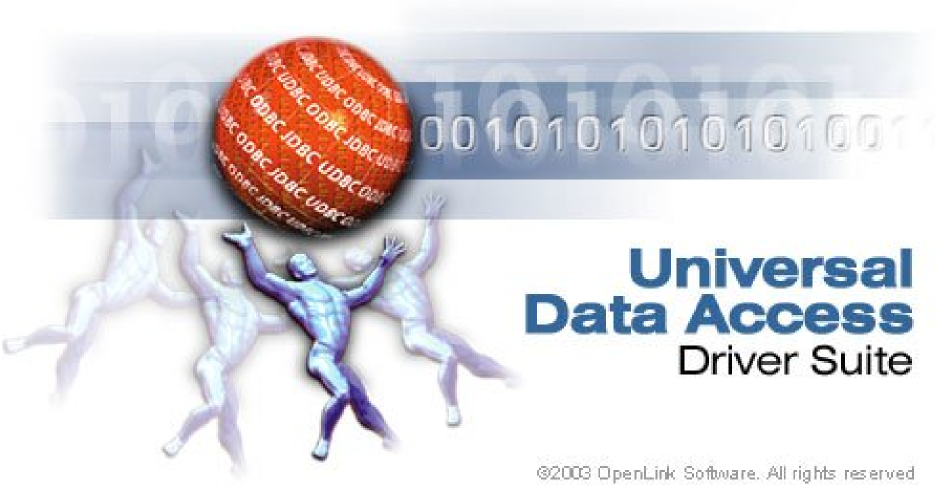

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2 Chapter 1. OpenLink ODBC Driver (Express Edition) Documentation

Abstract
OpenLink Express Edition drivers enhance the common perception of an ODBC driver - a single component installed on the desktop or workstation machine only - by not requiring any further installation of database-specific networking on the client, or components on the database-server. Once installed, it provides seamless connectivity to the databases. The Express Edition drivers have been designed in harmony with Apple's Mac Universal Platform. Maximum capability, minimum effort.

Table of Contents

- Overview
    - ♦ Driver Architecture
    - ♦ System Requirements
    - ♦ Installation and Configuration Guide
    - ♦ OpenLink Express Edition Drivers Installation and Configuration on Mac OS X

2.1 Overview

The OpenLink Express Edition driver is a client-only installation and goes some way to ensure the job for developers, administrators and end-users is simplified. Part of this process means installing the software in one location as opposed to numerous locations. By discarding the server-side setup, there is no server-side administration so the user has only a single entry-point for installation and administration. In the majority of cases, knowing the database by name is all that is required.

To the developer writing an application, there is no requirement to know on which server it resides: you can write your application for any environment, regardless of where it will end. There are also performance benefits gained by employing this single solution, which in some cases exceeds that provided by the database vendor's drivers. Being able to integrate your solution simply into your organization with its plethora of internal and disparate systems means your RoI increases significantly.

2.1.1 Driver Architecture

These drivers are built by implementing the ODBC data-access interface specifications directly connecting to the database. There are no limiting factors as with traditional Single-Tier solutions.

The Express Edition drivers are Type-B- or -C-based remote procedure calls (RPC) interface to the wire-protocol of the underlying database. This is a client-only interface that communicates directly with the remote database server. These interfaces typically are unavailable to third-party developers. To date the Open Source projects such as FreeTDS, MySQL, PostgreSQL and Interbase are the only publicly accessible and freely available versions of such interfaces.

The ODBC Express Edition drivers offer developers an opportunity to develop generic solutions across platforms without prior knowledge of the operating system hosting the Database server.

2.1.2 System Requirements

2.1.2.1 Software Requirements

You must have the following software to use OpenLink Express Edition ODBC Drivers:

- One or more ODBC-compliant application(s).
- A supported database server.
- The OpenLink Express Edition ODBC Driver for the target database server
- A valid license file for each required OpenLink Express Edition ODBC Driver.

2.1.2.2 Hardware Requirements

You must have the following hardware to use OpenLink Single-Tier Drivers for ODBC:

- A TCP/IP network connection to the database server from the client machine the Express Edition driver is installed on.
- An ODBC Application Host running an operating system that is supported by OpenLink Express Edition ODBC Drivers. The currently supported operating systems are Mac OS X 10.3 (PPC), Mac OS X 10.4 (PPC & Intel). Please check the OpenLink website http://www.openlinksw.com/ to verify availability of support for an operating system.

The ODBC client applications you want to use may have their own hardware or software requirements, which must also be satisfied.

2.1.3 Installation and Configuration Guide

This section provides a step-by-step guide for the installation and configuration of the OpenLink Express Edition drivers.

2.1.4 OpenLink Express Edition Drivers Installation and Configuration on Mac OS X

3 Chapter 2. Product Licensing

Table of Contents

- OpenLink License Manager Usage Notes
    - ♦ Background
    - ♦ Single-Tier
    - ♦ Multi-Tier
    - ♦ How to stop/start the OpenLink License Manager
    - ♦ Environment Variables
    - ♦ OpenLink License Manager Networking Considerations

3.1 OpenLink License Manager Usage Notes

3.1.1 Background

As of UDA release 6.0 and above, OpenLink have moved the handling of licenses from individual products into a specific License Manager process. This takes the form of an executable, (`oplmgr'), from which all OpenLink commercial products request licenses via network connections.

3.1.2 Single-Tier

OpenLink UDA Single-Tier is a single driver installed on the client only.

For releases 6.0, the oplmgr process was started automatically by the driver on first connection. As of release 6.1, this behaviour has changed; in order to facilitate use of License Manager process for administering licenses of all OpenLink products simultaneously on the same machine, the license-manager must be started explicitly started in advance of services that will use it. The release 6.1 installers now check if a License Manager (oplmgr) process is already running and if not start their own local instance.

3.1.3 Multi-Tier

OpenLink UDA Multi-Tier drivers comprise at least 3 components: a generic client installed on client machines, all of which contact a central request broker which spawns an RDBMS-specific database agent to connect to the specific database requested. The request-broker asks the license-manager for licenses for every connection requested.

For UDA release 6.0, the oplmgr process was started automatically by the request-broker (oplrqb). As of release 6.1, this behaviour has changed. In order that you should only need one license-manager per server, handling licenses for a variety of products (particularly combinations of Multi-Tier and OpenLink Virtuoso Universal Server), the license-manager must now be explicitly started before other services requiring it. The release 6.1 installers now check if a License Manager (oplmgr) process is already running and if not start their own local instance.

3.1.4 How to stop/start the OpenLink License Manager

The license manager takes the following commandline options:

```
      bash$ oplmgr --help
      OpenLink License Manager
      Version 1.2.2 as of Thu Feb 15 2007 (Release 6.0 cvsid 00084).
      Compiled for Linux 2.4.20-46.9.legacysmp
(i686-generic-linux-glibc23-32)
      Copyright (C) OpenLink Software.
      Usage:
      oplmgr [-shrutp] [+start] [+stop] [+reload] [+user arg] [+chroot arg]
      [+pidfile arg]
      +start     start the license manager
      +stop      stop the license manager
      +reload    force a configuration reload
      +user      run as the specified user
      +chroot    perform a chroot to the specified directory
      +pidfile   pid file to use for server operation
```

We recommend that you create an /etc/init.d/ script that runs `oplmgr +start' on boot-up.

3.1.5 Environment Variables

The OpenLink License Manager will search through directories in the OPL_LICENSE_DIR variable or failing that, the PATH environment variable, for files matching *.lic.

OpenLink recommends you use /etc/oplmgr/ to store your licenses; each product installation will include a copy of the oplmgr executable in its respective 'bin' directory, such that if this is the only OpenLink product on the system, it can be manually started and used for processing licenses with an appropriate OPL_LICENSE_DIR value. A generic system startup script is also being developed for Unix systems to enable the License Manager process to be automatically started on machine boot. If found, product installers will automatically append this to your OPL_LICENSE_DIR variable.

3.1.6 OpenLink License Manager Networking Considerations

The OpenLink License Manager sends and receives using the multicast IP address 224.0.0.24 on port 60001/udp to communicate between components and other license-managers that might be on your network. In the event that it cannot establish this multicast communication, it may cease allocating licenses, so in the event of license allocation-related errors, please check your firewall configuration permits this traffic.

4 Chapter 3. OpenLink ODBC Driver for DB2 (Express Edition)

Table of Contents

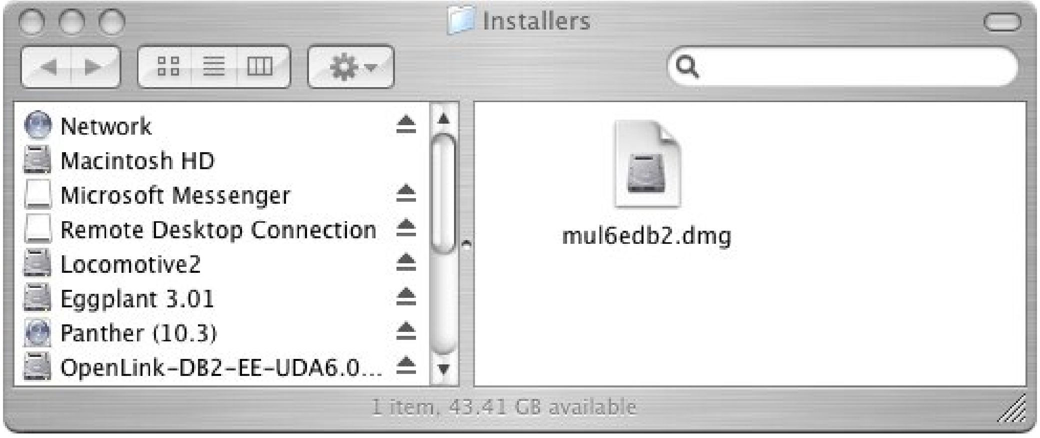
- OpenLink ODBC Driver for DB2 (Express Edition) for Mac OS X
    - Installation Guide
    - Configuration
- OpenLink ODBC Driver for DB2 (Express Edition) for Windows
    - Installation
    - Configuration

4.1 OpenLink ODBC Driver for DB2 (Express Edition) for Mac OS X

4.1.1 Installation Guide

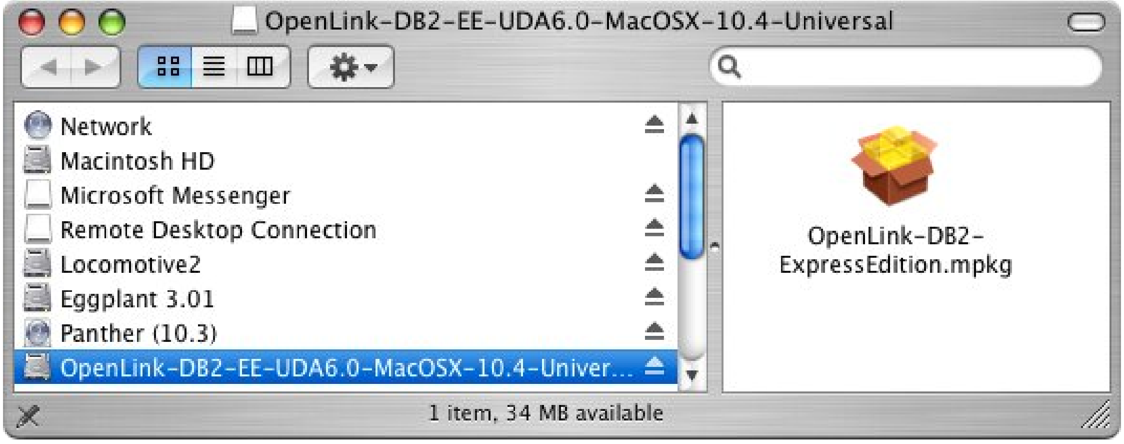
The OpenLink ODBC Driver for DB2 (Express Edition) is distributed as a Disk image (DMG) file. Simply double click on the disk image 'mul6edb2.dmg' to extract the installer mpkg file:

Figure 3.1. InstallerA_DB2.png



Double click on the mpkg file to run the installer and following the on screen instruction as indicated below to complete the installation:

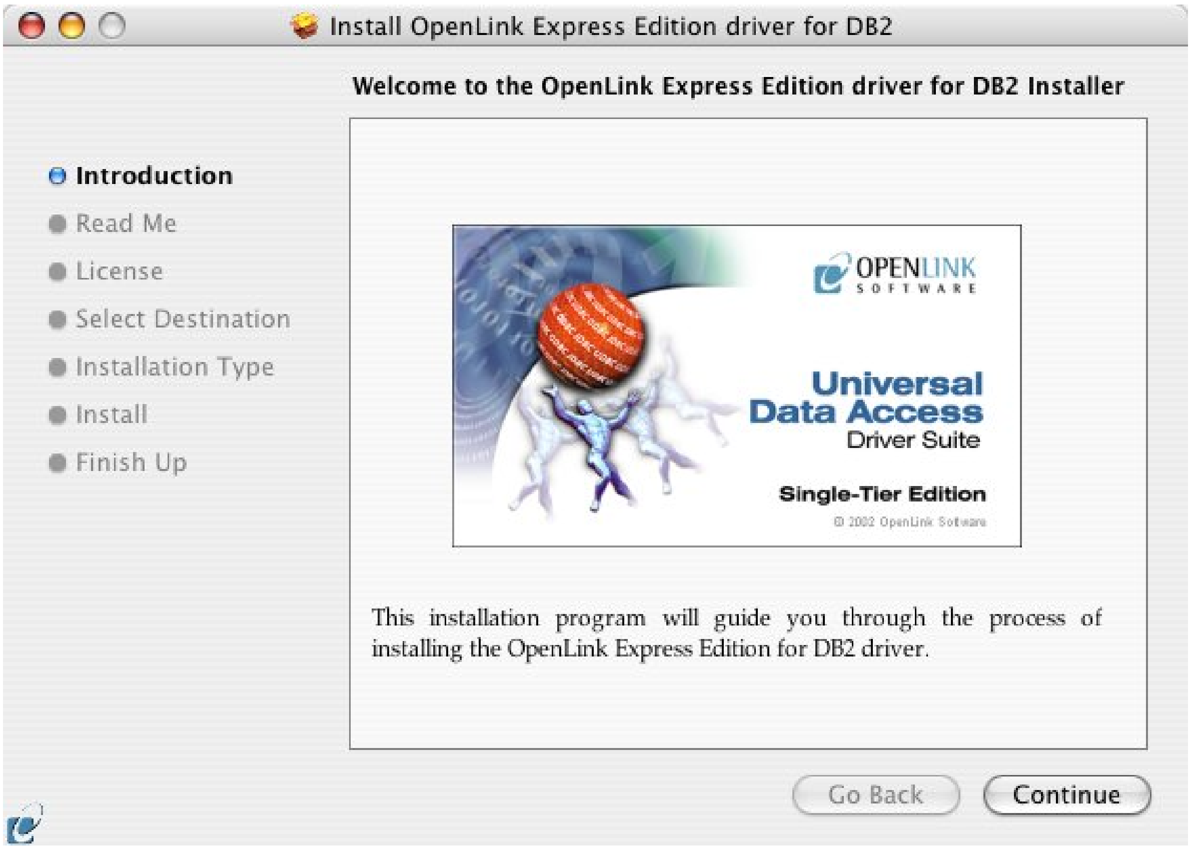
Figure 3.2. InstallerB_DB2.png



OpenLink-DB2-EE-UDA6.0-MacOSX-10.4-Universal
Network
Macintosh HD
Microsoft Messenger
Remote Desktop Connection
Locomotive2
Eggplant 3.01
Panther (10.3)
OpenLink-DB2-EE-UDA6.0-MacOSX-10.4-Univer...
OpenLink-DB2-ExpressEdition.mpkg
1 item, 34 MB available

Installer Welcome Dialog for the OpenLink ODBC Driver for DB2 (Express Edition):

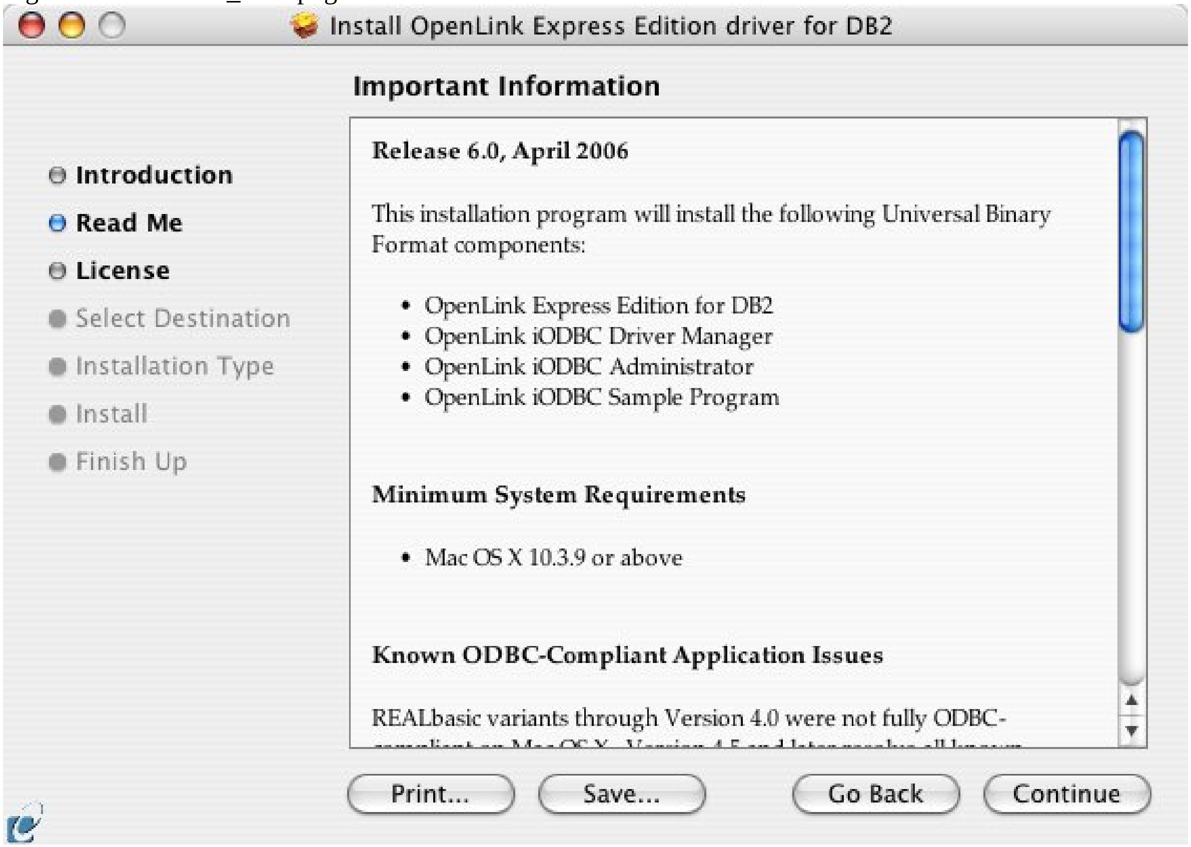
Figure 3.3. Installer1_DB2.png



This installation program will guide you through the process of installing the OpenLink Express Edition for DB2 driver.

Please review the readme file for installation requirements and known issues:

Figure 3.4. Installer2_DB2.png



Release 6.0, April 2006

This installation program will install the following Universal Binary Format components:

- OpenLink Express Edition for DB2
- OpenLink iODBC Driver Manager
- OpenLink iODBC Administrator
- OpenLink iODBC Sample Program

Minimum System Requirements

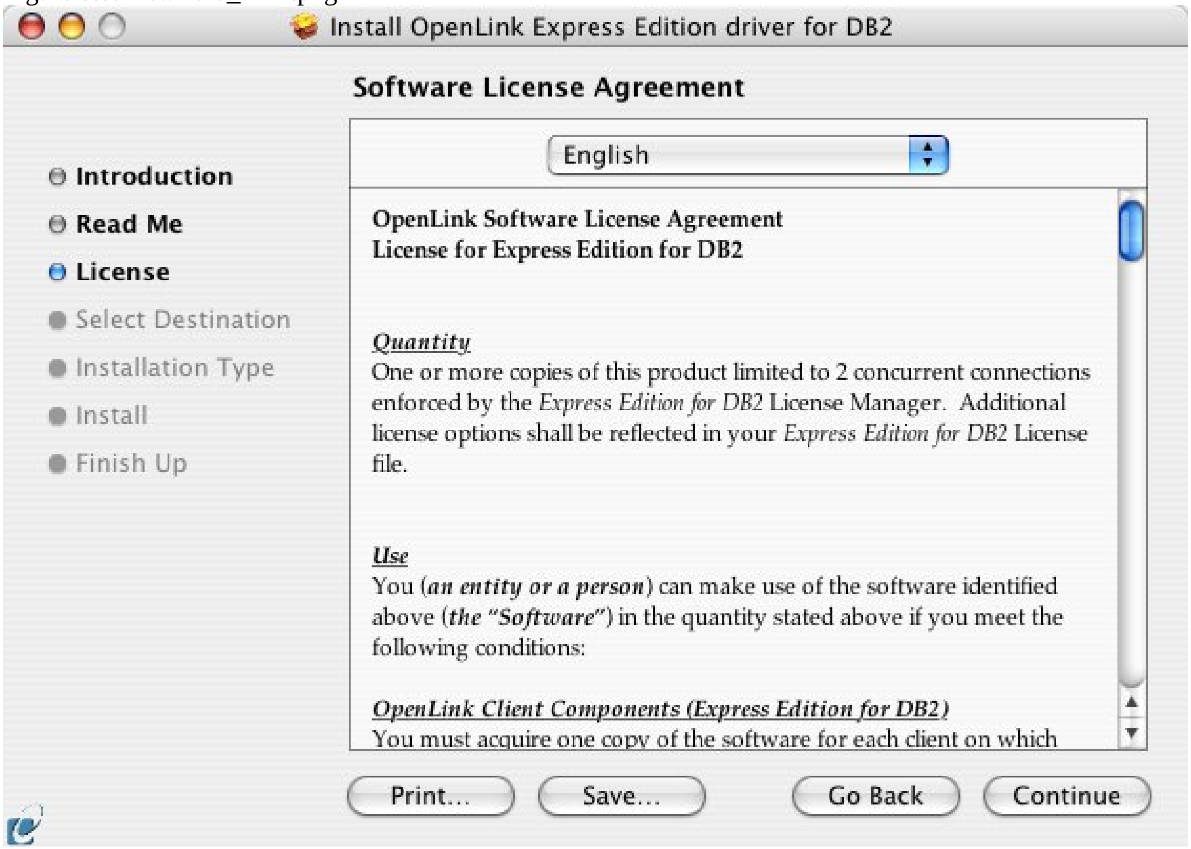
- Mac OS X 10.3.9 or above

Known ODBC-Compliant Application Issues

REALbasic variants through Version 4.0 were not fully ODBC-

Please read the software license agreement before continuing your installation:

Figure 3.5. Installer3_DB2.png



Install OpenLink Express Edition driver for DB2

Software License Agreement

OpenLink Software License Agreement
License for Express Edition for DB2

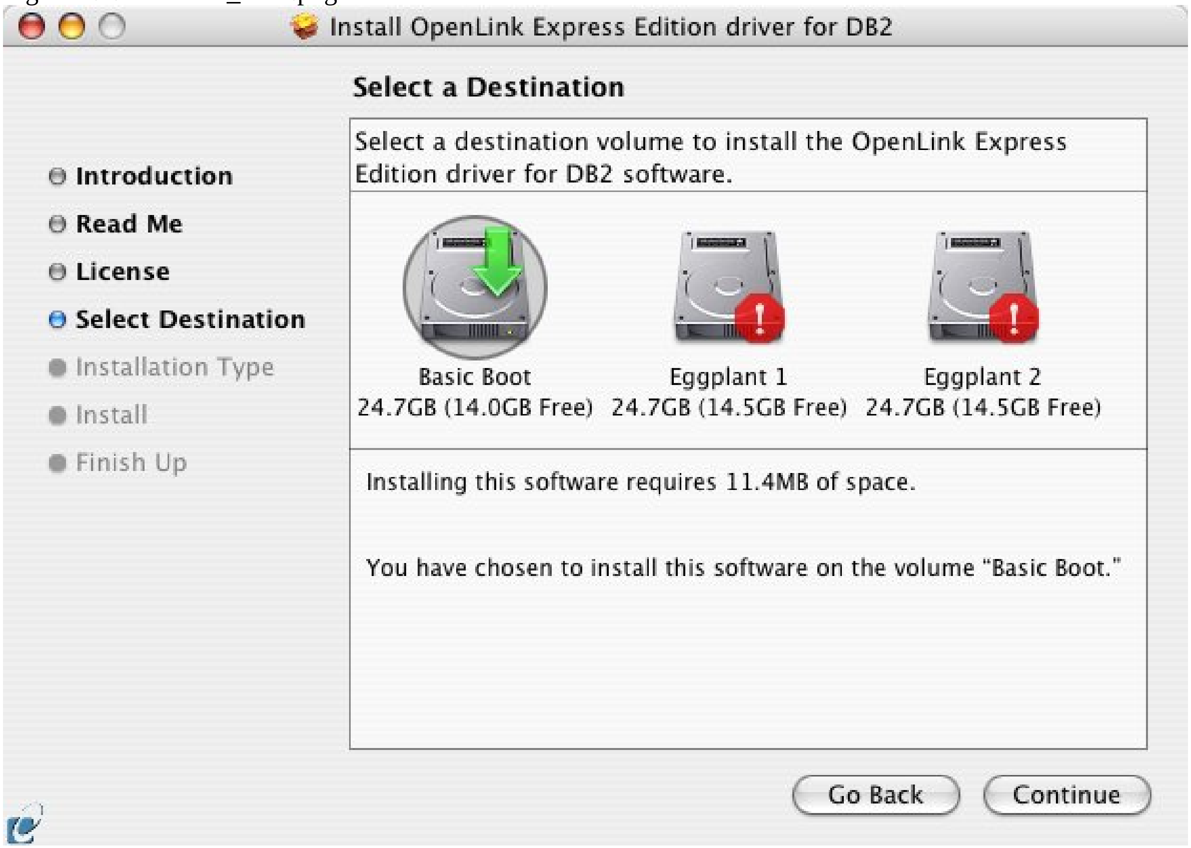
Quantity
One or more copies of this product limited to 2 concurrent connections enforced by the *Express Edition for DB2* License Manager. Additional license options shall be reflected in your *Express Edition for DB2* License file.

