_WriteEventsAsIs.sql
```

```
$ sqlplus orauser/oracle < sp_WriteEvents.sql
```

Create Connection String

In this section, you will create a connection string that will be used in the following section, [Configure the Oracle Database on Client Machines](#).

1. Open Windows Explorer and navigate to the folder in which you want to store the .udl file.
2. From the File menu, click **New** and then click **Text Document**. A new file named New Text Document.txt appears in the directory.
3. Rename this file, removing all spaces and changing the file extension to **.udl**, for Universal Data Link.



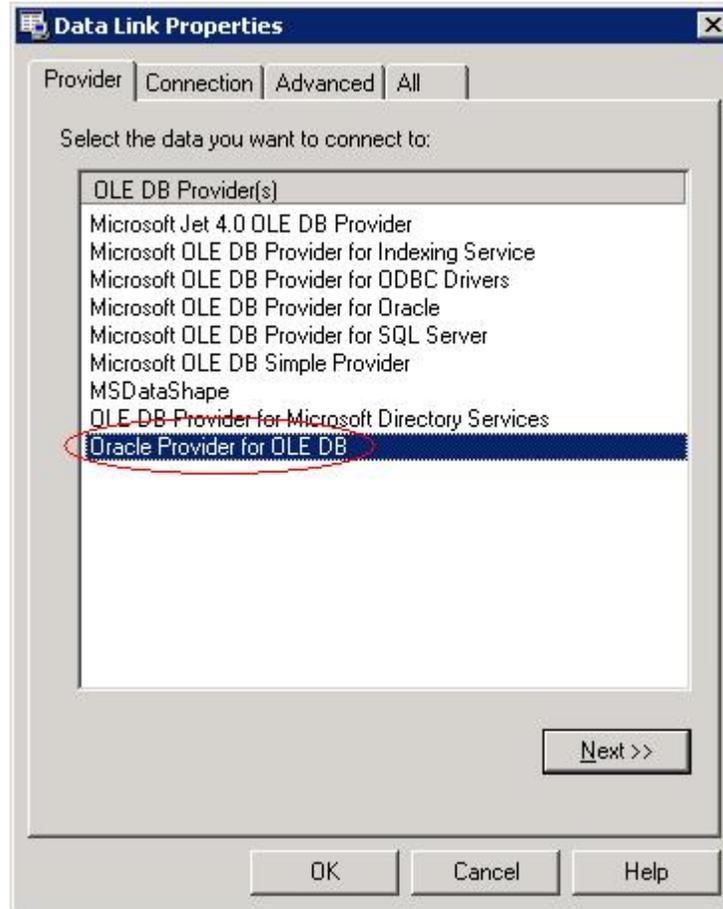
4. Double-click the Universal Data Link (.udl) file. The Data Link Properties dialog opens.

The screenshot shows the 'Data Link Properties' dialog box with the 'Provider' tab selected. The dialog is titled 'Data Link Properties' and has a close button in the top right corner. Below the title bar are four tabs: 'Provider', 'Connection', 'Advanced', and 'All'. The 'Provider' tab is active. The main area contains the following elements:

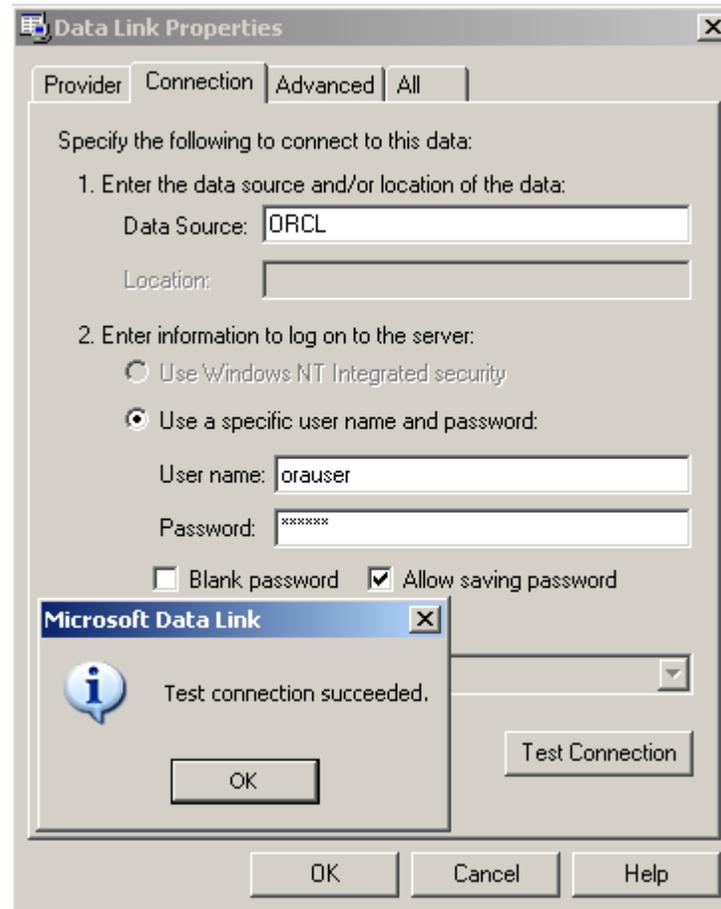
- Text: 'Specify the following to connect to ODBC data:'
- Section 1: '1. Specify the source of data:'
 - Radio button (selected): 'Use data source name' with a dropdown menu and a 'Refresh' button.
