

Quick Start: DataDirect Connect[®] for ADO.NET Oracle Data Provider

The following basic information enables you to connect with and test your DataDirect Connect[®] for ADO.NET data providers immediately after installation. For installation instructions, please see the [DataDirect Connect for ADO.NET Installation Guide](#). Code examples in this document assume you are using C# and Visual Studio 2005.

Connecting to a Database

Once a DataDirect Connect for ADO.NET data provider is installed, you can connect from your application to your database with a connection string using either the common programming model or the DataDirect Oracle data provider-specific objects.

Using the Common Programming Model

- 1 Check the beginning of your application. Make sure that the ADO.NET namespaces are present.

```
// Access Oracle

using System.Data;
using System.Data.Common;
```

- 2 Add the connection information of your server and exception handling code and close the connection.

```
DbProviderFactory factory = DbProviderFactories("DDTek.Oracle");
DbConnection Conn = factory.createConnection();
Conn.CommandText = "host=Accounting1;Port=1521;Service Name=test;User
ID=test01;Password=test01";

try
{
    Conn.Open();
    Console.WriteLine("Connection successful!");
}
catch (Exception ex)
{
    // Connection failed
    Console.WriteLine(ex.Message);
}
// Close the connection
Conn.Close();
```

Using the Provider-specific Objects of the DataDirect Oracle Data Provider

- 1 In the Solution Explorer, right-click **References**.
- 2 Click **Add Reference**; then, select **DataDirect Technologies Oracle Data Provider** Version 3.1.0 or higher in the component list.
- 3 Click **OK**. The Solution Explorer now includes the Oracle data provider.

- 4 Check the beginning of your application. If the data provider's namespace is not present, add it, as shown in the following C# code fragment:

```
// Access Oracle
using System.Data;
using DDTek.Oracle;
```

- 5 Add the connection information for your server and exception handling code and close the connection:

```
OracleConnection Conn = new OracleConnection("host=Accounting1;Port=1521;Service
Name=test;User ID=test01;Password=test01");

try
{
    Conn.Open();
    Console.WriteLine ("Connection successful!");
}
// Display any exceptions in a messagebox
catch (OracleException ex)
{
    // Connection failed
    Console.WriteLine(ex.Message);
}
// Close the connection
Conn.Close();
```

Testing the Connection

You can test the connection using a small C# application in Visual Studio 2005.

- 1 Create a small Windows test application (refer to the Microsoft .NET Framework documentation).
- 2 Add a button to the default form that is created for you.
- 3 Follow the steps in the "Connecting to a Database" section above, making sure that you modify the connection string values for your Oracle server, Password, user ID, and Service Name. Add the code shown in Step 5 of that procedure to the button's click event.
- 4 Save the test application.
- 5 To test the connection, click the button in the test application.

Tuning the Data Provider for Optimal Performance

To tune the data provider for optimal performance, run the DataDirect Connect *for* ADO.NET Performance Tuning Wizard, which is installed along with the product and is also available from the DataDirect Web site (http://www.datadirect.com/products/net/performance_tuning_wizard/index.ssp). The Performance Tuning Wizard leads you step-by-step through a series of questions about your application. Based on your answers, the Wizard provides the optimal settings for performance-related connection string options.

The Wizard runs as an applet within a browser window. To run the Wizard, one of the following browsers must be installed:

Microsoft Internet Explorer 6 or higher
Netscape 4.x or higher
FireFox 1.0 or higher

In addition, the browser must be configured to run applets. Refer to your browser's documentation for instructions on configuring your browser.

NOTE: Security features set in your browser can prevent the Performance Wizard from launching. A security warning message is displayed. Often, the warning message provides instructions for unblocking the Performance Wizard for the current session. To allow the Performance Wizard to launch without encountering a security warning message, the security settings in your browser can be modified. Check with your system administrator before disabling any security features.

Starting the Wizard

You can start the Wizard in the following ways:

On Windows, you can start the Wizard by selecting it from the DataDirect Connect *for* ADO.NET program group.

On all platforms, you can start the Wizard by launching the following file from your browser, where *install_dir* is your DataDirect Connect *for* ADO.NET data provider installation directory:

```
install_dir /wizards/index.html
```

Tuning Performance With the Wizard

After you start the Wizard, a Welcome window appears. Click **Start** to start the process and select a data provider. When you have answered all questions for a data provider, results are displayed in the Results window. You can copy the results to use in your application or in an ADO.NET connection string. In addition, you can copy and paste the results into a text file for reference.

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