Use
You (***an entity or a person***) can make use of the software identified above (***the "Software"***) in the quantity stated above if you meet the following conditions:

OpenLink Client Components (Express Edition for DB2)
You must acquire one copy of the software for each client on which

Select destination volume for driver installation:

Figure 3.6. Installer5_DB2.png



Install OpenLink Express Edition driver for DB2

Select a Destination

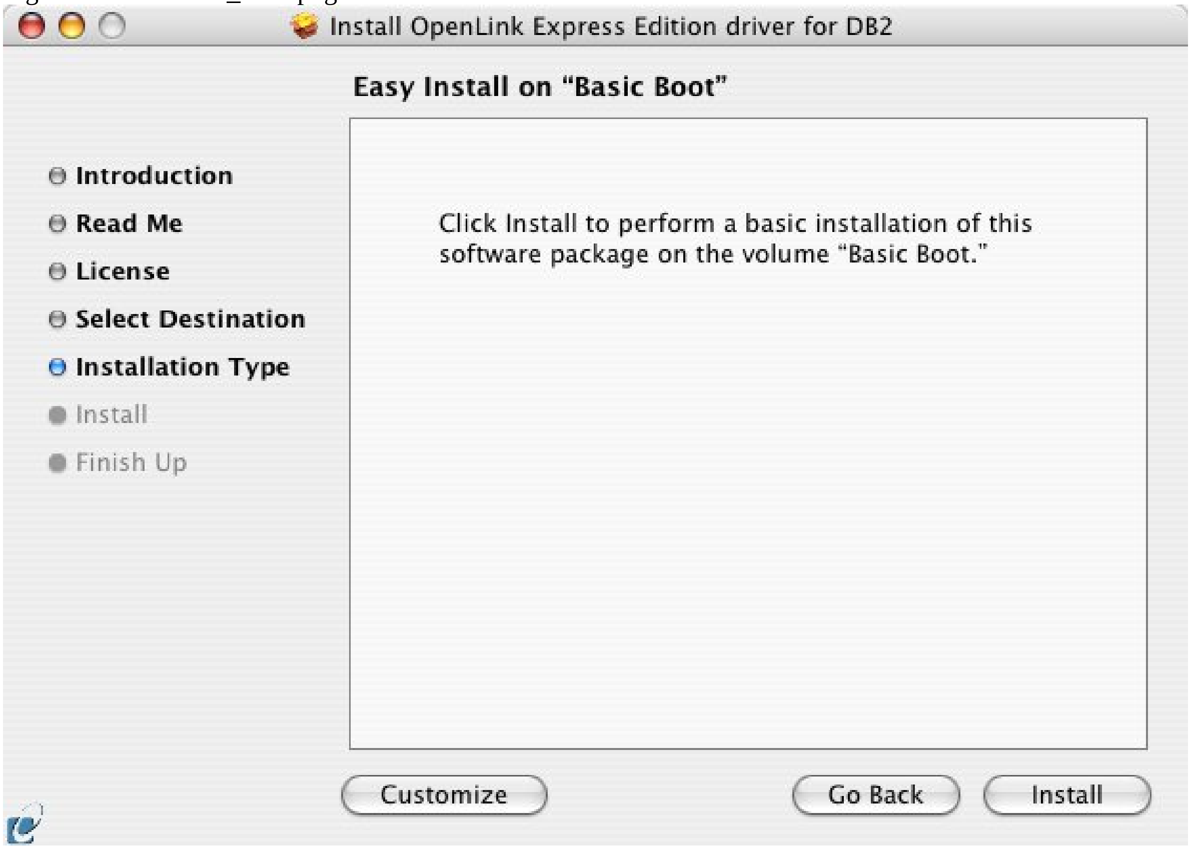
Select a destination volume to install the OpenLink Express Edition driver for DB2 software.

Installing this software requires 11.4MB of space.

You have chosen to install this software on the volume "Basic Boot."

Choose to perform a custom or default installation of the driver:

Figure 3.7. Installer6_DB2.png

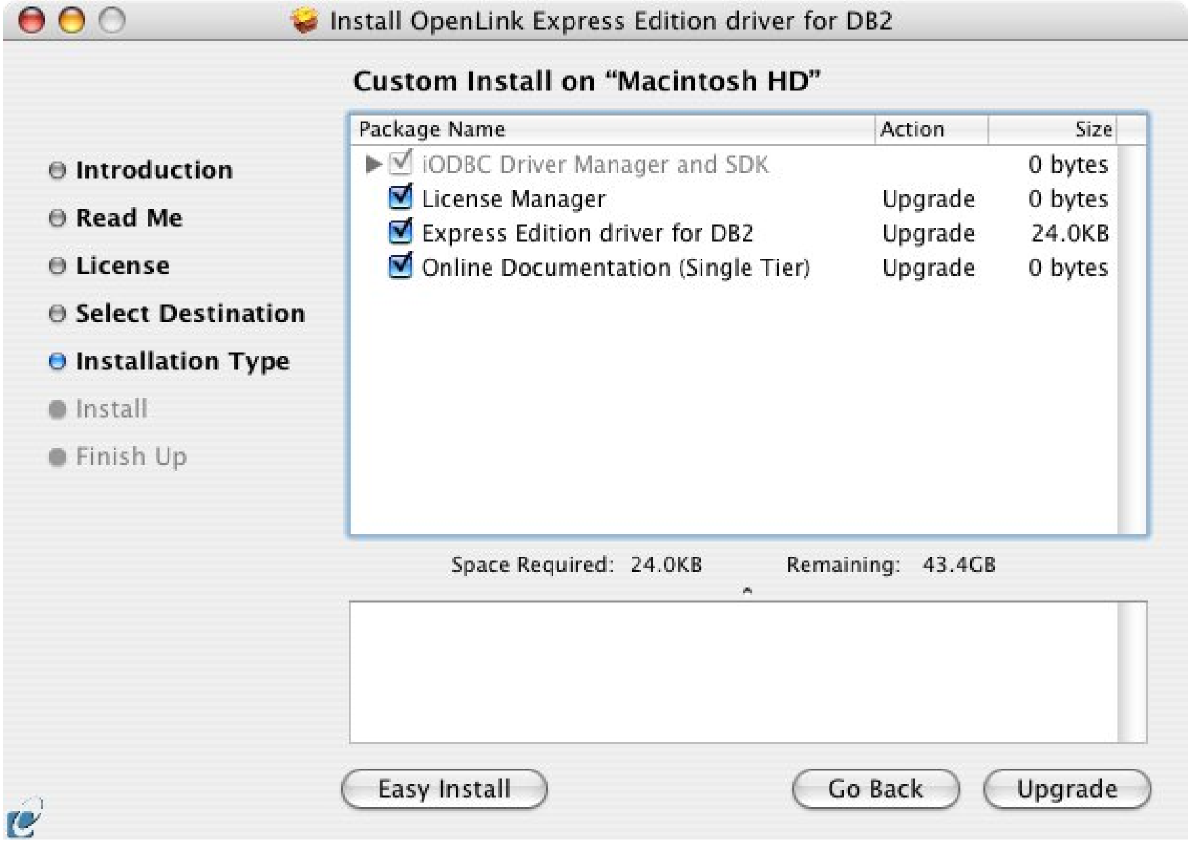


Easy Install on "Basic Boot"

Click Install to perform a basic installation of this software package on the volume "Basic Boot."

If you chose the custom option select which of the components below are to be installed:

Figure 3.8. InstallerC_DB2.png



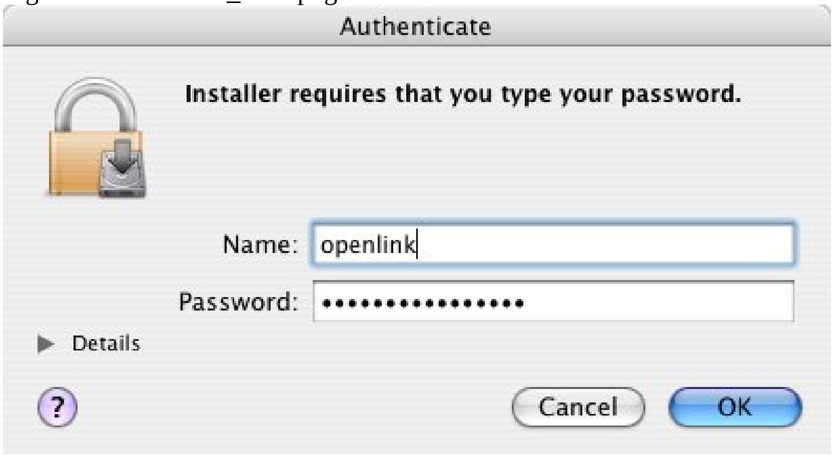
Custom Install on "Macintosh HD"

Package Name	Action	Size
▶ ☑ iODBC Driver Manager and SDK		0 bytes
☑ License Manager	Upgrade	0 bytes
☑ Express Edition driver for DB2	Upgrade	24.0KB
☑ Online Documentation (Single Tier)	Upgrade	0 bytes

Space Required: 24.0KB Remaining: 43.4GB

The software must be installed as a user with administrative privileges on the machine:

Figure 3.9. Installer7_DB2.png



Authenticate

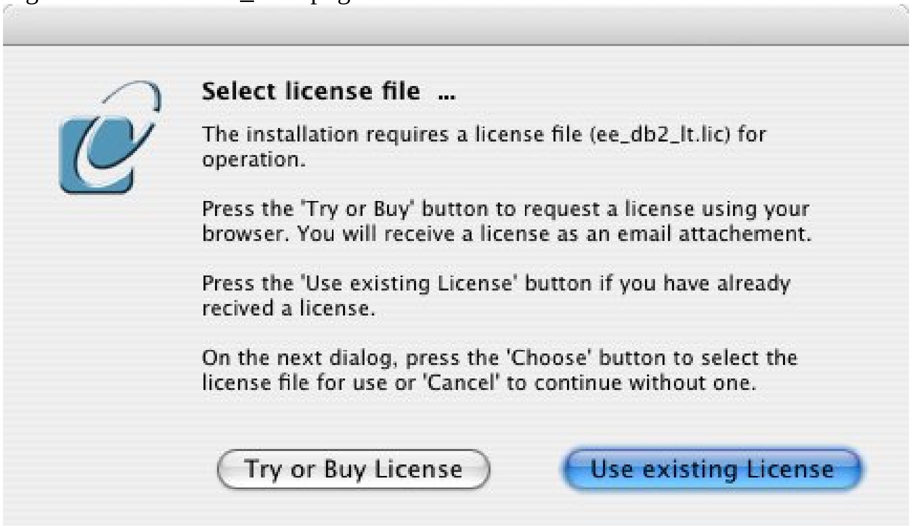
Installer requires that you type your password.

Name: openlink

Password: ●●●●●●●●●●●●●●●●

After the driver has been installed you will be prompted for a license file. If a license file already exists on the machine then select the 'use exisiting file' option. A trial (try) or full (buy) license can be obtain by selecting the 'try and buy' option which loads our online try and buy web page:

Figure 3.10. Installer8_DB2.png



Select license file ...

The installation requires a license file (ee_db2_lt.lic) for operation.

Press the 'Try or Buy' button to request a license using your browser. You will receive a license as an email attachement.

Press the 'Use existing License' button if you have already recived a license.

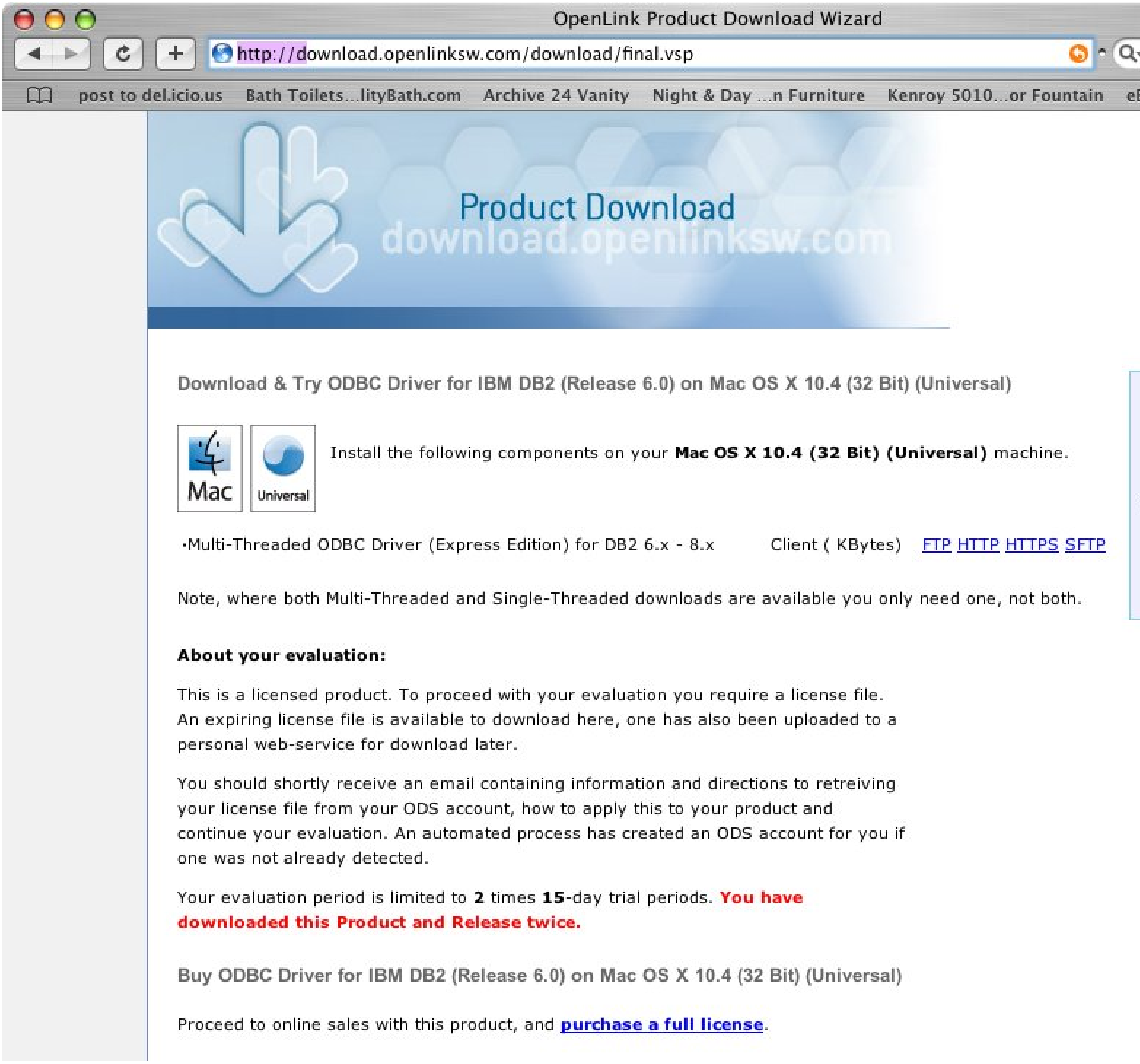
On the next dialog, press the 'Choose' button to select the license file for use or 'Cancel' to continue without one.

To obtain the trial license you must be a registered user on the OpenLink Web site and login with the username (e-mail address) and password for that user. Click on the 'Shop' link to visit our online shop cart to purchases a full license if required:

Figure 3.11. InstallerD_DB2.png

Click on the 'download license' button to obtain the license file immediately and save to your desktop. Alternatively an auto e-mail will be sent to the registered users e-mail address with a link to their OpenLink Data Space (ODS) where all trial and full license files will be stored in the Briefcase for download at a later date.

Figure 3.12. InstallerE_DB2.png



OpenLink Product Download Wizard
http://download.openlinksw.com/download/final.vsp
post to del.icio.us
Bath Toilets...lityBath.com
Archive 24 Vanity
Night & Day ...n Furniture
Kenroy 5010...or Fountain
Product Download
download.openlinksw.com
Mac
Universal

Download & Try ODBC Driver for IBM DB2 (Release 6.0) on Mac OS X 10.4 (32 Bit) (Universal)

Install the following components on your **Mac OS X 10.4 (32 Bit) (Universal)** machine.

•Multi-Threaded ODBC Driver (Express Edition) for DB2 6.x - 8.x Client (KBytes) FTP HTTP HTTPS SFTP

Note, where both Multi-Threaded and Single-Threaded downloads are available you only need one, not both.

About your evaluation:

This is a licensed product. To proceed with your evaluation you require a license file. An expiring license file is available to download here, one has also been uploaded to a personal web-service for download later.

You should shortly receive an email containing information and directions to retreiving your license file from your ODS account, how to apply this to your product and continue your evaluation. An automated process has created an ODS account for you if one was not already detected.

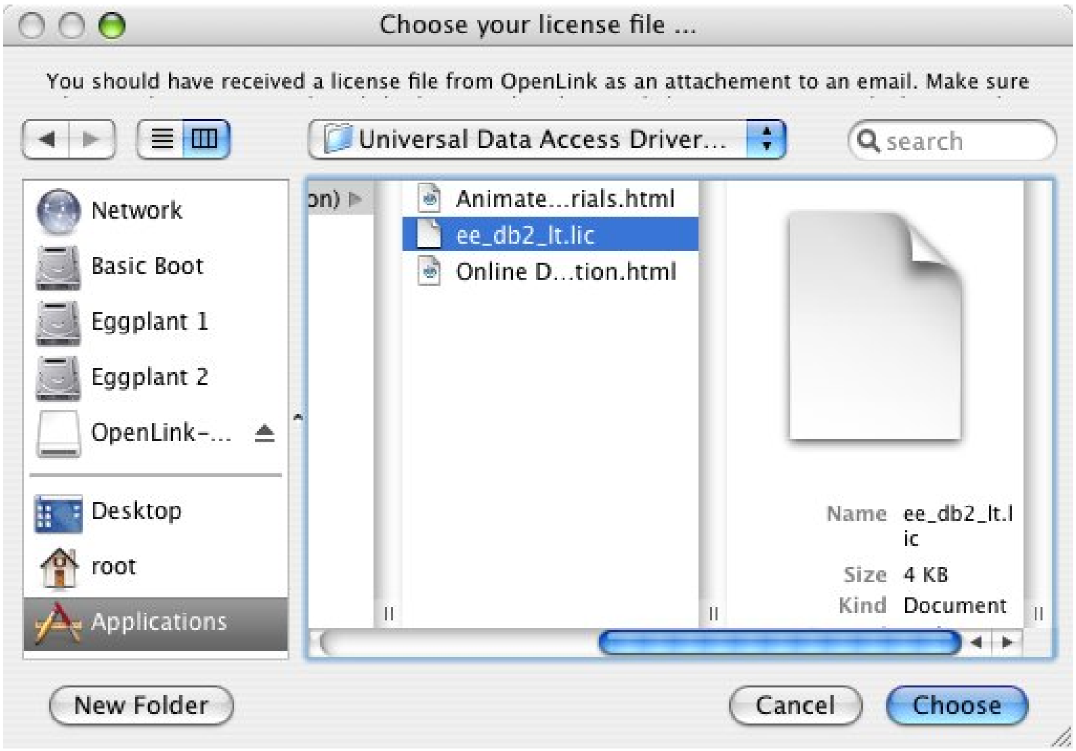
Your evaluation period is limited to **2** times **15**-day trial periods. **You have downloaded this Product and Release twice.**

Buy ODBC Driver for IBM DB2 (Release 6.0) on Mac OS X 10.4 (32 Bit) (Universal)

Proceed to online sales with this product, and **purchase a full license**.

Select the license file to be used for the installation:

Figure 3.13. Installer10_DB2.png



Choose your license file ...