 - Radio button: 'Use connection string' with a 'Build...' button below it.
- Section 2: '2. Enter information to log on to the server'
 - Text: 'User name:' followed by a text input field.
 - Text: 'Password:' followed by a text input field.
 - Checkboxes: 'Blank password' and 'Allow saving password'.
- Section 3: '3. Enter the initial catalog to use:' followed by a dropdown menu.
- Button: 'Test Connection'.

At the bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Help'.

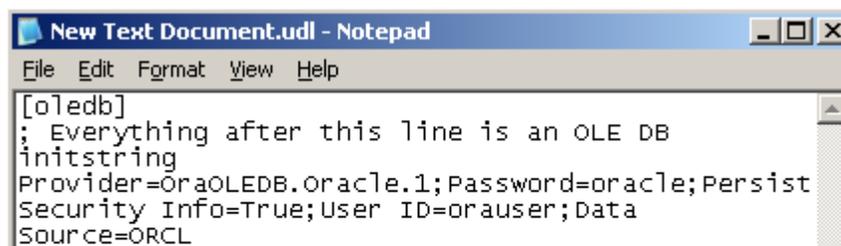
5. On the **Provider** tab, select **Oracle Provider for OLE DB** and then click **Next**.



6. On the **Connection** tab, enter the **Data Source**, **User name**, and **Password**. Check the **Allow saving password** checkbox and click **Test Connection**. For example: Data Source: ORCL, User name: orauser, Password: oracle.

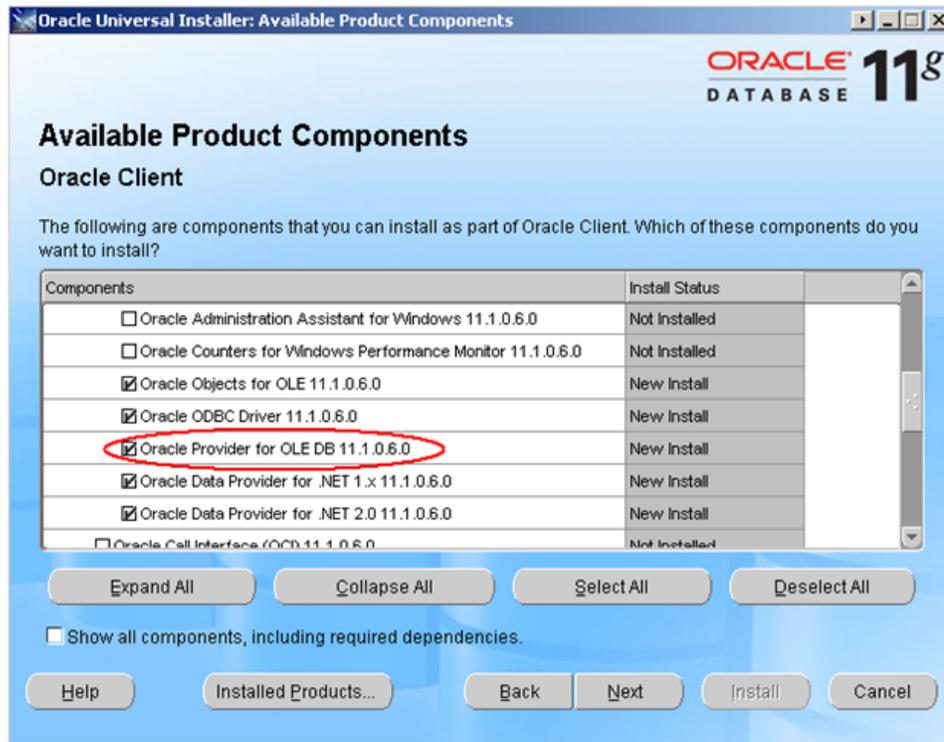


7. A message will appear indicating that the test connection succeeded. Click **OK**.
8. Click **OK** to save the connection string to the Universal Data Link (.udl) file.
9. Open the .udl file in Notepad. In the [next section in this guide](#) you will be instructed to enter a connection string. Copy and paste this string and enter it into the **Connection string** field.

