

SequeLink[®] 6.0 Client *for* ODBC

The following basic information enables you to connect with and test the SequeLink 6.0 Client *for* ODBC driver immediately after installation. For installation instructions, please refer to the [Sequelink Installation Guide](#). This document assumes that you have already installed the SequeLink Server for the database to which you are connecting.

Connecting to a Database and Testing the Connection

Once the DataDirect SequeLink 6.0 Client *for* ODBC driver is installed, you can connect to your database. The following sections provide the information you need to get started. For more detailed information, please refer to the [SequeLink Developer's Reference](#).

Windows

On Windows, you use the ODBC Administrator to create and manage ODBC data sources.

Configuring the Data Source

1. Start the ODBC Administrator to display a list of data sources.
2. Click **Add** on the User or System DSN tab to display a list of data sources. Select **DataDirect SequeLink 6.0** and click **Finish** to display the DataDirect SequeLink for ODBC Setup dialog box.
3. On the General tab, provide the following information; then, click **Apply**.
 - **SequeLink Server Host:** Type the TCP/IP host name of the SequeLink service to which the ODBC Client will connect.
 - **SequeLink Server Port:** Type the TCP/IP port the SequeLink service is listening on for connection requests. The port you specify must be the same port that was specified for the SequeLink service when the SequeLink Server was installed; the default is 19996.
 - **SequeLink Server Data Source:** Type the name of a server data source configured for the SequeLink service to use for the connection, or click the ... button to select an existing server data source. This field is optional. If a server data source is not specified, the default server data source for that SequeLink service is used.

Testing the Connection

1. At the bottom of the Driver Setup dialog box, click **Test Connect** to test the connection. If the driver can connect, it releases the connection and displays a connection established message. If the driver cannot connect because of an improper environment or incorrect connection value, it will display an appropriate error message.
2. Click **OK** or **Cancel** at the bottom of the Driver Setup dialog box. If you click **OK**, the values you have specified become the defaults when you connect to the data source.

Connecting with a Connection String

From your application you can use a connection string to connect to the data source, which has the following format:

```
DSN=data_source_name[;attribute=value[;attribute=value ]...]
```

For example: `DSN=mySLDSN;UID=myUID;PWD=myPWD;DB=myDB`

UNIX

An ODBC Administrator does not exist for UNIX; you must edit the `odbc.ini` file (for the 32-bit driver) or `odbc64.ini` (for the 64-bit driver) file using a text editor.

Environment Setup

- 1 Check your permissions:** Log in as a user with full r/w/x permissions recursively on the entire DataDirect SequeLink Client *for* ODBC installation directory.
- 2 Determine which shell you are running:** Execute the `env` command.
- 3 Run the DataDirect Technologies setup script to set variables:** Two scripts are installed in the installation directory for each ODBC Client.

For Korn, Bourne, and equivalent shells, execute `.sqlnk.sh` (for the 32-bit Client) or `.sqlnk64.sh` (for the 64-bit Client).

For a C shell, execute `. sqlnk.csh` (for the 32-bit Client) or `. sqlnk64.csh` (for the 64-bit Client).

Executing this shell script sets the following environment variables:

- **ODBCINI:** specifies where the centralized `odbc.ini` or `odbc64.ini` file is located. DataDirect SequeLink 6.0 Client *for* ODBC is installed with a template `odbc.ini` in the installation directory. For example:

```
$ ODBCINI= /opt/odbc/odbc.ini; export ODBCINI
```
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- **SQLNK_ODBC_HOME:** specifies the full path of the directory containing the DataDirect SequeLink Client *for* ODBC shared libraries.
- Library search path

Test Loading the Driver

The `ivtestlib` tool is a utility to verify that the driver can be loaded into memory; it is located in the `installation_directory/tools` directory. For example, to load the SequeLink driver on Solaris, you would enter:

```
$ ivtestlib /usr/slodbc60/6_00_00/lib/ivslk22.so
```

Setting up an ODBC Data Source in the odbc.ini

The default odbc.ini installed in the installation directory is a template into which you enter your site-specific connection information using a text editor. Each ODBC data source has its own section in the template. On Solaris, for example, you might enter:

```
[ODBC Data Sources]
mySLDSN=DataDirect SequeLink 6.0

[mySLDSN]
Driver=/usr/slodbc60/6_00_00/lib/ivslk22.so
Description=DataDirect SequeLink 6.0
Host=bowhead
Port=19996
UseLDAP=0
DistinguishedName=
Encrypted=0
LoadBalancing=0
AlternateServers=
ConnectionRetryCount=0
ConnectionRetryDelay=3
```

Testing the Connection

The SequeLink 6.0 Client *for* ODBC installation includes a program called "example" that can be used to connect to a data source and execute SQL. The application is located in the *installation_directory/example* directory. To run the program, type `example` and follow the prompts to enter your ODBC data source name, user name, and password. If successful, a `SQL>` prompt appears and you can type in SQL Statements such as `SELECT * FROM table_name`. If example is unable to connect, the appropriate error message appears.

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6/07, 6.0