You should have received a license file from OpenLink as an attachement to an email. Make sure

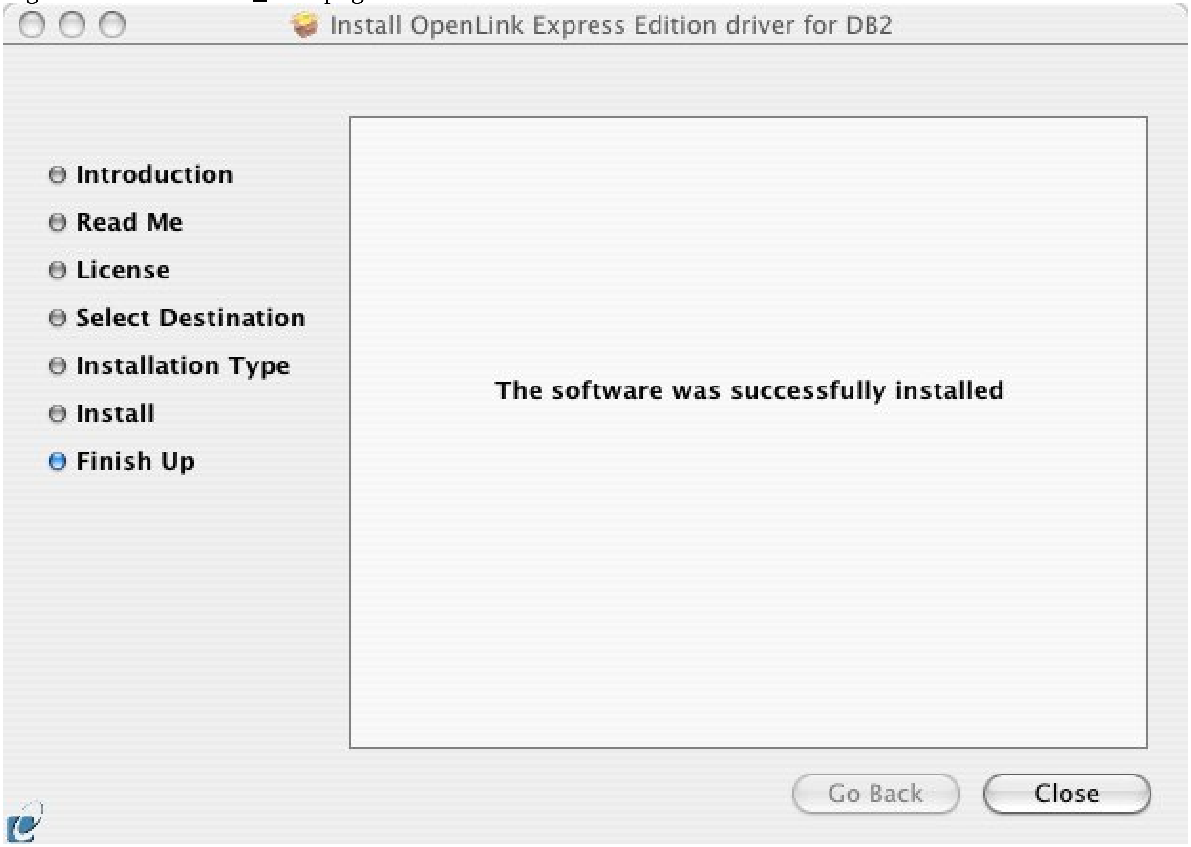
Name ee_db2_lt.lic

Size 4 KB

Kind Document

Installation is complete:

Figure 3.14. Installer11_DB2.png



Install OpenLink Express Edition driver for DB2

The software was successfully installed

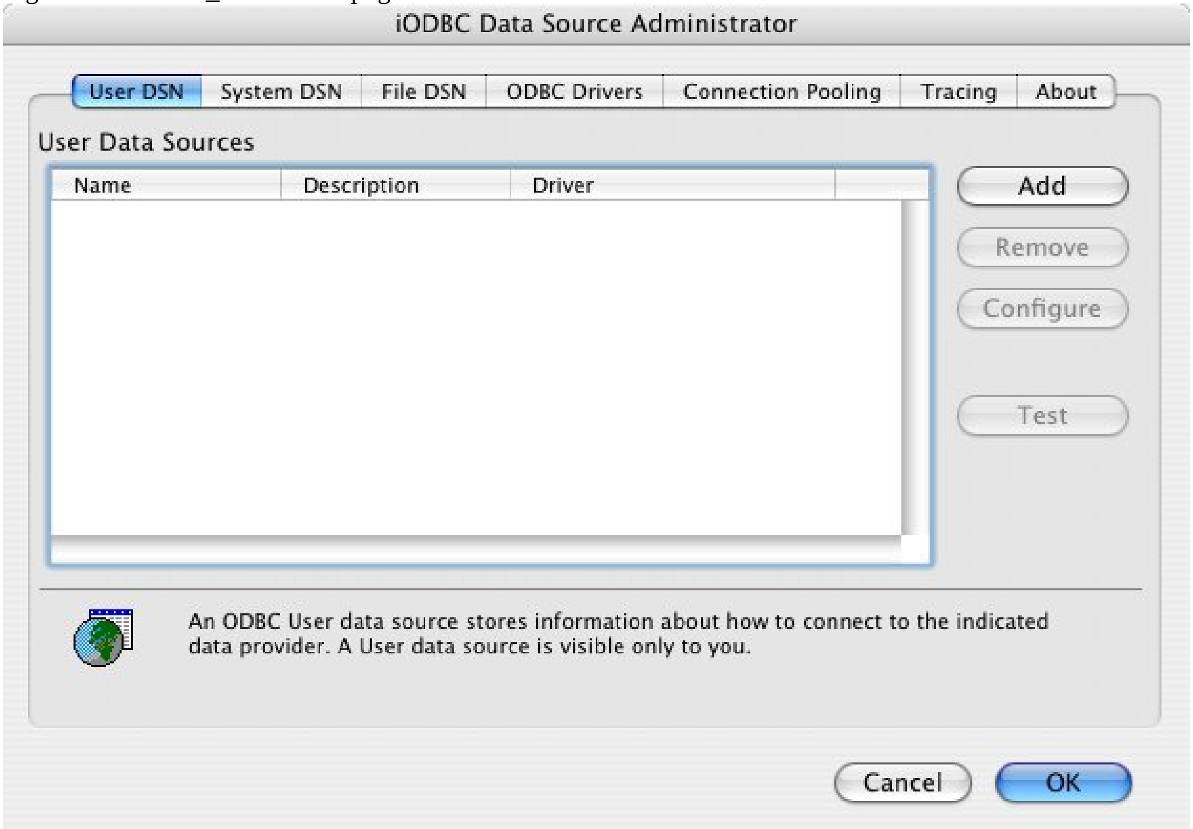
4.1.2 Configuration

To configure an ODBC DSN, run the OpenLink iODBC Administrator located in the /Applications/iODBC folder:

Figure 3.15. DSN0_AdminStart.png

Click on the add button to Choose the ODBC Driver the DSN should be created for:

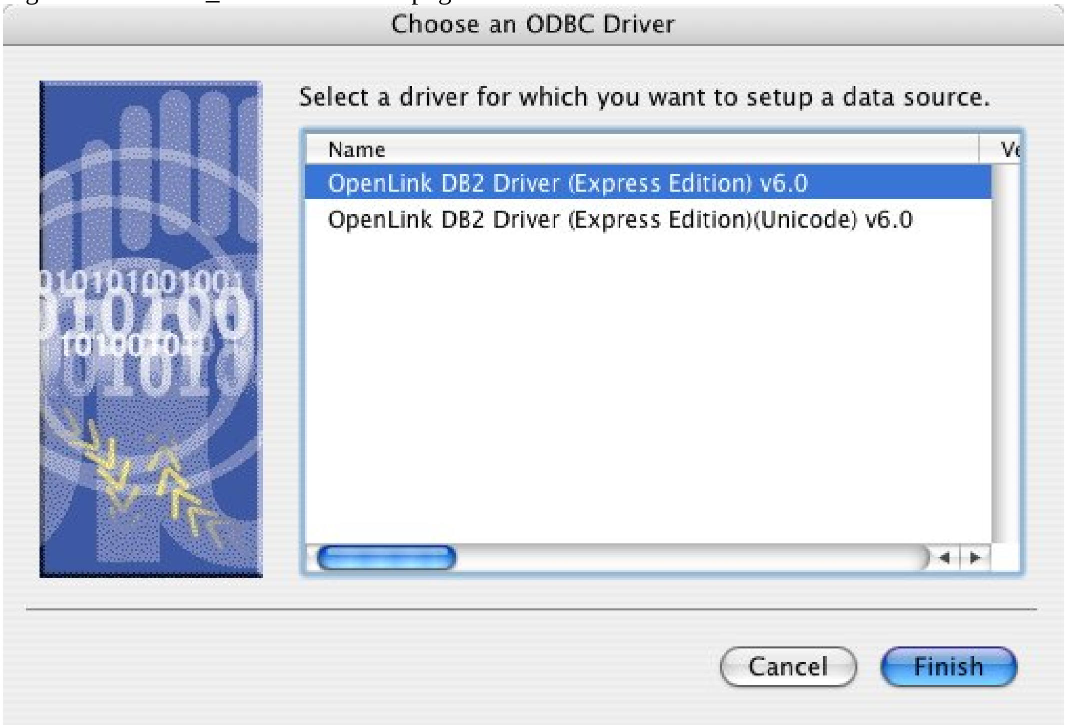
Figure 3.16. DSN1_AdminStart.png



An ODBC User data source stores information about how to connect to the indicated data provider. A User data source is visible only to you.

Choose the OpenLink DB2 Driver (Express Edition) v6.0 from the list of available drivers:

Figure 3.17. DSN3_SelectDB2Driver.png



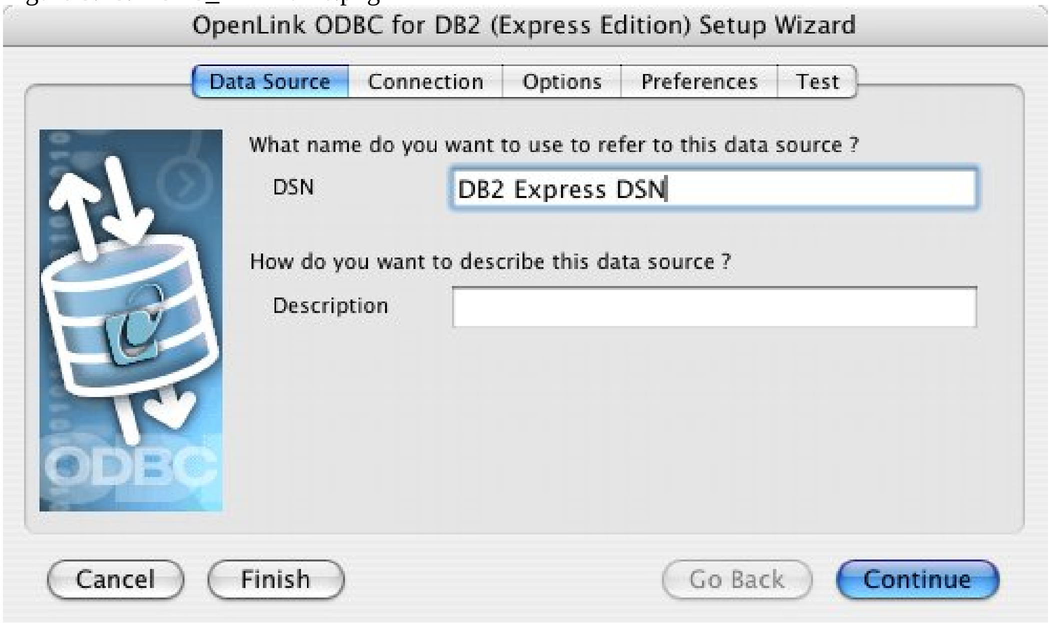
Select a driver for which you want to setup a data source.

OpenLink DB2 Driver (Express Edition) v6.0

OpenLink DB2 Driver (Express Edition)(Unicode) v6.0

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 3.18. DSN5_DB2Name.png



OpenLink ODBC for DB2 (Express Edition) Setup Wizard

What name do you want to use to refer to this data source ?

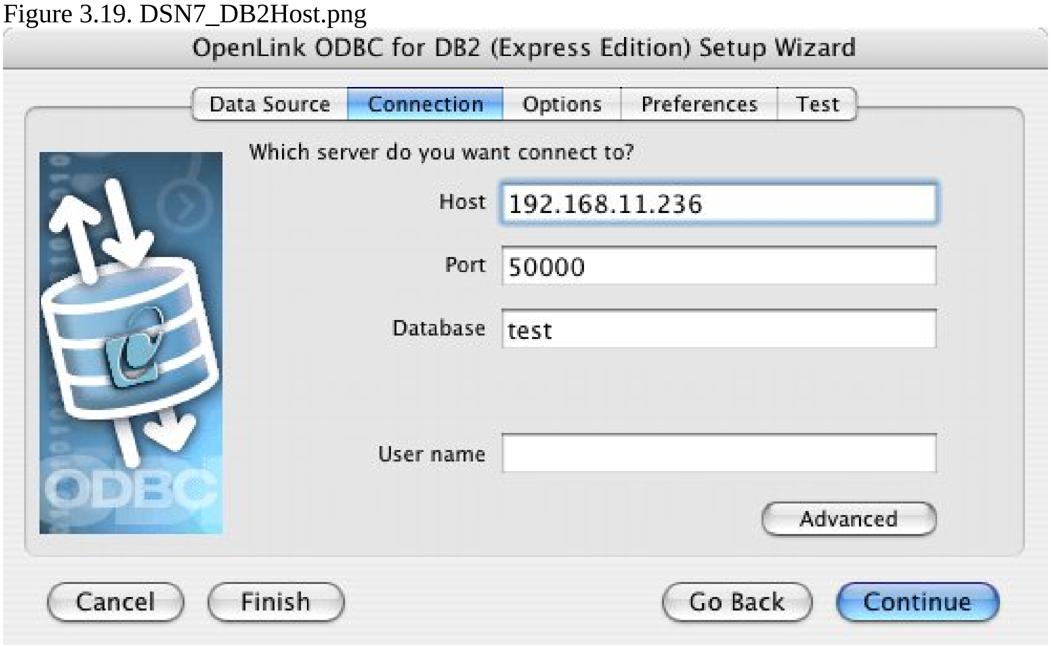
DSN: DB2 Express DSN

How do you want to describe this data source ?

Description:

The Connection Tab request the minimum paramters required to make a connection to the target database:

Figure 3.19. DSN7_DB2Host.png



OpenLink ODBC for DB2 (Express Edition) Setup Wizard

Which server do you want connect to?

Host: 192.168.11.236

Port: 50000

Database: test

User name:

- Host - the hostname of the server on which the DB2 database is running
- Port - the TCP port on which DB2 listens
- Database - a valid DB2 database alias
- Username - the username of a valid DB2 user
- Advanced - Additional optional configuration paramters:

Table 3.1.

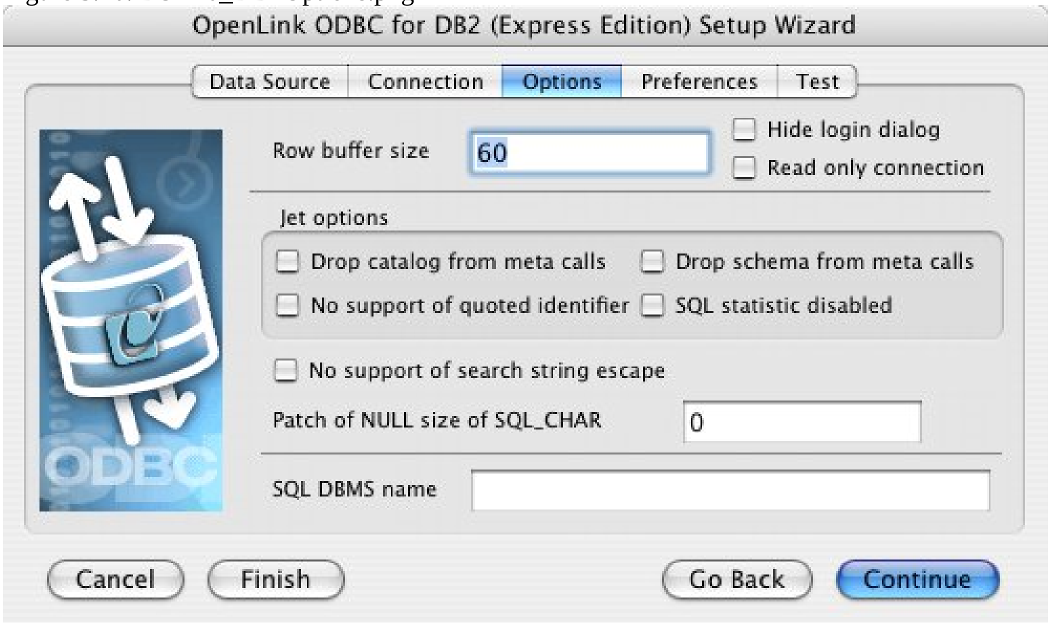
FullyMaterializeLobData	Indicates whether the driver retrieves LOB locators for FETCH operations. The data type of this property is boolean. If the value is true, LOB data is fully materialized within the JDBC driver when a row is fetched. If this value is false, LOB data is streamed. The driver uses locators internally to retrieve LOB data in chunks on an as-needed basis It is highly recommended that you set this value to false when you retrieve LOBs that contain large amounts of data. The default is true.
ResultSetHoldability	

	Specifies whether cursors remain open after a commit operation. Valid values are 1 - HOLD_CURSORS_OVER_COMMIT or 2 - CLOSE_CURSORS_AT_COMMIT.
CliSchema	Specifies the schema of the DB/2 shadow catalog tables or views that are searched when an application invokes a DatabaseMetaData method.
CurrentSchema	Specifies the default schema name that is used to qualify unqualified database objects in dynamically prepared SQL statements. This value of this property sets the value in the CURRENT SCHEMA special register on a server other than a DB2 UDB for z/OS server. Do not set this property for a DB2 UDB for z/OS server.
CurrentSQLID	Specifies: The authorization ID that is used for authorization checking on dynamically prepared CREATE, GRANT, and REVOKE SQL statements. The owner of a table space, database, storage group, or synonym that is created by a dynamically issued CREATE statement. The implicit qualifier of all table, view, alias, and index names specified in dynamic SQL statements.
CurrentFunctionPath	Specifies the SQL path that is used to resolve unqualified data type names and function names in SQL statements that are in JDBC programs. The data type of this property is String. For a DB2 UDB for Linux, UNIX and Windows server, the maximum length is 254 bytes. The value is a comma-separated list of schema names. Those names can be ordinary or delimited identifiers.
CurrentLockTimeout	Directs DB2 UDB for Linux, UNIX and Windows servers to wait indefinitely for a lock or to wait for the specified number of seconds for a lock when the lock cannot be obtained immediately. The data type of this property is int. A value of zero means no wait. A value of -1 means to wait indefinitely. A positive integer indicates the number of seconds to wait for a lock.
JdbcCollection	Specifies the collection ID for the packages that are used by an instance of the DB2 Universal JDBC Driver at run time. The data type of jdbcCollection is String. The default is NULLID.
CurrentPackageSet	Specifies the collection ID to search for DB2 packages for the DB2 Universal JDBC Driver. The data type of this property is String. The default is NULLID. If currentPackageSet is set, its value overrides the value of jdbcCollection.
CurrentPackagePath	Specifies a comma-separated list of collections on the server. The DB2 server searches these collections for the DB2 packages for the DB2 Universal JDBC Driver. The precedence rules for the currentPackagePath and currentPackageSet properties follow the precedence rules for the DB2 CURRENT PACKAGESET and CURRENT PACKAGE PATH special registers.
SecurityMechanism	Specifies the DRDA security mechanism. Possible values are: 3 - User ID and password, 4 - User ID only, 7 - User ID, encrypted password,9 - Encrypted user ID and password, 11 - Kerberos. If this property is specified, the specified security mechanism is the only mechanism that is used. If the security mechanism is not supported by the connection, an exception is thrown.
KerberosServerPrincipal	For a data source that uses Kerberos security, specifies the name that is used for the data source when it is registered with the Kerberos Key Distribution Center (KDC).
DeferPrepares	Specifies whether to defer prepare operations until run time. The data type of this property is boolean.
ClientUser	Specifies the current client user name for the connection. This information is for client accounting purposes. Unlike the connection user name, this value can change during a connection. For a DB2 UDB for Linux, UNIX and Windows server, the maximum length is 255 bytes.
ClientWorkstation	Specifies the workstation name for the current client for the connection. This information is for client accounting purposes. This value can change during a connection. The data type of this property is String. For a DB2 UDB for Linux, UNIX and Windows server, the maximum length is 255 bytes.
ClientApplicationInformation	Specifies application information for the current client for the connection. This information is for client accounting purposes. This value can change during a connection. The data type of this property is String. For a DB2 UDB for Linux, UNIX and Windows server, the maximum length is 255 bytes.
ClientAccountingInformation	Specifies accounting information for the current client for the connection. This information is for client accounting purposes. This value can change during a

connection. The data type of this property is String. For a DB2 UDB for Linux, UNIX and Windows server, the maximum length is 255 bytes.

As indiacted above the paramters of the options and preferences tabs are not required for a basic connection:

Figure 3.20. DSN10_DB2Options.png



Row buffer size: 60

□ Hide login dialog

□ Read only connection

□ Drop catalog from meta calls

□ Drop schema from meta calls

□ No support of quoted identifier

□ SQL statistic disabled

□ No support of search string escape

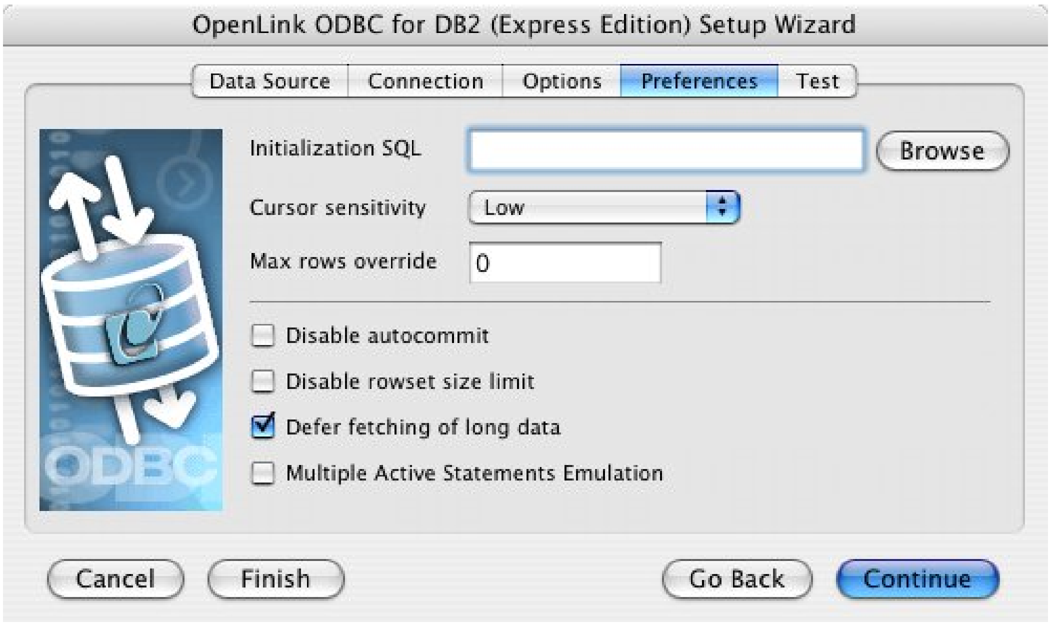
Patch of NULL size of SQL_CHAR: 0

SQL DBMS name:

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.
- *Hide Login Dialog* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.
- *Read Only connection* - Specify whether the connection is to be "Read-only". Make sure the checkbox is unchecked to request a "Read/Write" connection.
- *Drop Catalog from Meta calls* - Enable this option to have the catalog name not appear for tables, views and procedures when requesting database meta-data.
- *Drop Schema from Meta calls* - Enable this option to have the schema-name not appear for tables, views and procedures when requesting database meta-data.
- *SQLStatistics disabled* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table (e.g. what indexes there are on it).
- *No support of quoted identifier* - If it is set, the call SQLGetInfo /bin/edit/Main/SQLGetInfo?topicparent=Main.UdaEeInstallConfigDB2 for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if DBMS doesn't support quoted SQL like select * from "account"
- *No support of search string escape* - If it is set, the call SQLGetInfo

  for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if DBMS doesn't support SQL escape patterns
- *Patch of NULL size of SQL_CHAR* - If set this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0 the driver uses the size returned by the database.
- *SQL_DBMS Name* - Manually override the SQLGetInfo (SQL_DBMS_NAME) response returned by the driver. This is know to be required for products like Microsoft InfoPath for which the return the value should be "SQL Server".