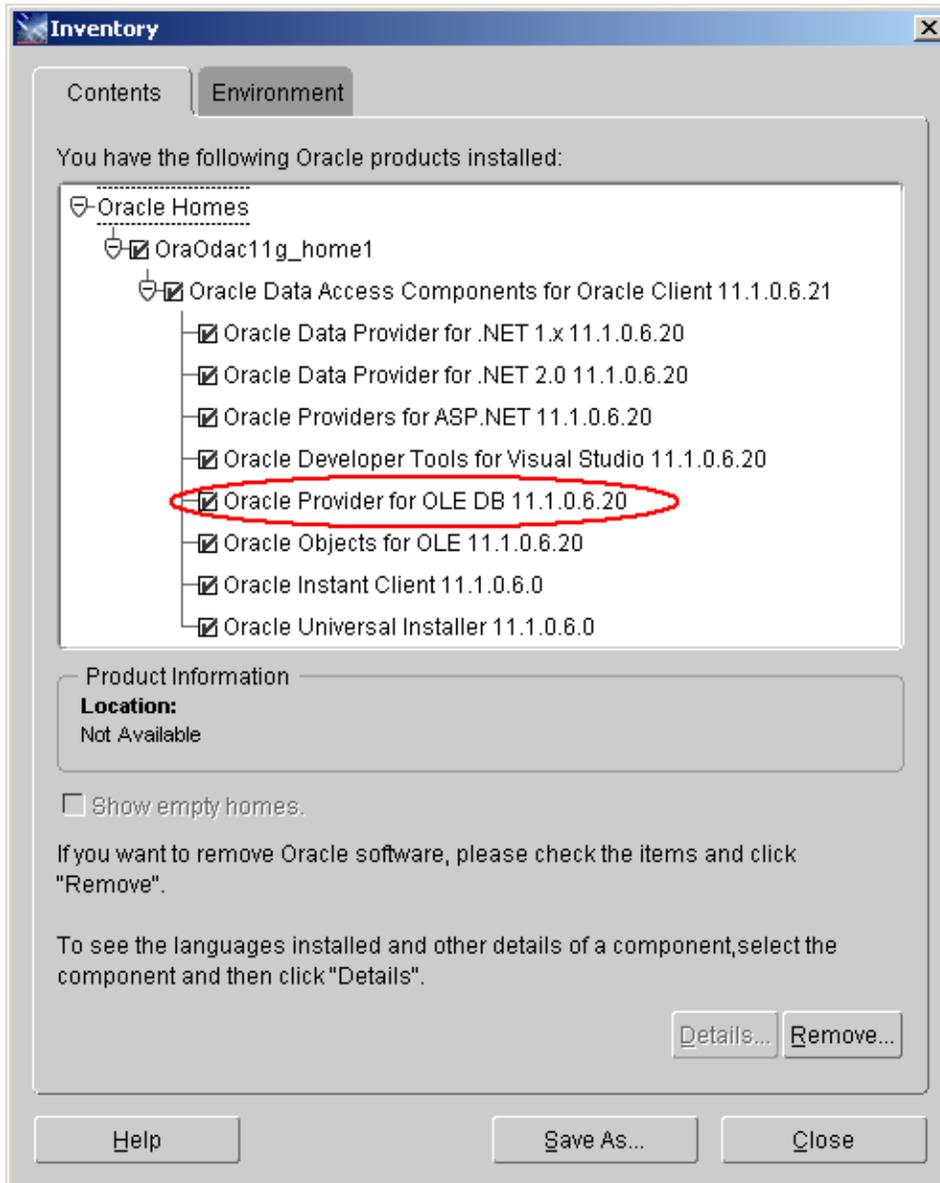


Configure the Oracle Database on Client Machines