Figure 3.21. DSN11_DB2Preferences.png



OpenLink ODBC for DB2 (Express Edition) Setup Wizard

Initialization SQL

Cursor sensitivity: Low

Max rows override: 0

□ Disable autocommit

□ Disable rowset size limit

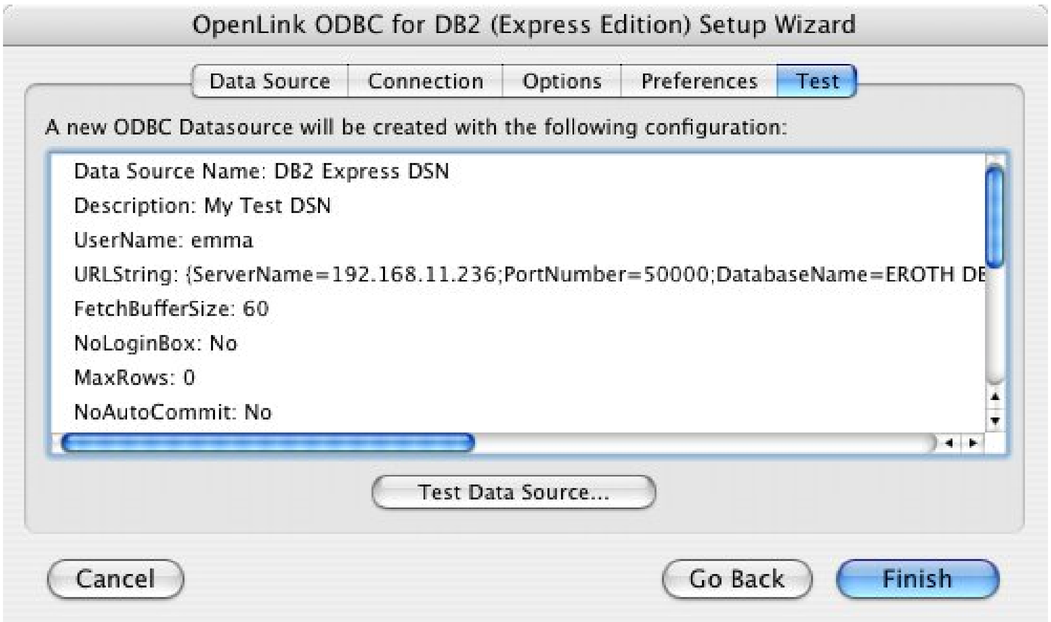
☑ Defer fetching of long data

□ Multiple Active Statements Emulation

- *Initialization SQL* - Lets you specify a file containing SQL statements that will be run against the database upon connection, automatically.
- *Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows don't appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate script for the target database.
- *MaxRows Override* - Allows you to define a limit on the maximum number of rows to returned from a query. The default value of 0 means no limit.
- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Lite Driver. The default mode is AutoCommit mode (box unchecked).
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset is generated from an erroneous query is very large. The limit is normally never reached.
- *Defer fetching of long data* - Defer fetching of LONG (BINARY, BLOB etc.) data unless explicitly requested in query. This provides significant performance increase when fields in query does not include LONG data fields.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Click on the 'Test Data Source' button to make a connection to the database to verify connectivity:

Figure 3.22. DSN12_DB2Test.png

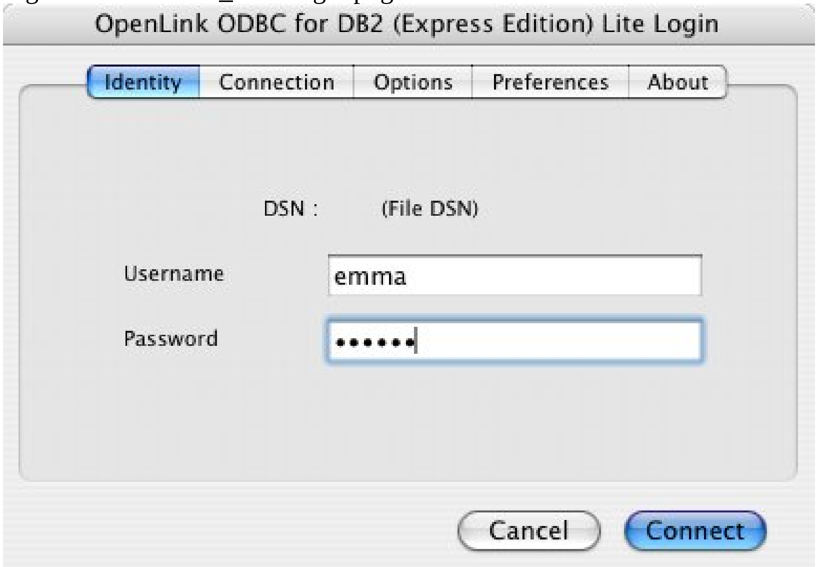


A new ODBC Datasource will be created with the following configuration:

```
Data Source Name: DB2 Express DSN
Description: My Test DSN
UserName: emma
URLString: {ServerName=192.168.11.236;PortNumber=50000;DatabaseName=EROTH DE
FetchBufferSize: 60
NoLoginBox: No
MaxRows: 0
NoAutoCommit: No
```

Enter a vaild username and pasword for the database:

Figure 3.23. DSN13_DB2Login.png



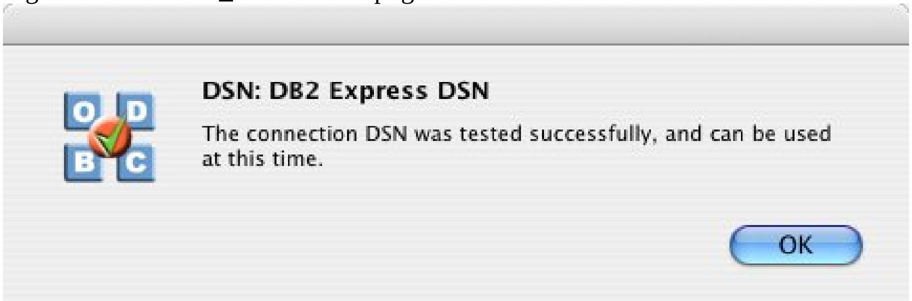
DSN : (File DSN)

Username: emma

Password: ••••••

A successful connection to the database has been made:

Figure 3.24. DSN14_DB2Success.png



DSN: DB2 Express DSN

The connection DSN was tested successfully, and can be used at this time.

4.2 OpenLink ODBC Driver for DB2 (Express Edition) for Windows

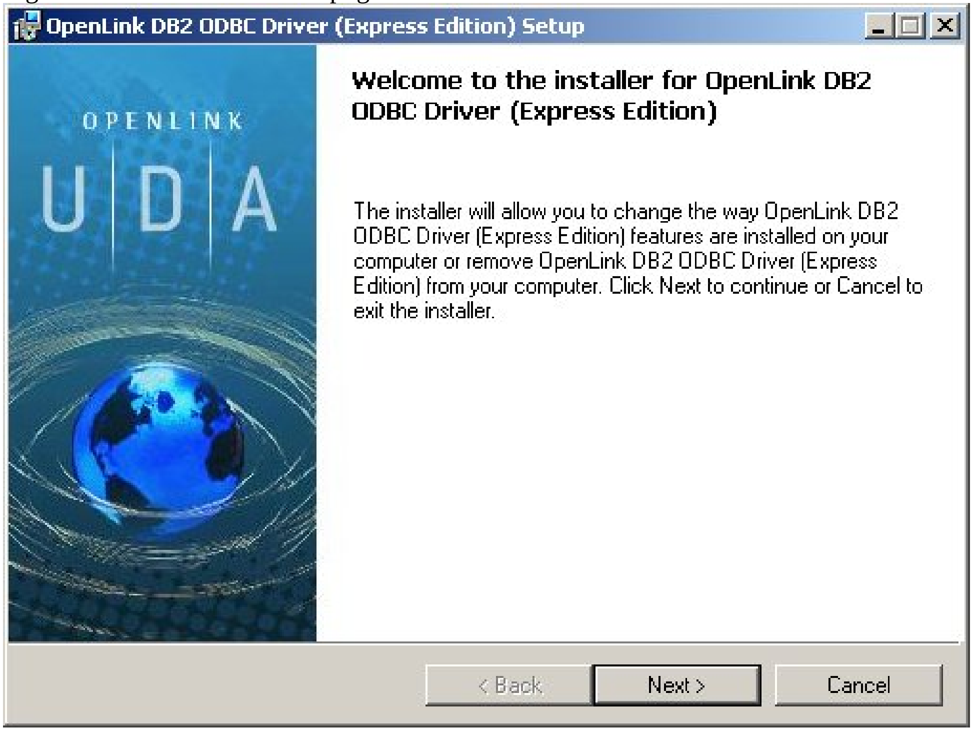
4.2.1 Installation

The OpenLink ODBCDriver for DB2 (Express Edition) is distributed as a Windows MSI installer. Simply double click the installer 'ntl6edb2.msi' to commence the installation:

Figure 3.25. EEWindb2inst00.png

Installer Welcome Dialog for the OpenLink ODBCDriver for DB2 (Express Edition):

Figure 3.26. EEWindb2inst01.png

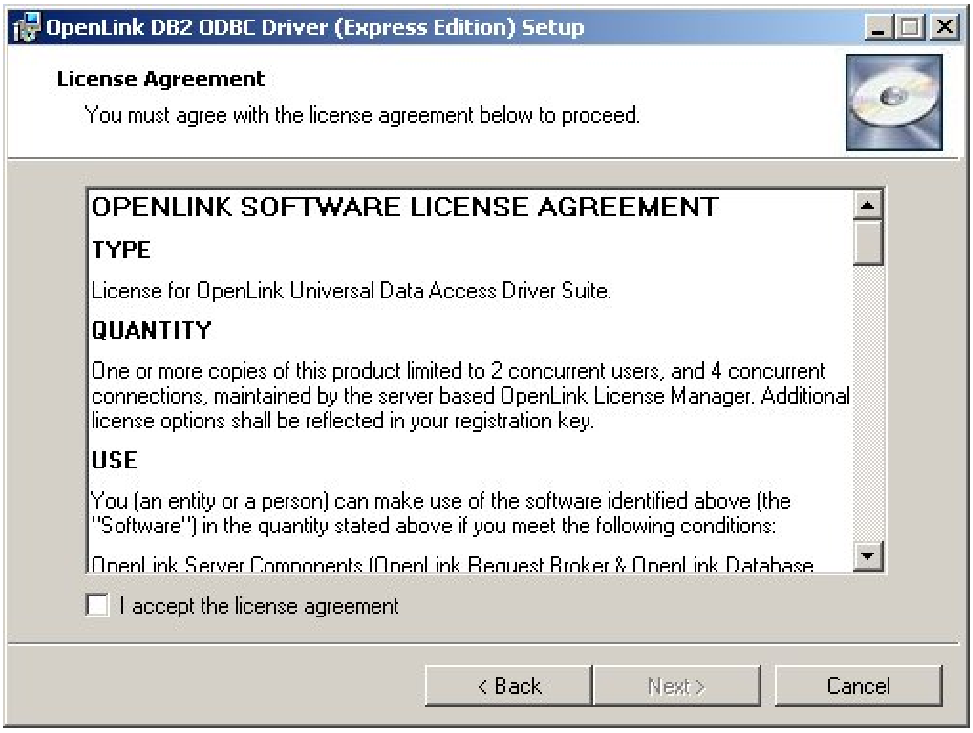


Welcome to the installer for OpenLink DB2 ODBC Driver (Express Edition)

The installer will allow you to change the way OpenLink DB2 ODBC Driver (Express Edition) features are installed on your computer or remove OpenLink DB2 ODBC Driver (Express Edition) from your computer. Click Next to continue or Cancel to exit the installer.

Please read the software license agreement and accept before continuing your installation:

Figure 3.27. EEWindb2inst02.png



OpenLink DB2 ODBC Driver (Express Edition) Setup

License Agreement

You must agree with the license agreement below to proceed.

OPENLINK SOFTWARE LICENSE AGREEMENT

TYPE

License for OpenLink Universal Data Access Driver Suite.

QUANTITY

One or more copies of this product limited to 2 concurrent users, and 4 concurrent connections, maintained by the server based OpenLink License Manager. Additional license options shall be reflected in your registration key.

USE

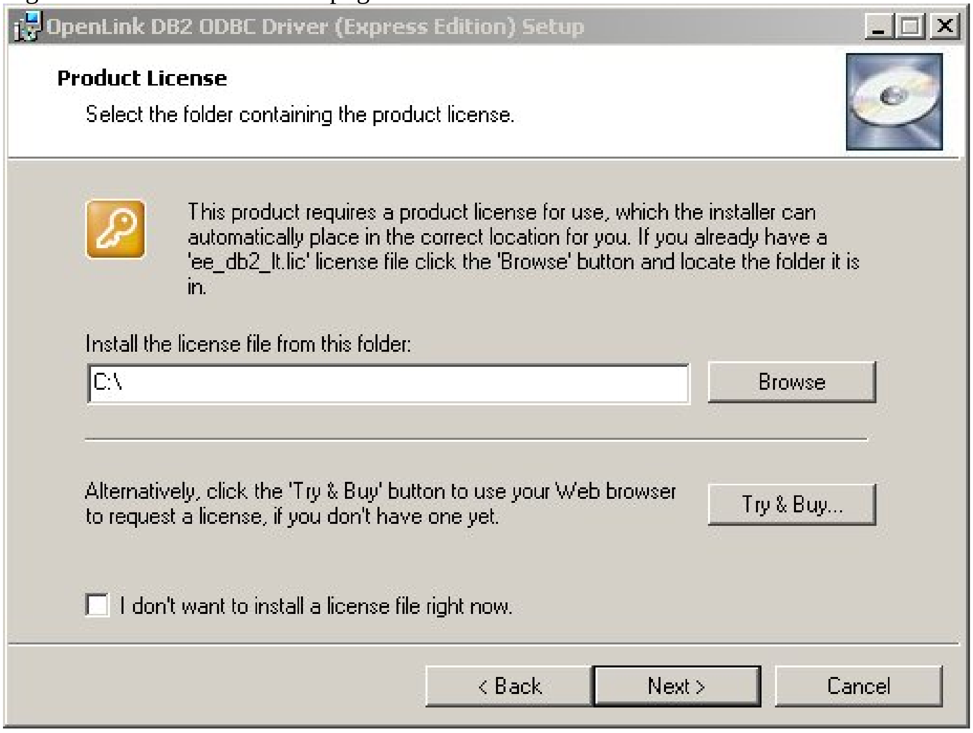
You (an entity or a person) can make use of the software identified above (the "Software") in the quantity stated above if you meet the following conditions:

OpenLink Server Components (OpenLink Request Broker & OpenLink Database

□ I accept the license agreement

Before installation, you will be prompted for a license file. If a license file already exists on the machine, then select the 'use exisiting file' option. A trial (try) or full (buy) license can be obtained by selecting the 'try and buy' option which loads OpenLink's online try and buy web page:

Figure 3.28. EEWindb2inst03.png



OpenLink DB2 ODBC Driver (Express Edition) Setup

Product License

Select the folder containing the product license.

This product requires a product license for use, which the installer can automatically place in the correct location for you. If you already have a 'ee_db2_lt.lic' license file click the 'Browse' button and locate the folder it is in.

Install the license file from this folder:

C:\

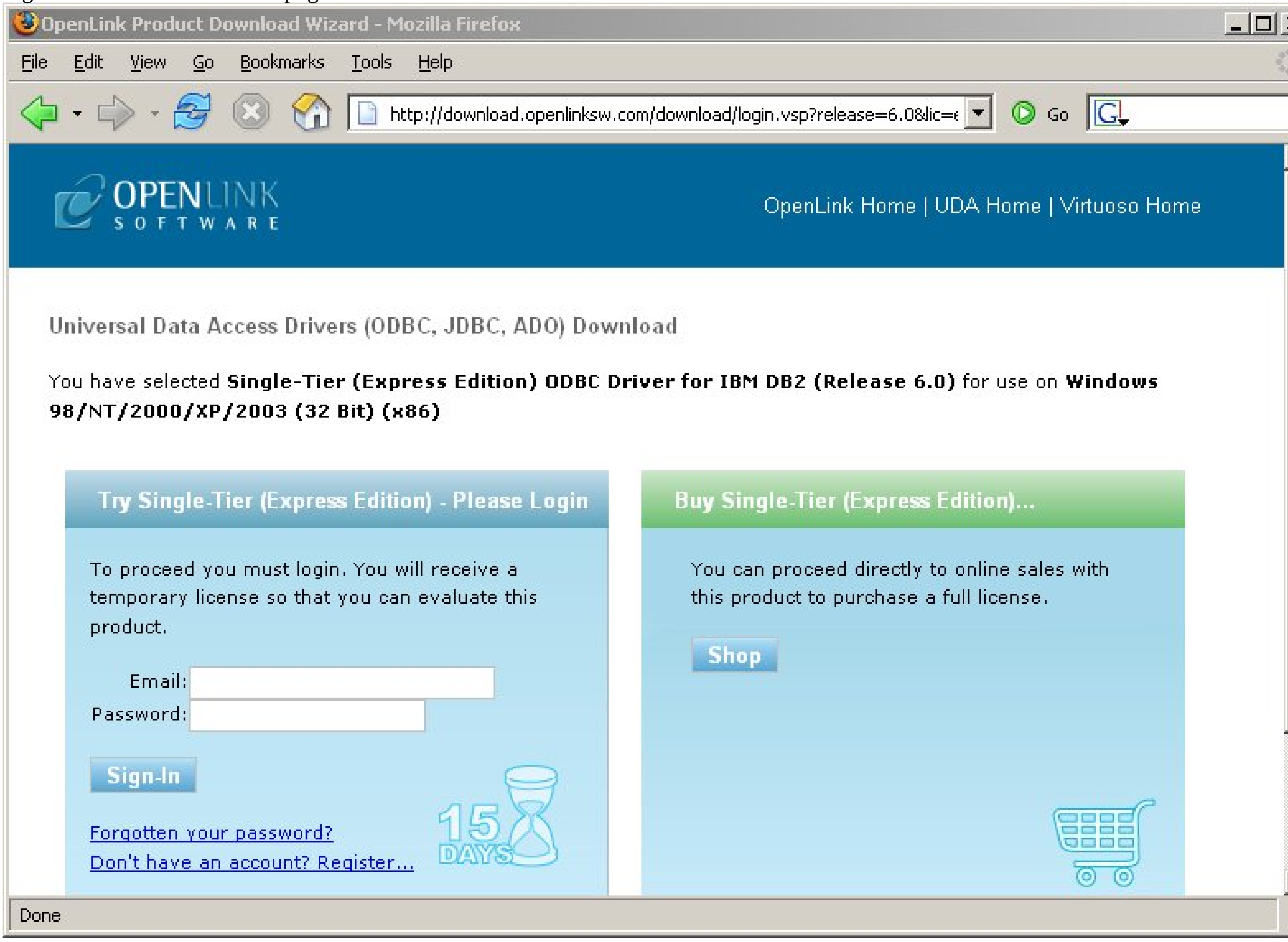
Alternatively, click the 'Try & Buy' button to use your Web browser to request a license, if you don't have one yet.

□ I don't want to install a license file right now.

To obtain the trial license, you must be a registered user on the OpenLinkWeb site and login with the username (e-mail address) and password for that user name. Click on the 'Shop' link to visit OpenLink's online shop cart to purchase a full license, if required.

Click on the 'download license' button to immediately obtain the license file and save it to your desktop. Alternatively, an auto-generated e-mail will be sent to your registered user e-mail address with a link to your OpenLinkData Space (ODS), which contains all trial and full licenses in the Briefcase for download at a later date.

Figure 3.29. EEWindb2inst04.png



OpenLink Product Download Wizard - Mozilla Firefox
File Edit View Go Bookmarks Tools Help
Go
OPENLINK SOFTWARE
OpenLink Home | UDA Home | Virtuoso Home
Sign-In
15 DAYS
Shop
Done

http://download.openlinksw.com/download/login.vsp?release=6.0&lic=

Universal Data Access Drivers (ODBC, JDBC, ADO) Download

You have selected **Single-Tier (Express Edition) ODBC Driver for IBM DB2 (Release 6.0)** for use on **Windows 98/NT/2000/XP/2003 (32 Bit) (x86)**

Try Single-Tier (Express Edition) - Please Login

To proceed you must login. You will receive a temporary license so that you can evaluate this product.

Email:

Password:

Forgotten your password?

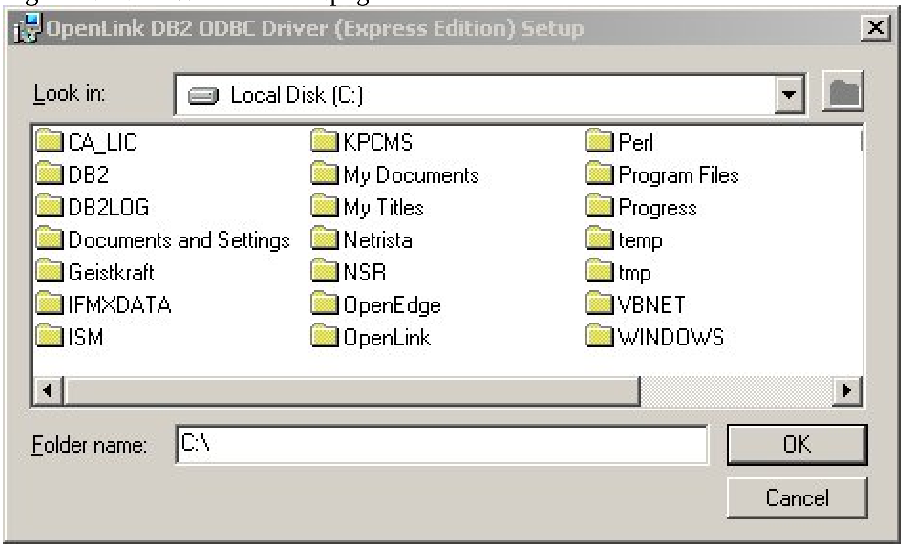
Don't have an account? Register...

Buy Single-Tier (Express Edition)...

You can proceed directly to online sales with this product to purchase a full license.

Select the license file to be used for the installation:

Figure 3.30. EEWindb2inst05.png

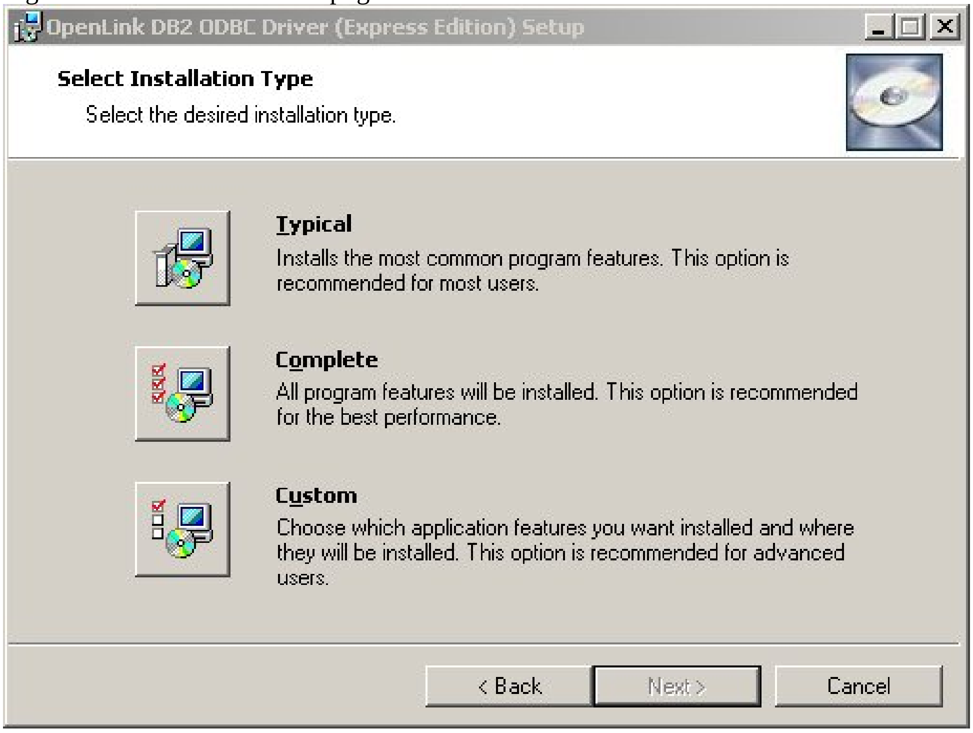


Look in: Local Disk (C:)

Folder name: C:\

Choose to perform a custom, typical or complete installation of the driver:

Figure 3.31. EEWindb2inst06.png



OpenLink DB2 ODBC Driver (Express Edition) Setup

Select Installation Type

Select the desired installation type.