1. Install either Oracle Client with Oracle Provider for OLE DB or Oracle DataAccess Components for Oracle Client.



or



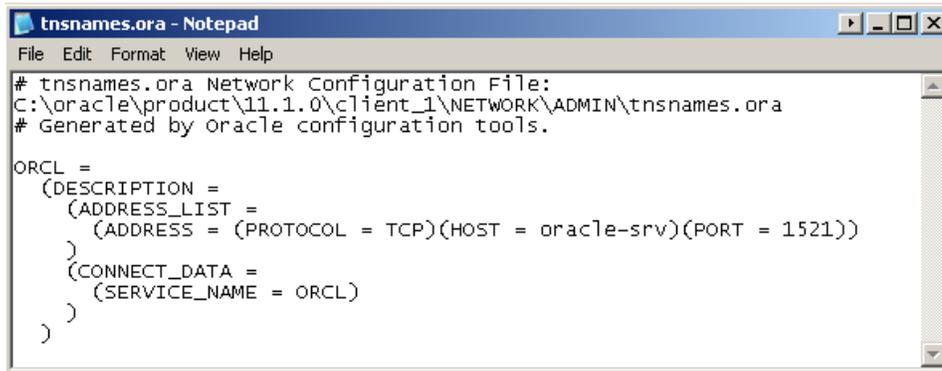
- Next, you must configure the Oracle Client for connection to the Oracle Server. Edit or create the following create file:

```
<Oracle Home\client_1\Network\Admin\tnsnames.ora:
```

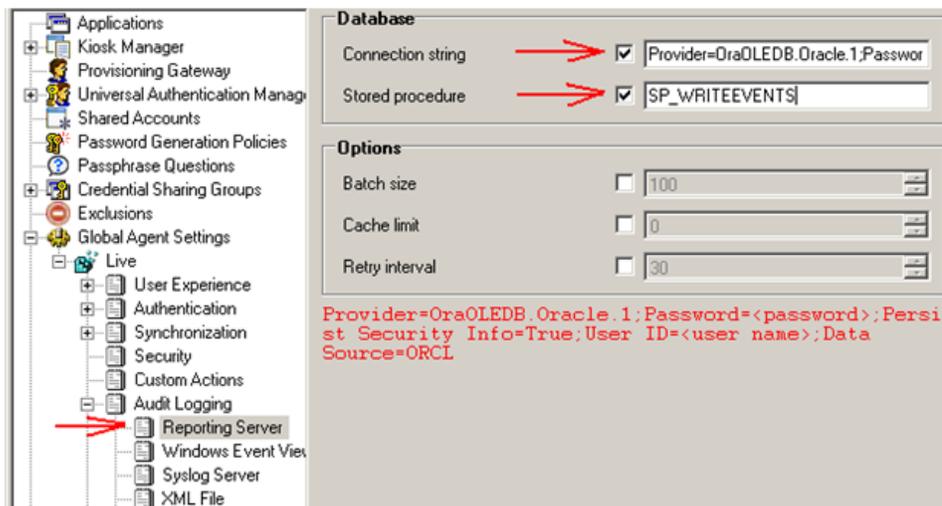
```
``# tnsnames.ora: Network Configuration File:
C:\oracle\product\11.1.0\client_1\NETWORK\ADMIN\tnsnames.ora
# Generated by Oracle configuration tools.
```

```
ORCL =
(DESCRIPTION =
  (ADDRESS_LIST =
    (ADDRESS = (PROTOCOL = TCP) (HOST = <oracle host server name>) (PORT =
```

```
1521))
)
(CONNECT_DATA =
  (SERVICE_NAME = ORCL)
)
)
```



3. Launch the ESSO-LM Administrative Console by clicking **Start > Programs > Oracle > ESSO-LM Console**.
4. In the tree, right-click **Global Agent Settings**, click **Import**, then click **From live HKLM**.
5. Under **Global Agent Settings > Live**, expand **Audit Logging > Reporting Server**.
6. Copy and paste the **Connection string** created in the previous section. For example:
 "Provider=OraOLEDB.Oracle.1;Password=<password>;Persist Security Info=True;User ID=<user name>;Data Source=ORCL"
7. Set the Stored Procedure setting to:
 "SP_WRITEEVENTS"



8. Right-click **Live** and click **Write to Live HKLM**.
9. Close the ESSO-LM Administrative Console.

Next Steps

Once the database is configured for storing events, you must set up the Oracle Enterprise Single Sign-on Suite Plus products to capture event information and send the events to the SSO Reporting Service, which will save it to the database.

Refer to the *Configuring ESSO-LM to Log Events for Reporting* guide for instructions on how to perform this setup.



Oracle Enterprise Single Sign-on Suite Plus Reporting version 11.1.1.5.0 only supports Client-side events for ESSO-LM version 11.1.1.5.0.