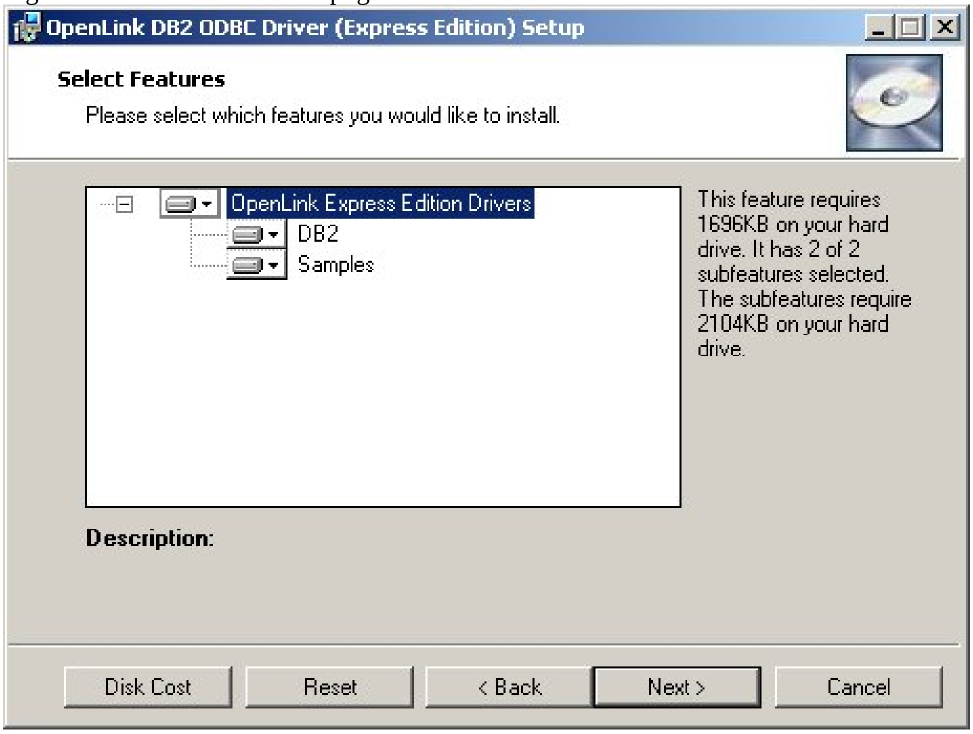
Typical
Installs the most common program features. This option is recommended for most users.

Complete
All program features will be installed. This option is recommended for the best performance.

Custom
Choose which application features you want installed and where they will be installed. This option is recommended for advanced users.

Select the features to be installed:

Figure 3.32. EEWindb2inst07.png



OpenLink DB2 ODBC Driver (Express Edition) Setup

Select Features

Please select which features you would like to install.

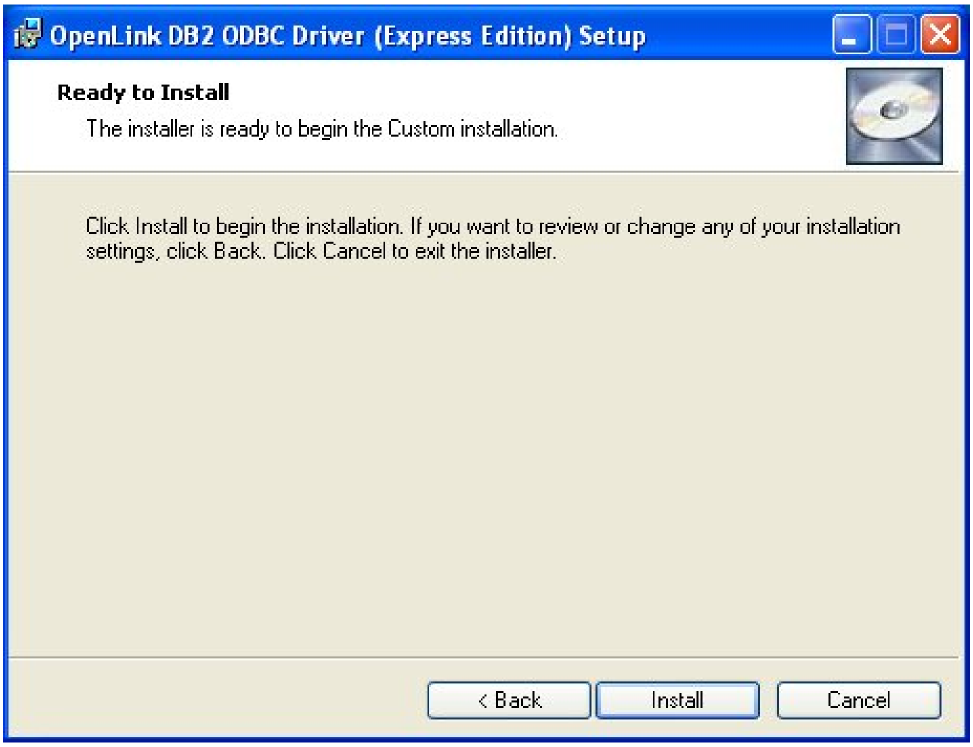
- OpenLink Express Edition Drivers
  - DB2
  - Samples

This feature requires 1696KB on your hard drive. It has 2 of 2 subfeatures selected. The subfeatures require 2104KB on your hard drive.

Description:

Click the install button to begin installation of the components:

Figure 3.33. EEWindb2inst12.png



OpenLink DB2 ODBC Driver (Express Edition) Setup

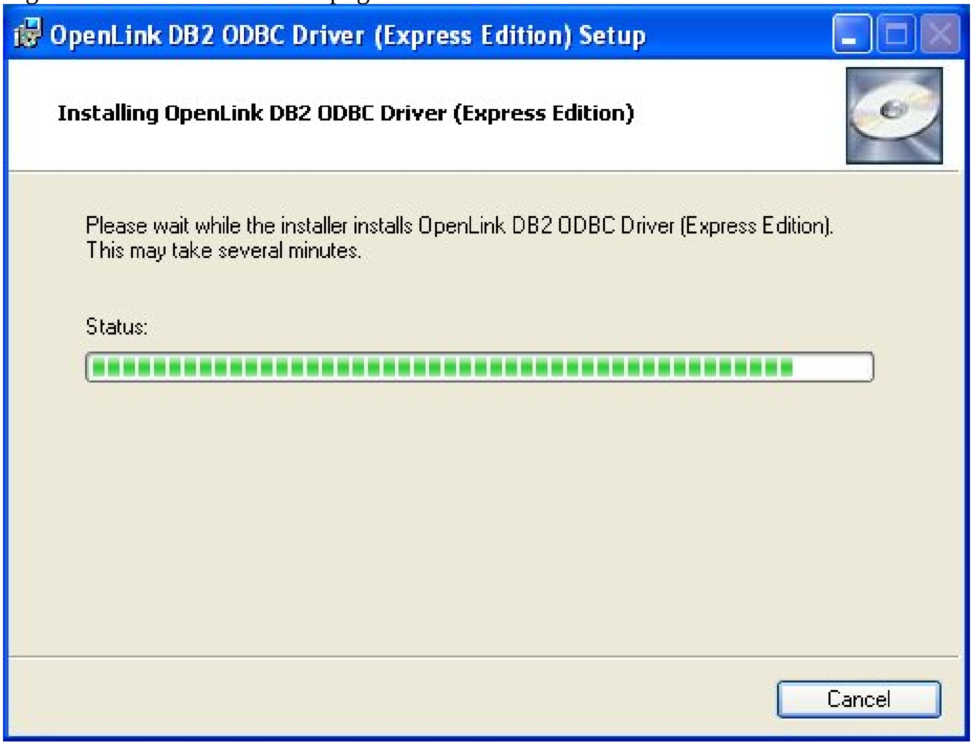
Ready to Install

The installer is ready to begin the Custom installation.

Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the installer.

Installation in progress:

Figure 3.34. EEWindb2inst11.png



OpenLink DB2 ODBC Driver (Express Edition) Setup

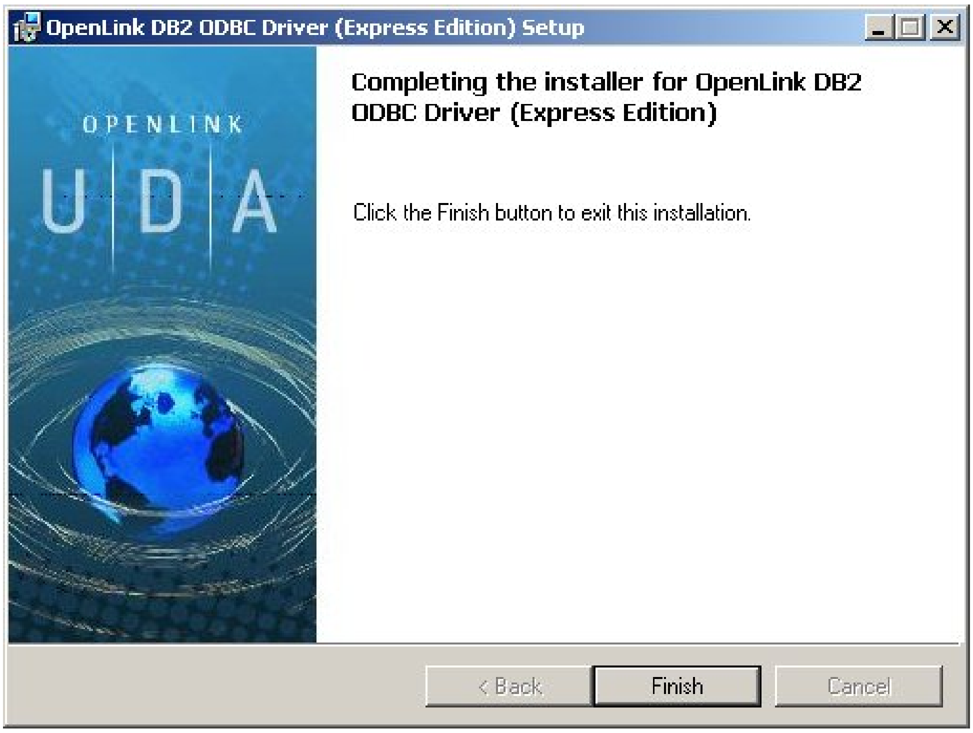
Installing OpenLink DB2 ODBC Driver (Express Edition)

Please wait while the installer installs OpenLink DB2 ODBC Driver (Express Edition). This may take several minutes.

Status:

The software installation is complete and ready for use:

Figure 3.35. EEWindb2inst10.png



OpenLink DB2 ODBC Driver (Express Edition) Setup

Completing the installer for OpenLink DB2 ODBC Driver (Express Edition)

Click the Finish button to exit this installation.

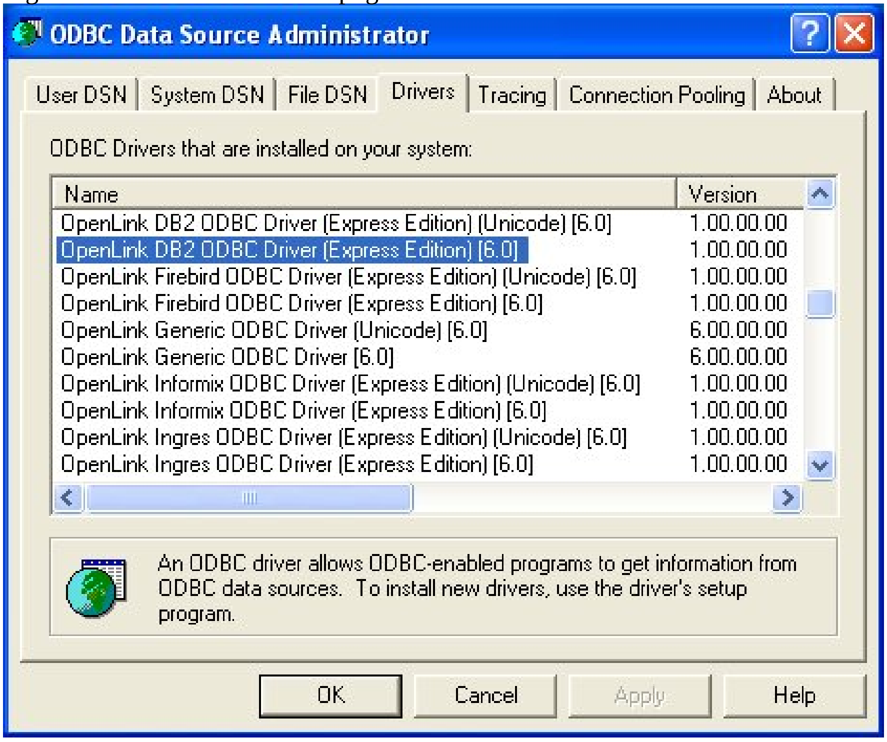
4.2.2 Configuration

To configure an ODBCDSN, run the ODBCAdministrator located in the Administrative Tools section of the Control Panel:

Figure 3.36. EEWindb2conf01.png

Click on the Drivers tab to confirm the OpenLinkDB2 ODBCDriver [Express Edition][6.0] has been successfully installed:

Figure 3.37. EEWindb2conf02.png



ODBC Data Source Administrator

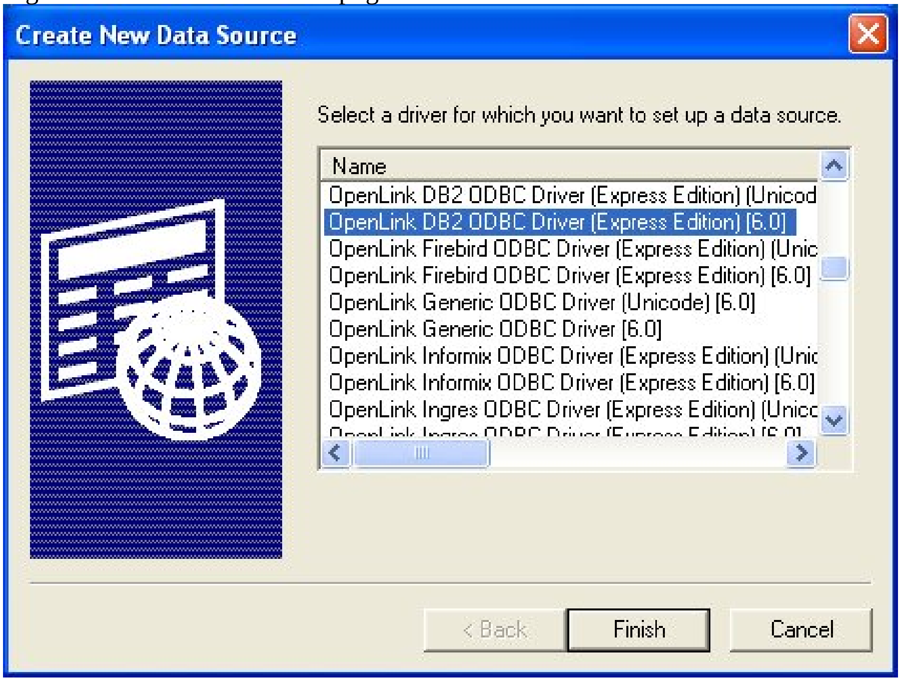
ODBC Drivers that are installed on your system:

Name	Version
OpenLink DB2 ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink DB2 ODBC Driver (Express Edition) [6.0]	1.00.00.00
OpenLink Firebird ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink Firebird ODBC Driver (Express Edition) [6.0]	1.00.00.00
OpenLink Generic ODBC Driver (Unicode) [6.0]	6.00.00.00
OpenLink Generic ODBC Driver [6.0]	6.00.00.00
OpenLink Informix ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink Informix ODBC Driver (Express Edition) [6.0]	1.00.00.00
OpenLink Ingres ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink Ingres ODBC Driver (Express Edition) [6.0]	1.00.00.00

An ODBC driver allows ODBC-enabled programs to get information from ODBC data sources. To install new drivers, use the driver's setup program.

From either the User or System DSN tabs, click on the Add button and select the OpenLinkDB2 ODBCDriver [Express Edition][6.0] from the list presented:

Figure 3.38. EEWindb2conf03.png



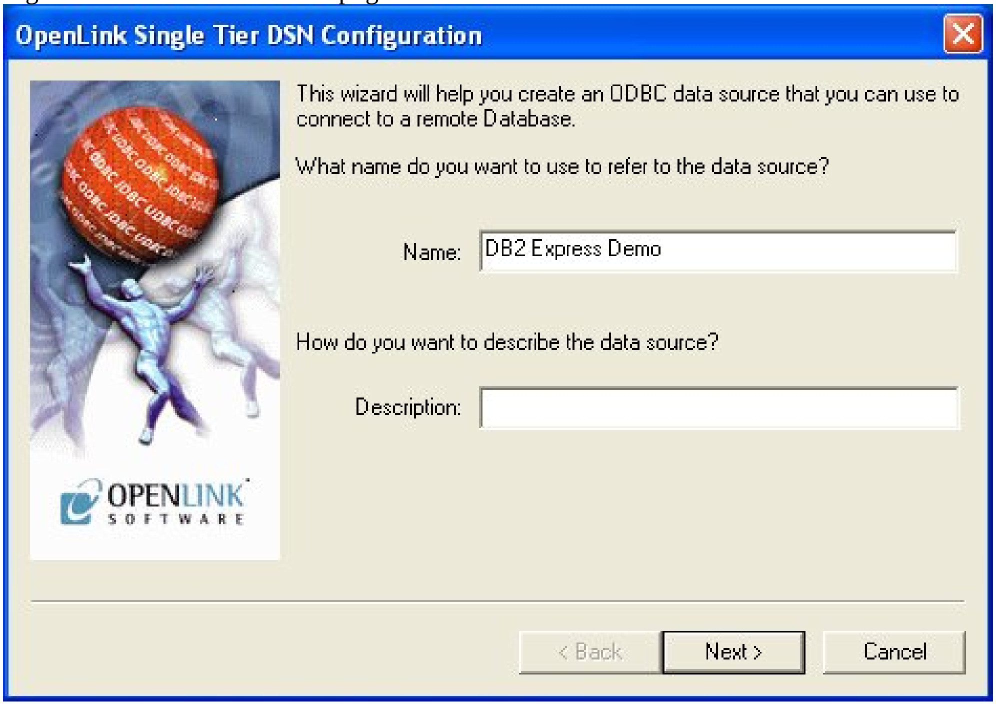
Create New Data Source

Select a driver for which you want to set up a data source.

Name
OpenLink DB2 ODBC Driver (Express Edition) (Unicod
OpenLink DB2 ODBC Driver (Express Edition) [6.0]
OpenLink Firebird ODBC Driver (Express Edition) (Unic
OpenLink Firebird ODBC Driver (Express Edition) [6.0]
OpenLink Generic ODBC Driver (Unicode) [6.0]
OpenLink Generic ODBC Driver [6.0]
OpenLink Informix ODBC Driver (Express Edition) (Unic
OpenLink Informix ODBC Driver (Express Edition) [6.0]
OpenLink Ingres ODBC Driver (Express Edition) (Unicc

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 3.39. EEWindb2conf04.png



OpenLink Single Tier DSN Configuration

This wizard will help you create an ODBC data source that you can use to connect to a remote Database.

What name do you want to use to refer to the data source?

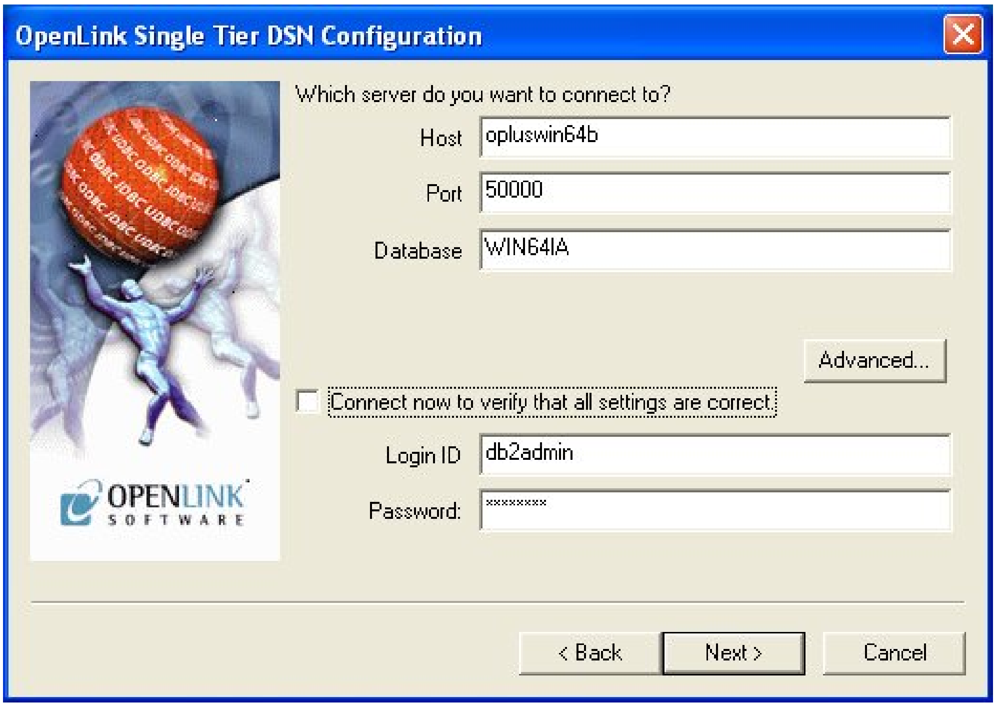
Name: DB2 Express Demo

How do you want to describe the data source?

Description:

The Connection tab requests the minimum parameters required to make a connection to the target database:

Figure 3.40. EEWindb2conf05.png



OpenLink Single Tier DSN Configuration

Which server do you want to connect to?

Host: opluswin64b

Port: 50000

Database: WIN64IA

□ Connect now to verify that all settings are correct

Login ID: db2admin

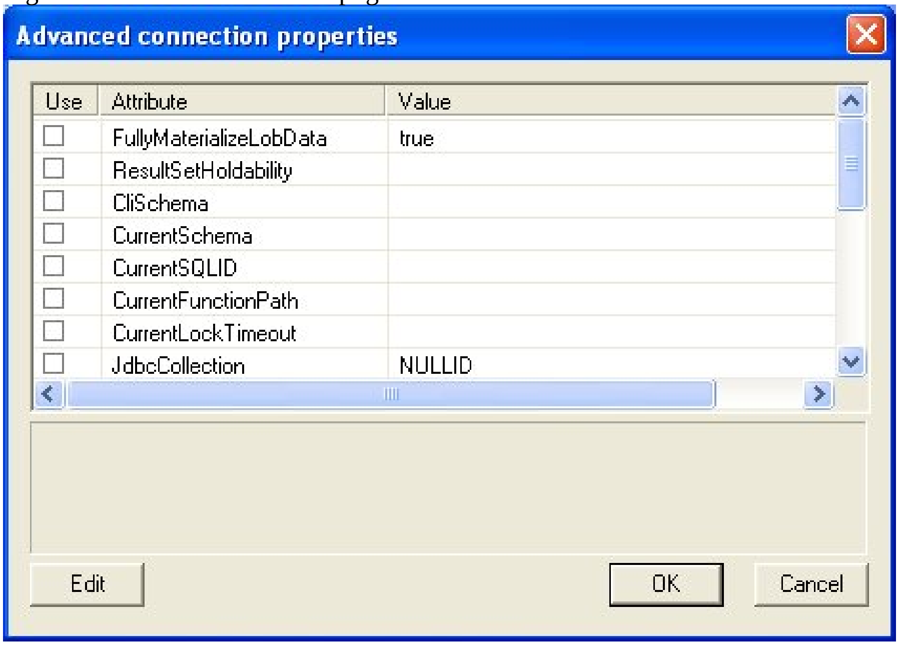
Password: ********

- *Host* : This is the fully qualified hostname or IP address of the machine hosting the DBMS you wish to access, e.g., dbms-server.example.com, or 192.168.155.123. Any hostname which will be resolved by your local DNS is acceptable.
- *Port* : This is the port on which DB2 is listening
- *Database* : This is the name of a valid DB2 database alias to which you want to connect
- *Login ID* : This is a valid user for the DB2 database
- *Password* : This is a valid password for the DB2 database

Click next to verify that all settings are correct or uncheck the check box to delay testing to a later stage.

The advanced button displays additional optional parameters that can be configured:

Figure 3.41. EEWindb2conf06.png



Advanced connection properties

Use	Attribute	Value
□	FullyMaterializeLobData	true
□	ResultSetHoldability	
□	CliSchema	
□	CurrentSchema	
□	CurrentSQLID	
□	CurrentFunctionPath	
□	CurrentLockTimeout	
□	JdbcCollection	NULLID

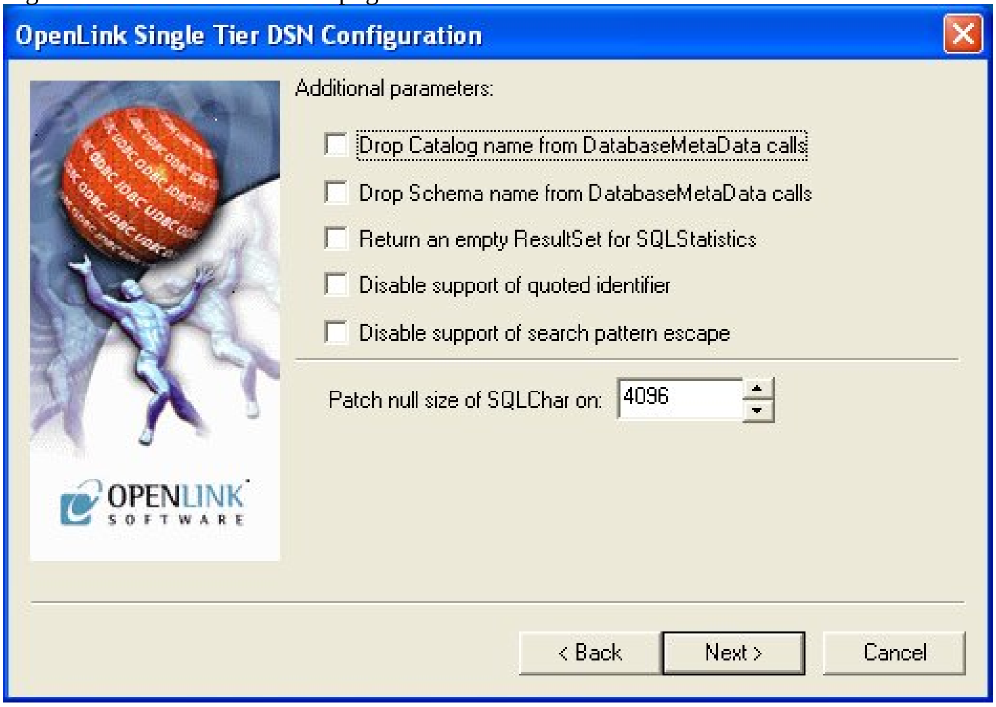
Table 3.2.

FullyMaterializeLobData	Indicates whether the driver retrieves LOB locators for FETCH operations. The data type of this propery is boolean. If the value is true, LOB data is fully materialized within the JDBC driver when a row is fetched. If this value is false, LOB data is streamed.
ResultSetHoldability	Specifies whether cursors remain open after a commit operation. Valid values are 1- HOLD_CURSORS_OVER_COMMIT or 2 - CLOSE_CURSORS_AT_COMMIT.
CLiSchema	Specifies the schema of the DB2 shadow catalog tables or views that are searched when an application invokes a DatabaseMetaData method.
CurrentSchema	Specifies the default schema name that is used to qualify unqualified database objects in dynamically prepared SQL statements. This value of this property sets the value in the CURRENT SCHEMA special register on a server other an a DB2 UDB for z/OS server. Do not set this property for a DB2 UDB for z/OS server.
CurrentSQLID	Specifies the authorization ID that is used for authorization checking on dynamically prepared CREATE, GRANT, and REVOKE SQL statements. The owner of a table space, database, storage group, or synonym that is created by a dynamically issued CREATE statement. The implicit qualifier of all table, view, alias, and index names specified in dynamic SQL statements.
CurrentFunctionPath	Species th SQL path that is used to resolve unqualified data type names and function names in SL statements that are in JDBC programs. The data type of this property is String. For a DB2 UDB for Linux, UNIX, and Windows server, the maximum length is 254 bytes. The value is a comma-separated list of schema names. Those names can be ordinary or delimited identifiers.
CurrentLockTimeout	Directs DB2 UDB for Linux, UNIX, and Windows servers to wait indefinitely for a lock or to wait for the specified number of seconds for a lock when the lock cannot be obtained immediately. The data type of this property is Int. A value of zero means no wait. A value of -1 means to wait indefinitely. A postive integer indicates the number of seconds to wait for a lock.
JdbcCollection	Specifies the collection ID for the packages that are used by an instance of the DB2 Universal JDBC Driver at run time. The data type of jdbcCollection is String. The default is NULLID.
CurrentPackageSet	Specifies the collection ID to search for DB2 packages for the DB2 Universal JDBC Driver. The data type of this property is String. The default is NULLID. If currentPackageSet is set, its value overrides the value of jdbcCollection.
CurrentPackagePath	Species a comma-separated list of collections on the server. The DB2 server searches these collections for the DB2 packages for the DB2 Universal JDBC Driver. The precedence rules for the currentPackagePath and currentPackageSet properties follow the precedence rules for the DB2 CURRENT PACKAGESET and CURRENT PACKAGE PATH special registers.
SecurityMechanism	Specifies theDRDA security mechanism. Possible values are: 3 - User ID and password, 4 - User ID only, 7 - User ID, encrypted password, 9 - Encrypted user ID and password, 11 - Kerberos. If this property is specified, the specified security mechanism is the only mechanism that is used. If the security mechanism is not supported by the connection, an exception is thrown.
KerberosServerPrincipal	For a data source that uses Kerberos security, this specifies the name that is used for the data source when it is registered with the Kerberos Key Distribution Center (KDC).
DeferPrepares	Specifies whether to defer prepare operations until run time. The data type of this property is boolean.
ClientUser	Specifies the current client user name for the connection. This information is for client accounting purposes. Unlike the connection user name, this value can change during a connection. For a DB2 UDB for Linux, UNIX, and Windows servers, the maximum length is 255 bytes.
ClientWorkstation	Specifies the workstation name for the current client for the connection. This information is for client accounting purposes. This value can change during a connection. The data type of this property is String. For a DB2 UDB for Linux, UNIX, and Windows servers, the maximum length is 255 bytes.

ClientApplicationInformation	Specifies the application information for the current client for the connection. This information is for client accounting purposes. This value can change during a connection. The data type of this property is String. For a DB2 UDB for Linux, UNIX, and Windows servers, the maximum length is 255 bytes.
ClientAccountingInformation	Specifies accounting information for the current client for the connection. This information is for client accounting purposes. This value can change during a connection. The data type of this property is String. For a DB2 UDB for Linux, UNIX, and Windows servers, the maximum length is 255 bytes.

As indicated above, the parameters on the options and preferences tabs are not required for a basic connection.

Figure 3.42. EEWindb2conf07.png



OpenLink Single Tier DSN Configuration

Additional parameters:

☐ Drop Catalog name from DatabaseMetaData calls

☐ Drop Schema name from DatabaseMetaData calls

☐ Return an empty ResultSet for SQLStatistics

☐ Disable support of quoted identifier

☐ Disable support of search pattern escape

Patch null size of SQLChar on: 4096

- *Drop Catalog name from DatabaseMetaData calls* - Enable this option to have the catalog name not appear for tables, views, and procedures when requesting database meta-data.

- *Drop Schema name from DatabaseMetaData calls* - Enable this option to have the schema-name not appear for tables, views, and procedures when requesting database meta-data.

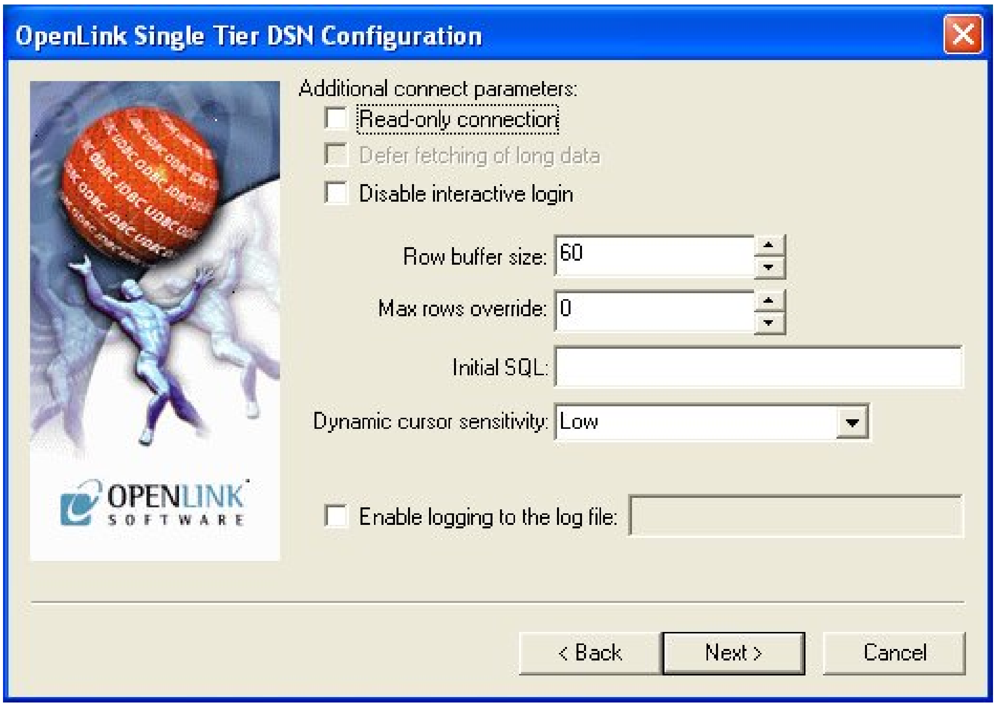
- *Return an empty ResultSet for SQLStatistics* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table, e.g., what indexes there are on it.

- *Disable support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if the DBMS does not support quoted SQL, e.g., select * from "account."

- *Disable support of search pattern escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if the DBMS does not support SQL escape patterns.

- *Patch of NULL size of SQL_CHAR* - If set, this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0, the driver uses the size returned by the database.

Figure 3.43. EEWindb2conf08.png



OpenLink Single Tier DSN Configuration

Additional connect parameters:

- ☐ Read-only connection
- ☐ Defer fetching of long data
- ☐ Disable interactive login

Row buffer size: 60

Max rows override: 0

Initial SQL:

Dynamic cursor sensitivity: Low

☐ Enable logging to the log file:

- *Read Only connection* - Specify whether the connection is to be "Read-only". Make sure the checkbox is unchecked to request a "Read/Write" connection

- *Disable Interactive Login* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.

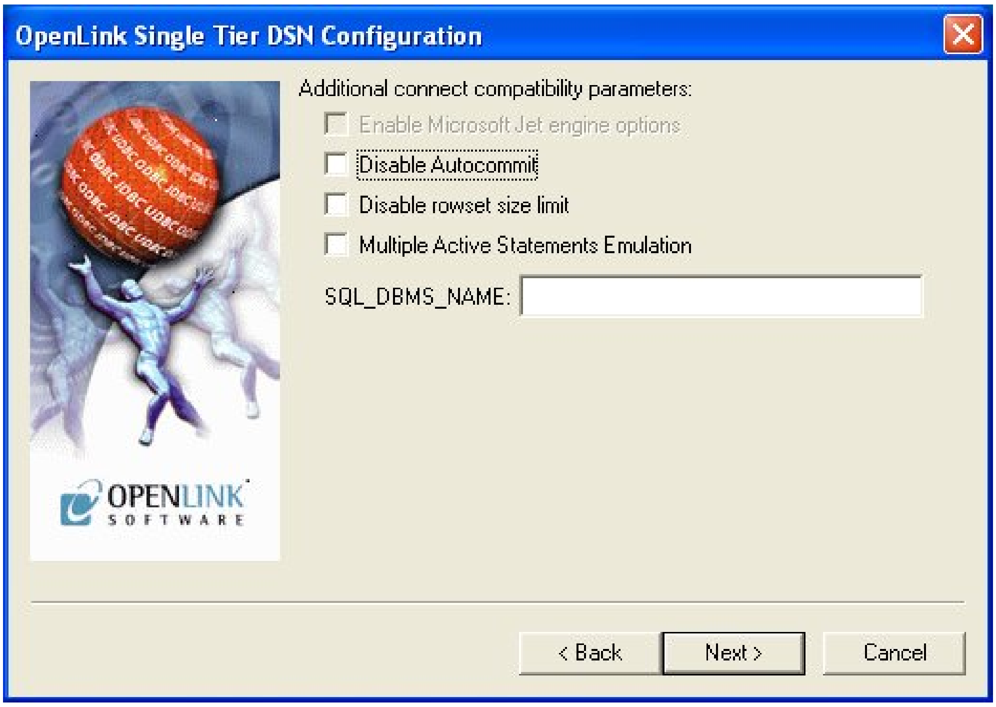
- *Max rows override* - Allows you to define a limit on the maximum number of rows to be returned from a query. The default value of 0 means no limit.

- *Initial SQL* - Lets you specify a file containing SQL statements that will be automatically run against the database upon connection.

- *Dynamic Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched, and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED, when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows do not appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate OpenLink script for the target database.

* *Enable logging to the log file:*- Specifies the full path to a text file. If the associated checkbox is checked, and a file is passed, the driver will log auto-generate a clientside ODBCtrace.

Figure 3.44. EEWindb2conf09.png



OpenLink Single Tier DSN Configuration

Additional connect compatibility parameters:

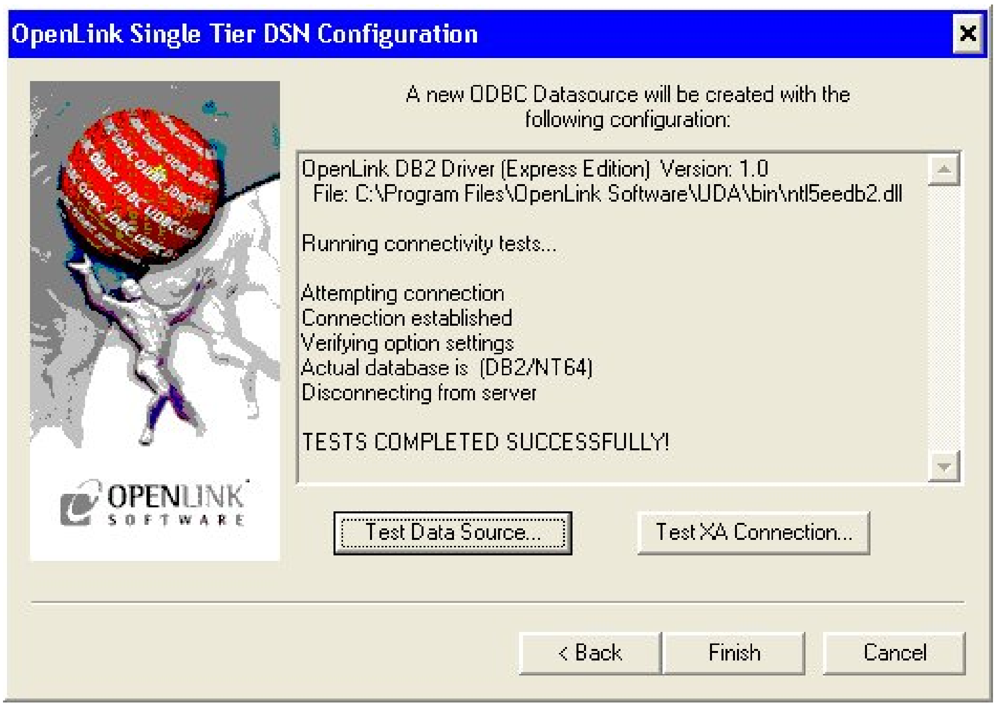
- □ Enable Microsoft Jet engine options
- □ Disable Autocommit
- □ Disable rowset size limit
- □ Multiple Active Statements Emulation

SQL_DBMS_NAME:

- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Driver. The default mode is AutoCommit (box unchecked).
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset generated from an erroneous query is very large. The limit is normally never reached.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.
- *SQL_DBMS Name* - Manually override the SQLGetInfo(SQL_DBMS_NAME) response returned by the driver. This is required for products like Microsoft InfoPath for which the return value must be "SQL Server".

Click on the *Test Data Source*button to verify that a successful connection can be made to the database.

Figure 3.45. EEWindb2conf10.png



A new ODBC Datasource will be created with the following configuration:

```
OpenLink DB2 Driver (Express Edition)  Version: 1.0
  File: C:\Program Files\OpenLink Software\UDA\bin\ntl5eedb2.dll

Running connectivity tests...

Attempting connection
Connection established
Verifying option settings
Actual database is  (DB2/NT64)
Disconnecting from server

TESTS COMPLETED SUCCESSFULLY!
```

5 Chapter 4. OpenLink ODBC Driver for Firebird (Express Edition)

Table of Contents

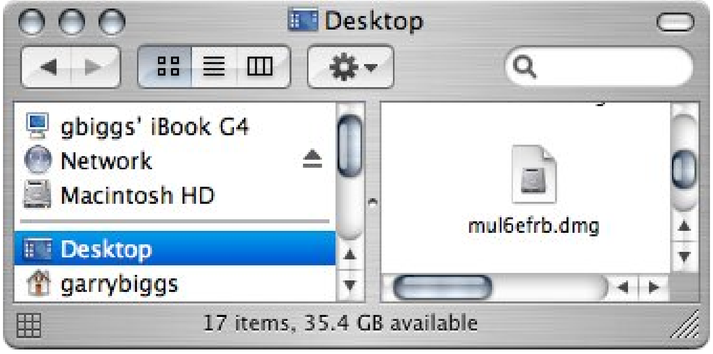
- OpenLink ODBC Driver for Firebird (Express Edition) for Mac OS X
  - Installation Guide
  - Configuration
- OpenLink ODBC Driver for Firebird (Express Edition) for Windows
  - Installation
  - Configuration

5.1 OpenLink ODBC Driver for Firebird (Express Edition) for Mac OS X

5.1.1 Installation Guide

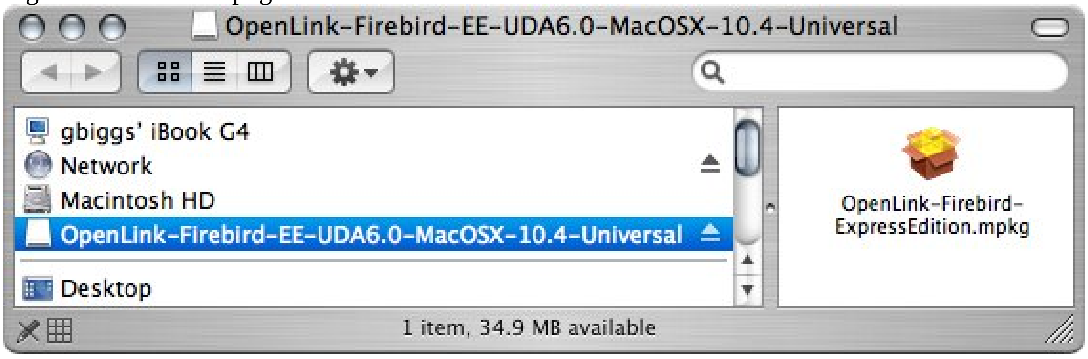
The OpenLink ODBC Driver for Firebird (Express Edition) is distributed as a Disk image (DMG) file. Simply double click on the disk image 'mul6efrb.dmg' to extract the installer mpkg file:

Figure 4.1. ee-frb-00.png



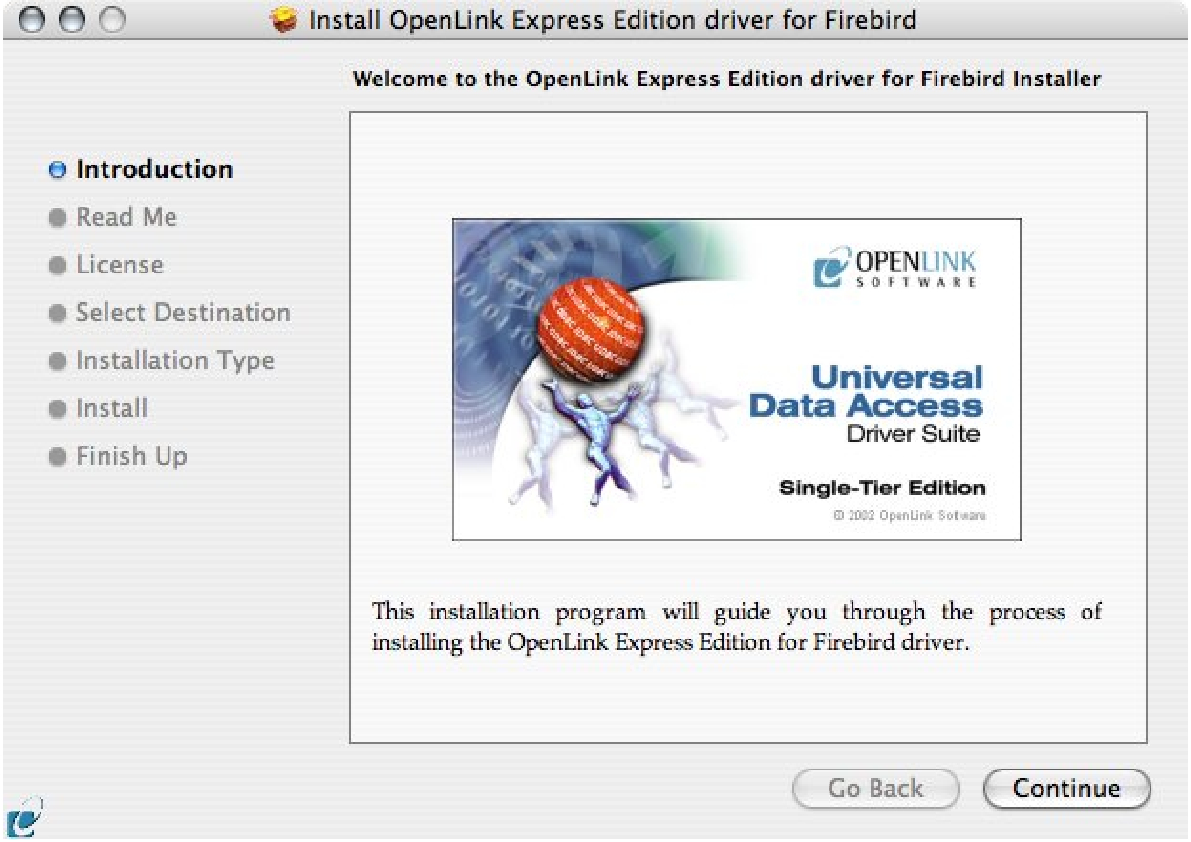
Double click on the mpkg file to run the installer and following the on screen instriuction as indicated below to complete the installation:

Figure 4.2. ee-frb-01.png


OpenLink-Firebird-EE-UDA6.0-MacOSX-10.4-Universal
gbiggs' iBook G4
Network
Macintosh HD
OpenLink-Firebird-EE-UDA6.0-MacOSX-10.4-Universal
Desktop
OpenLink-Firebird-ExpressEdition.mpkg
1 item, 34.9 MB available

Installer Welcome Dialog for the OpenLink ODBC Driver for Firebird (Express Edition):

Figure 4.3. ee-frb-02.png



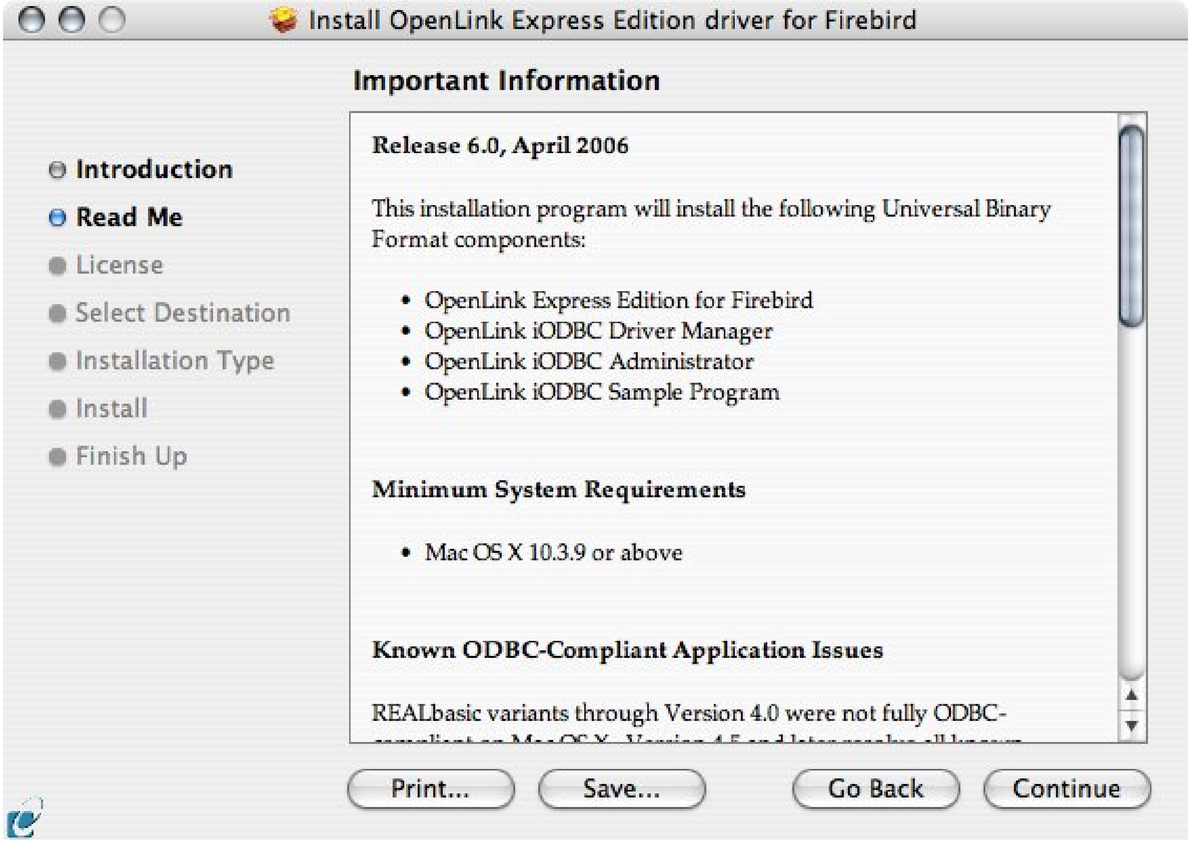
Install OpenLink Express Edition driver for Firebird

Welcome to the OpenLink Express Edition driver for Firebird Installer

This installation program will guide you through the process of installing the OpenLink Express Edition for Firebird driver.

Please review the readme file for installation requirements and known issues:

Figure 4.4. ee-frb-03.png



Install OpenLink Express Edition driver for Firebird

Important Information

Release 6.0, April 2006

This installation program will install the following Universal Binary Format components:

- OpenLink Express Edition for Firebird
- OpenLink iODBC Driver Manager
- OpenLink iODBC Administrator
- OpenLink iODBC Sample Program

Minimum System Requirements

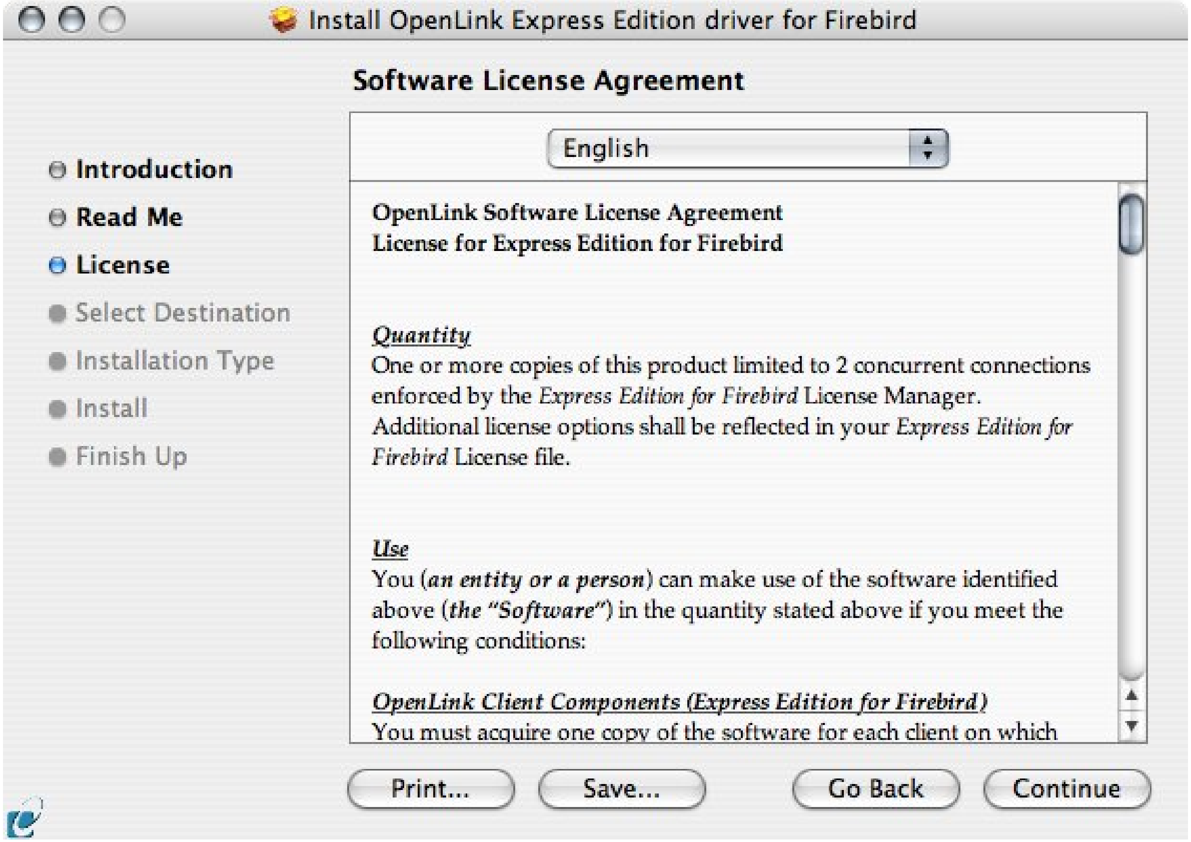
- Mac OS X 10.3.9 or above

Known ODBC-Compliant Application Issues

REALbasic variants through Version 4.0 were not fully ODBC-

Please read the software license agreement before continuing your installation:

Figure 4.5. ee-frb-04.png



OpenLink Software License Agreement
License for Express Edition for Firebird

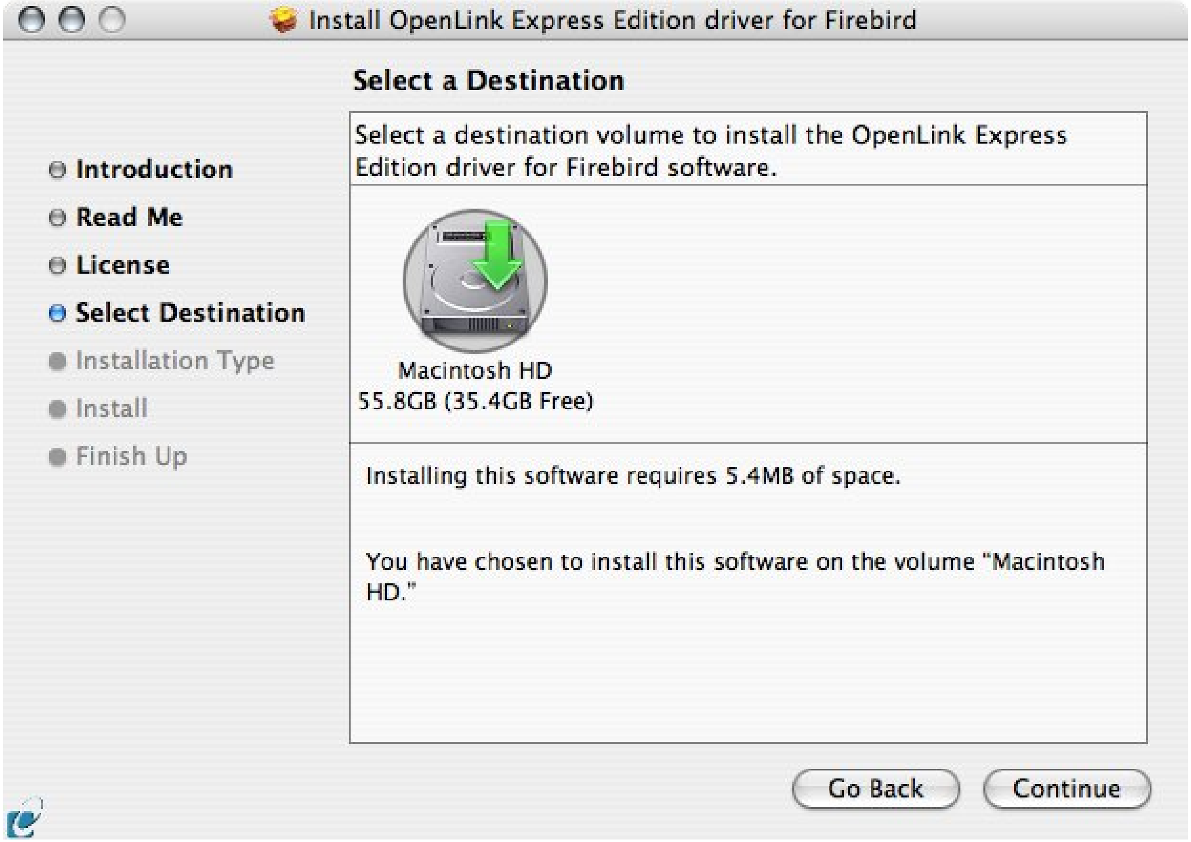
Quantity
One or more copies of this product limited to 2 concurrent connections enforced by the *Express Edition for Firebird* License Manager. Additional license options shall be reflected in your *Express Edition for Firebird* License file.

Use
You (***an entity or a person***) can make use of the software identified above (***the "Software"***) in the quantity stated above if you meet the following conditions:

OpenLink Client Components (Express Edition for Firebird)
You must acquire one copy of the software for each client on which

Select destination volume for driver installation:

Figure 4.6. ee-frb-05.png



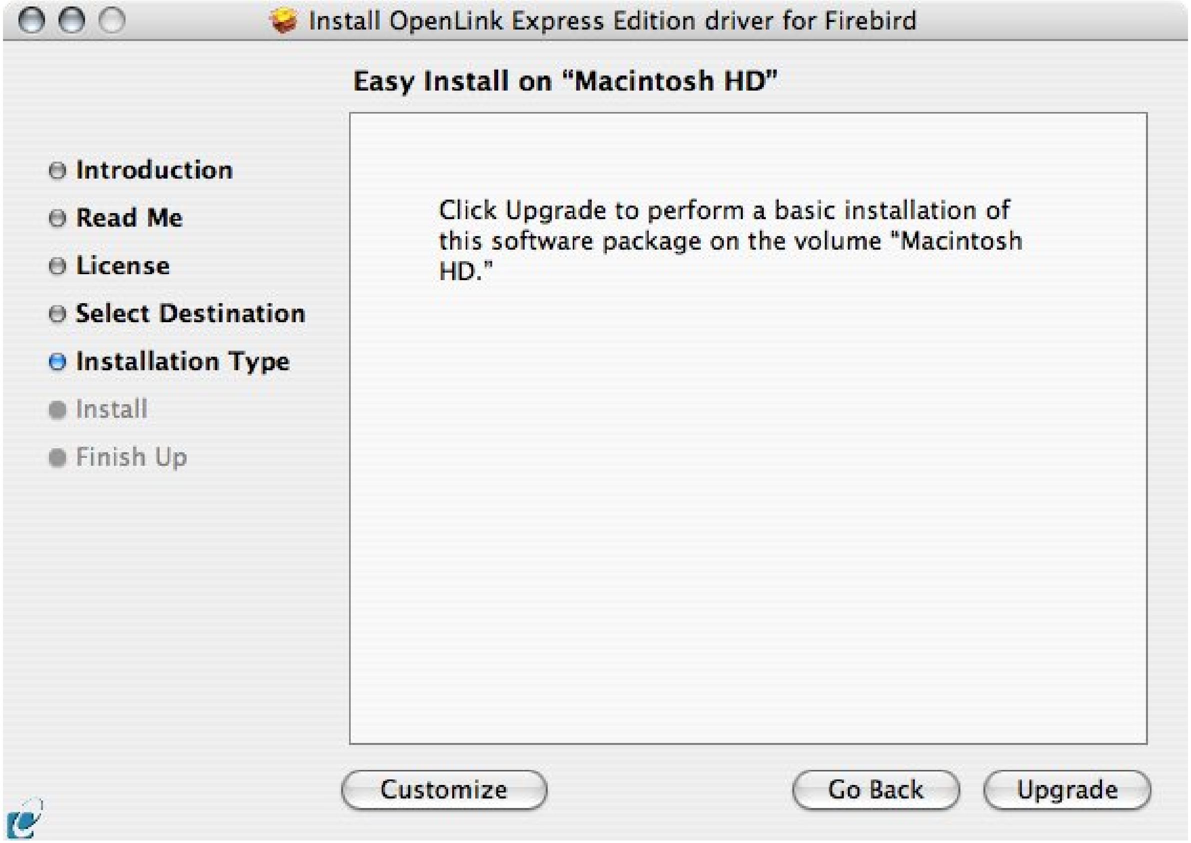
Select a destination volume to install the OpenLink Express Edition driver for Firebird software.

Installing this software requires 5.4MB of space.

You have chosen to install this software on the volume "Macintosh HD."

Choose to perform a custome or default installation of the driver:

Figure 4.7. ee-frb-06.png

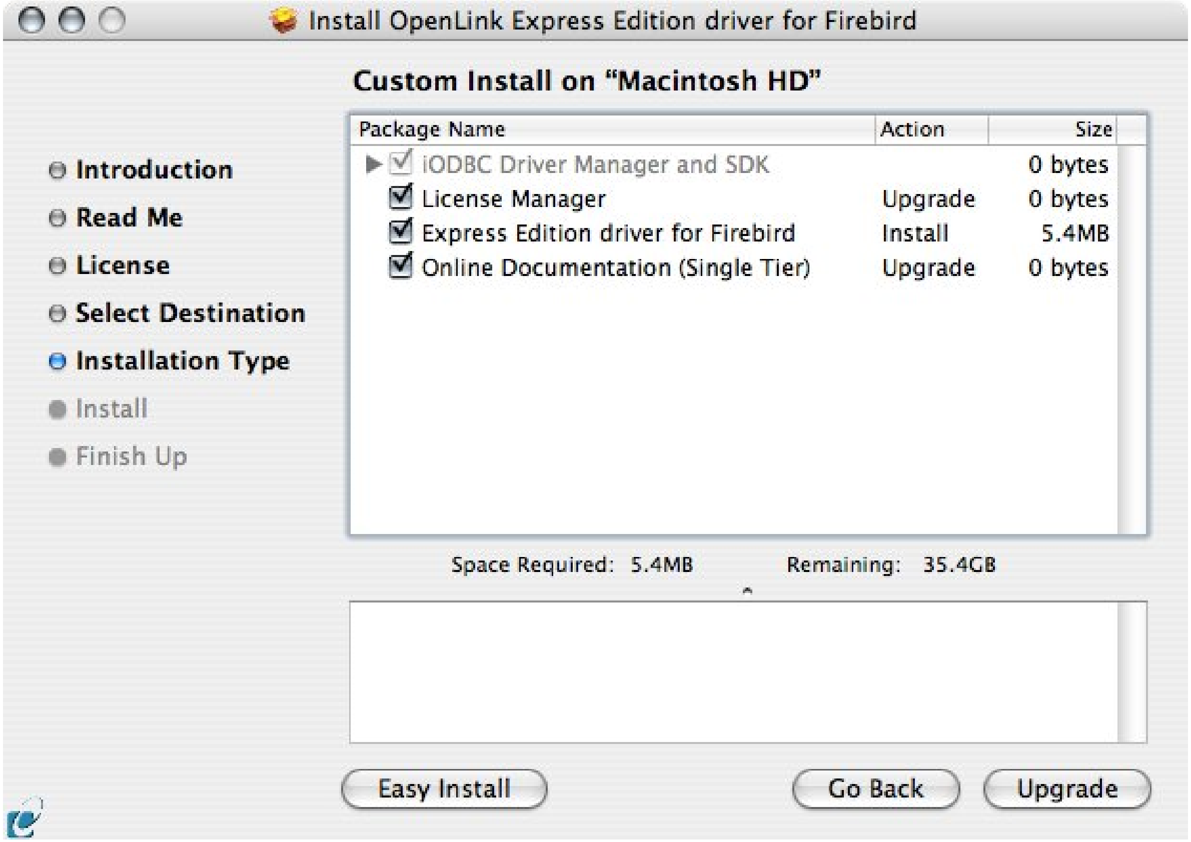


Easy Install on "Macintosh HD"

Click Upgrade to perform a basic installation of this software package on the volume "Macintosh HD."

If you chose the custom option select which of the components below are to be installed:

Figure 4.8. ee-frb-07.png



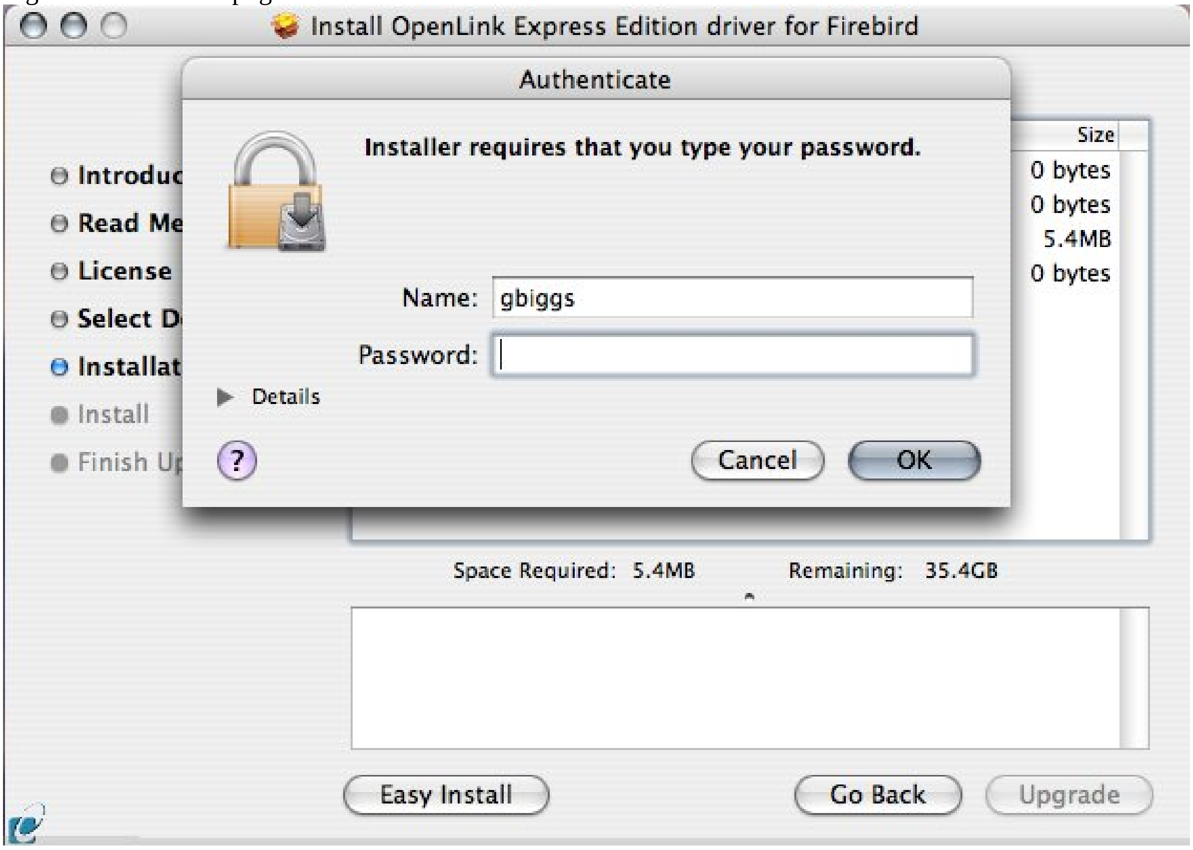
Custom Install on "Macintosh HD"

Package Name	Action	Size
▶ ☑ iODBC Driver Manager and SDK		0 bytes
☑ License Manager	Upgrade	0 bytes
☑ Express Edition driver for Firebird	Install	5.4MB
☑ Online Documentation (Single Tier)	Upgrade	0 bytes

Space Required: 5.4MB Remaining: 35.4GB

The Software must be installed as a user with Administrative privileges on the machine:

Figure 4.9. ee-frb-08.png



Install OpenLink Express Edition driver for Firebird

Authenticate

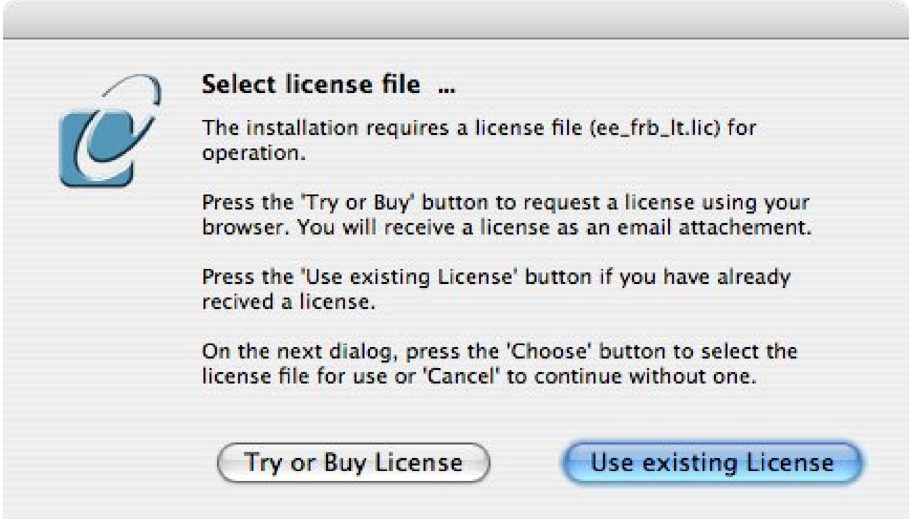
Installer requires that you type your password.

Name: gbiggs

Password:

After the driver has been installed you will be prompted for a license file. If a license file already exists on the machine then select the 'use exisiting file' option. A trial (try) or full (buy) license can be obtain by selecting the 'try and buy' option which loads our online try and buy web page:

Figure 4.10. ee-frb-09.png



Select license file ...

The installation requires a license file (ee_frb_lt.lic) for operation.

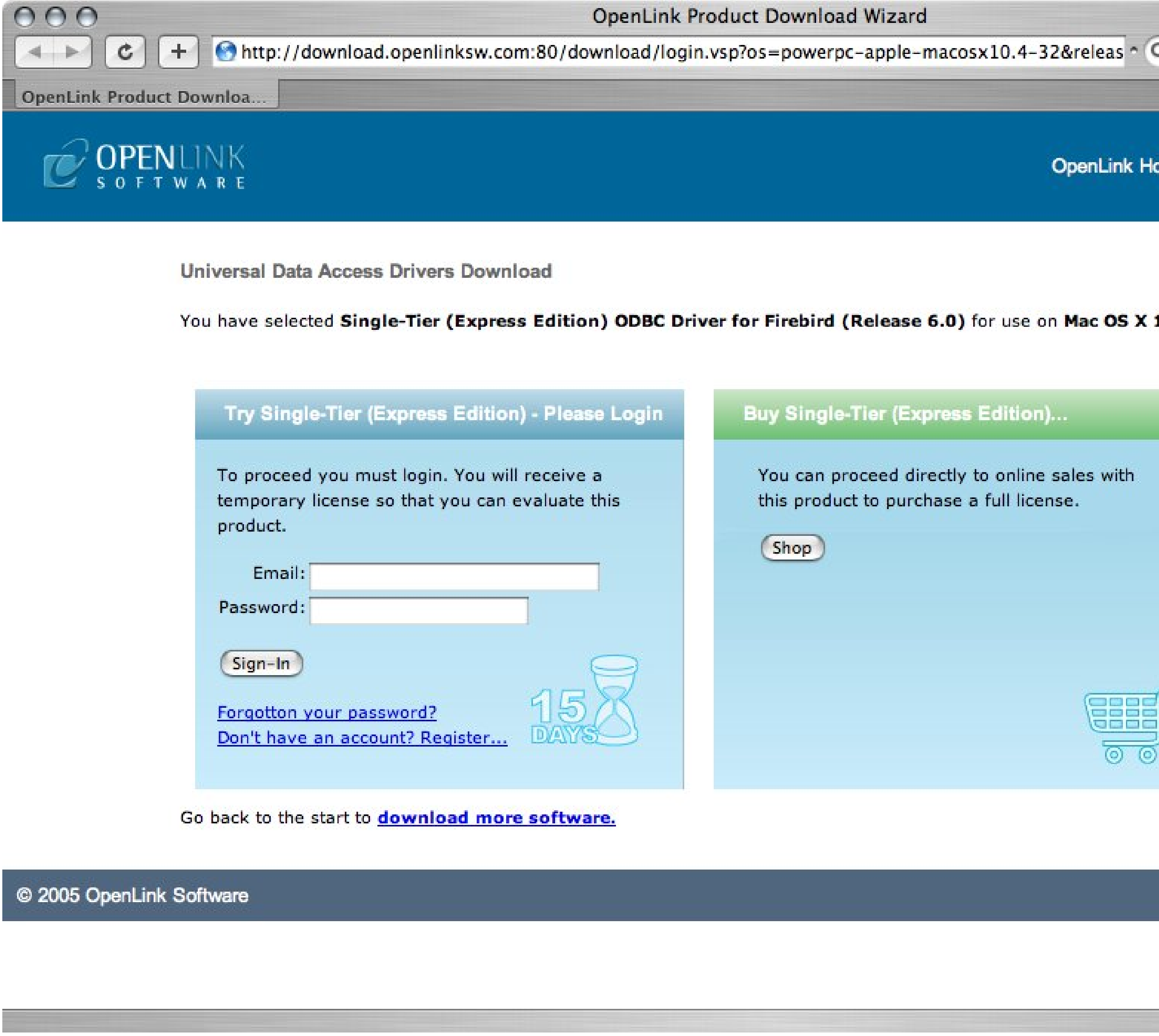
Press the 'Try or Buy' button to request a license using your browser. You will receive a license as an email attachement.

Press the 'Use existing License' button if you have already recived a license.

On the next dialog, press the 'Choose' button to select the license file for use or 'Cancel' to continue without one.

To obtain the trial license you must be a registered user on the OpenLink Web site and login with the username (e-mail address) and password for that user. Click on the 'Shop' link to visit our online shop cart to purchases a full license if required:

Figure 4.11. ee-frb-10.png



OpenLink Product Download Wizard

http://download.openlinksw.com:80/download/login.vsp?os=powerpc-apple-macosx10.4-32&releas

OpenLink Product Downloa...

Universal Data Access Drivers Download

You have selected **Single-Tier (Express Edition) ODBC Driver for Firebird (Release 6.0)** for use on **Mac OS X 1**

Try Single-Tier (Express Edition) - Please Login

To proceed you must login. You will receive a temporary license so that you can evaluate this product.

Email:

Password:

Sign-In

Forgotton your password?

Don't have an account? Register...

Buy Single-Tier (Express Edition)...

You can proceed directly to online sales with this product to purchase a full license.

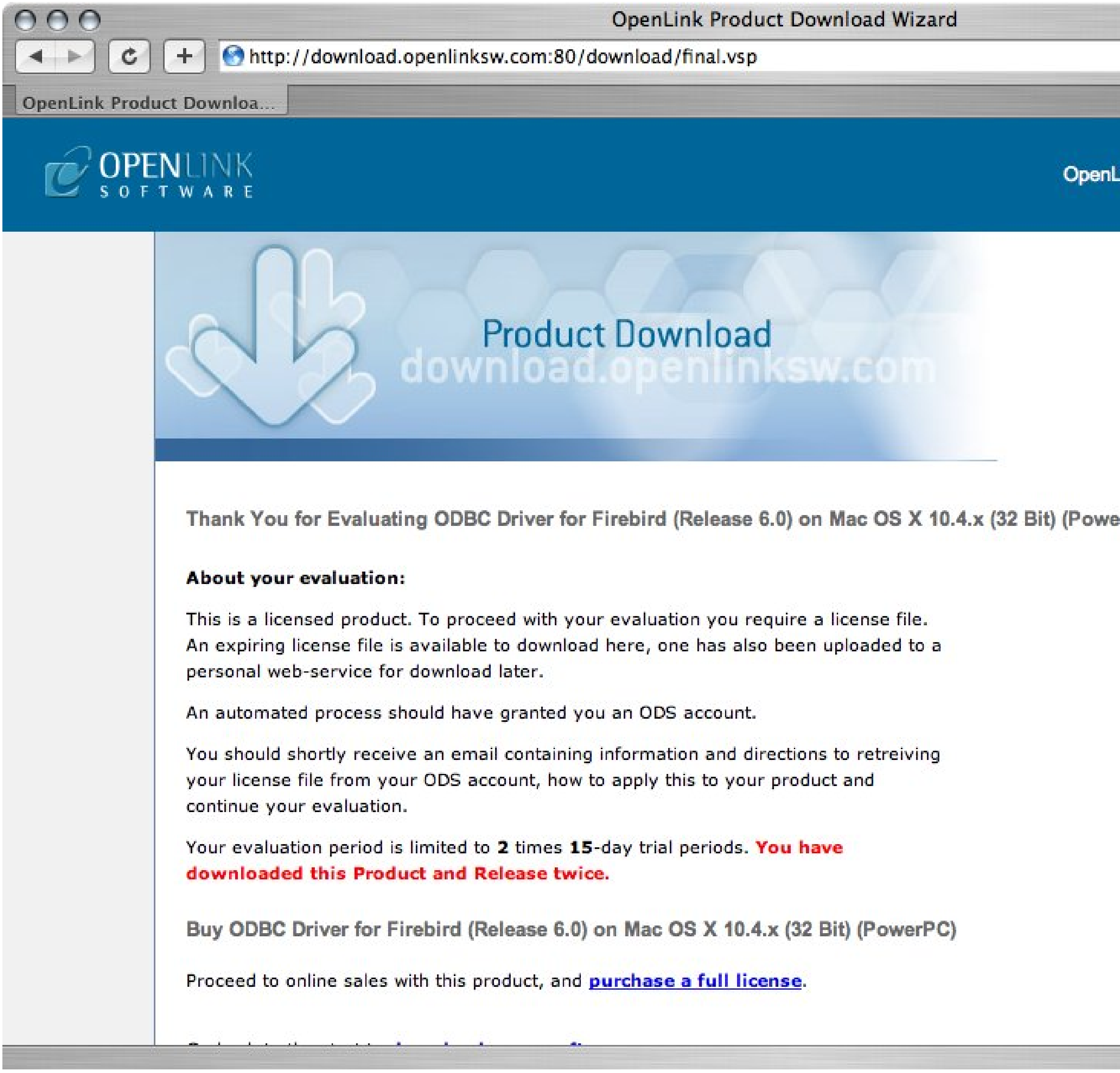
Shop

Go back to the start to **download more software.**

© 2005 OpenLink Software

Click on the 'download license' button to obtain the license file immediately and save to your desktop. Alternatively an auto e-mail will be sent to the registered users e-mail address with a link to their OpenLink Data Space (ODS) where all trial and full license files will be stored in the Briefcase for download at a later date.

Figure 4.12. ee-frb-11.png



OpenLink Product Download Wizard
http://download.openlinksw.com:80/download/final.vsp
OpenLink Product Downloa...
OPENLINK SOFTWARE
OpenL
Product Download
download.openlinksw.com

Thank You for Evaluating ODBC Driver for Firebird (Release 6.0) on Mac OS X 10.4.x (32 Bit) (Powe

About your evaluation:

This is a licensed product. To proceed with your evaluation you require a license file. An expiring license file is available to download here, one has also been uploaded to a personal web-service for download later.

An automated process should have granted you an ODS account.

You should shortly receive an email containing information and directions to retreiving your license file from your ODS account, how to apply this to your product and continue your evaluation.

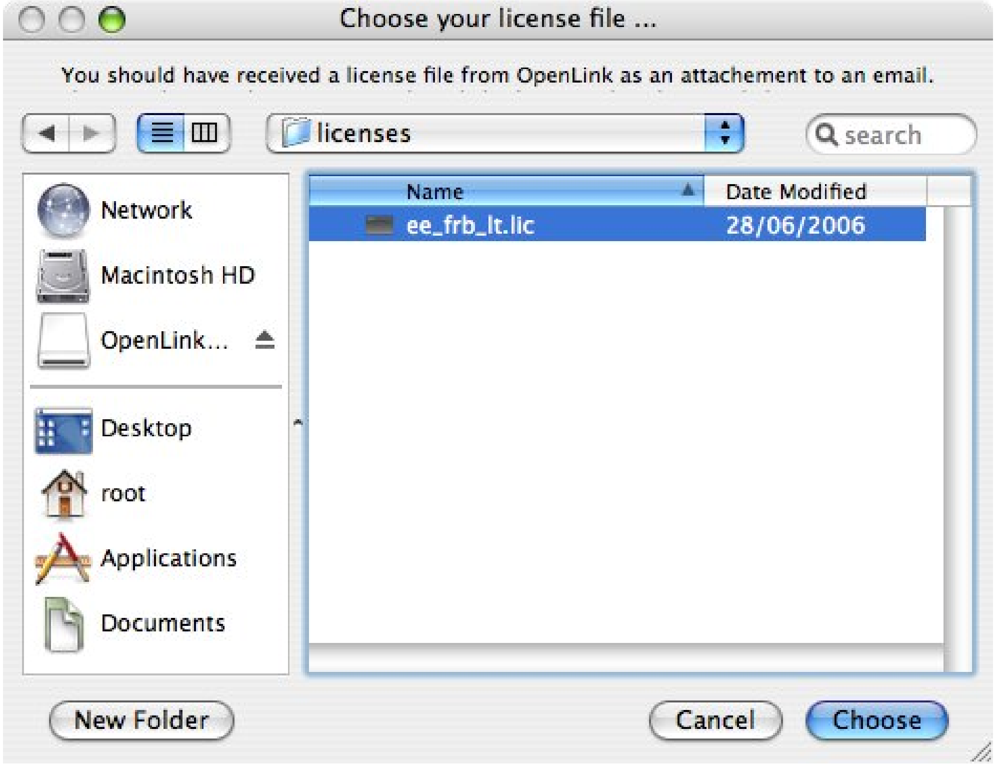
Your evaluation period is limited to **2** times **15**-day trial periods. **You have downloaded this Product and Release twice.**

Buy ODBC Driver for Firebird (Release 6.0) on Mac OS X 10.4.x (32 Bit) (PowerPC)

Proceed to online sales with this product, and **purchase a full license**.

Select the license file to be used for the installation:

Figure 4.13. ee-frb-12.png

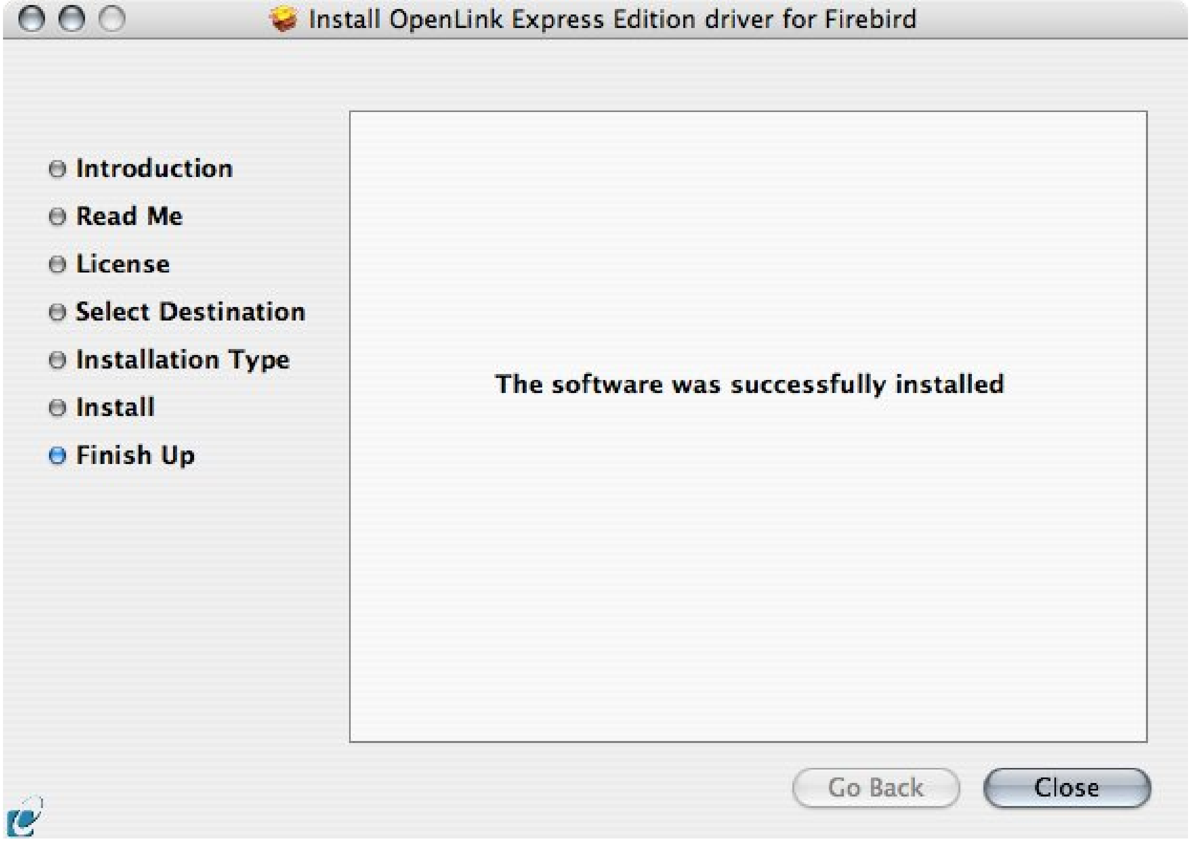


Choose your license file ...

You should have received a license file from OpenLink as an attachement to an email.

Installation is complete:

Figure 4.14. ee-frb-13.png



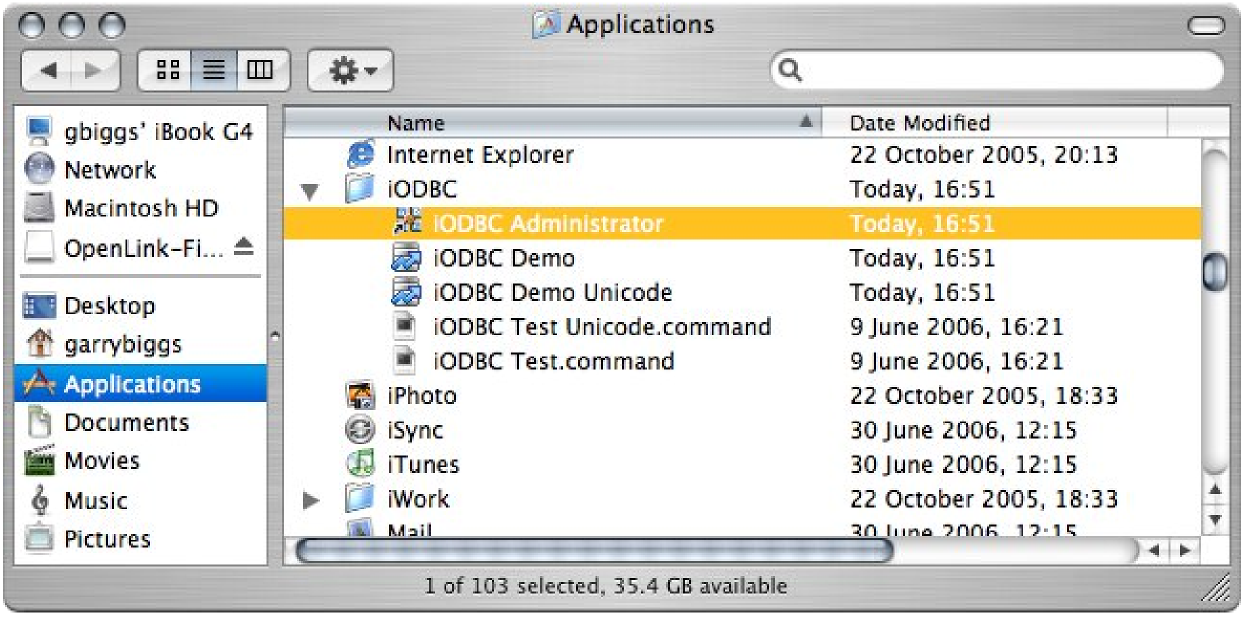
Install OpenLink Express Edition driver for Firebird

The software was successfully installed

5.1.2 Configuration

To configure an ODBC DSN, run the OpenLink iODBC Administrator located in the /Applications/iODBC folder:

Figure 4.15. ee-frb-14.png

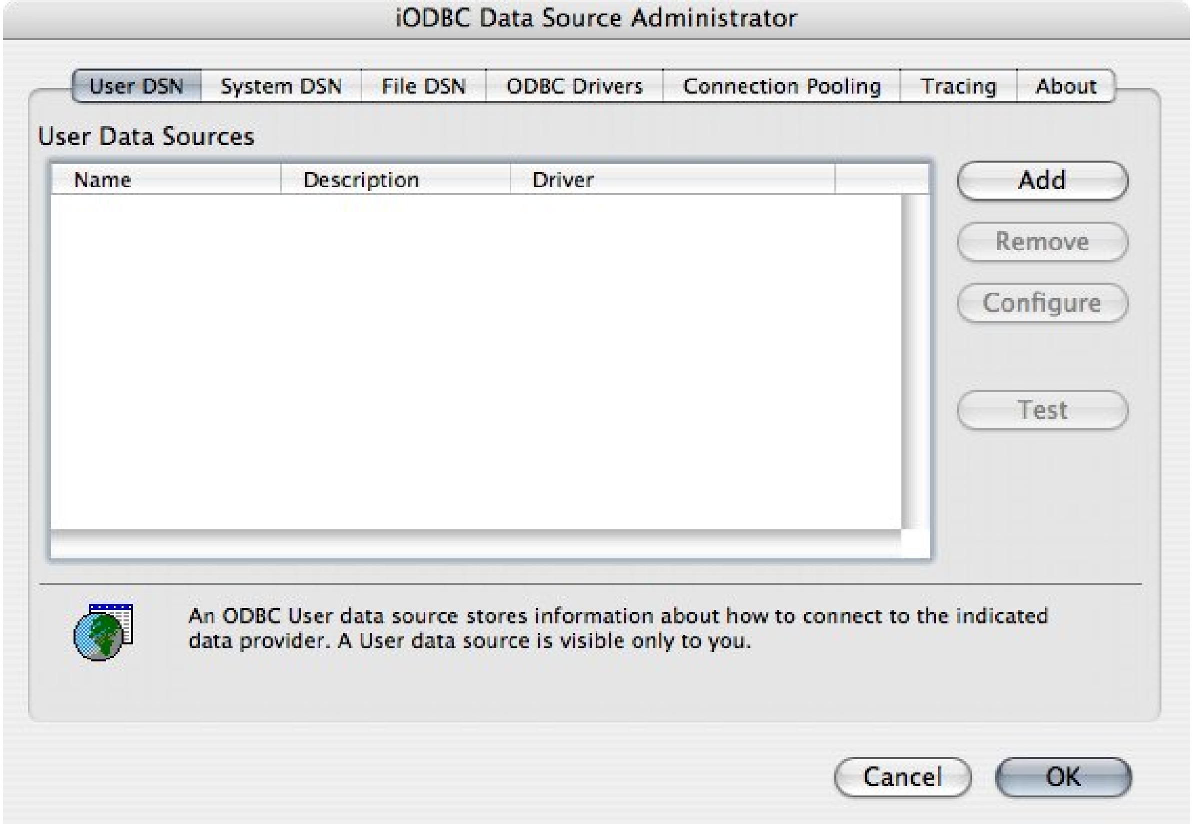


Name	Date Modified
Internet Explorer	22 October 2005, 20:13
iODBC	Today, 16:51
iODBC Administrator	Today, 16:51
iODBC Demo	Today, 16:51
iODBC Demo Unicode	Today, 16:51
iODBC Test Unicode.command	9 June 2006, 16:21
iODBC Test.command	9 June 2006, 16:21
iPhoto	22 October 2005, 18:33
iSync	30 June 2006, 12:15
iTunes	30 June 2006, 12:15
iWork	22 October 2005, 18:33
Mail	30 June 2006, 12:15

1 of 103 selected, 35.4 GB available

Click on the add button to Choose the ODBC Driver the DSN should be created for:

Figure 4.16. ee-frb-15.png

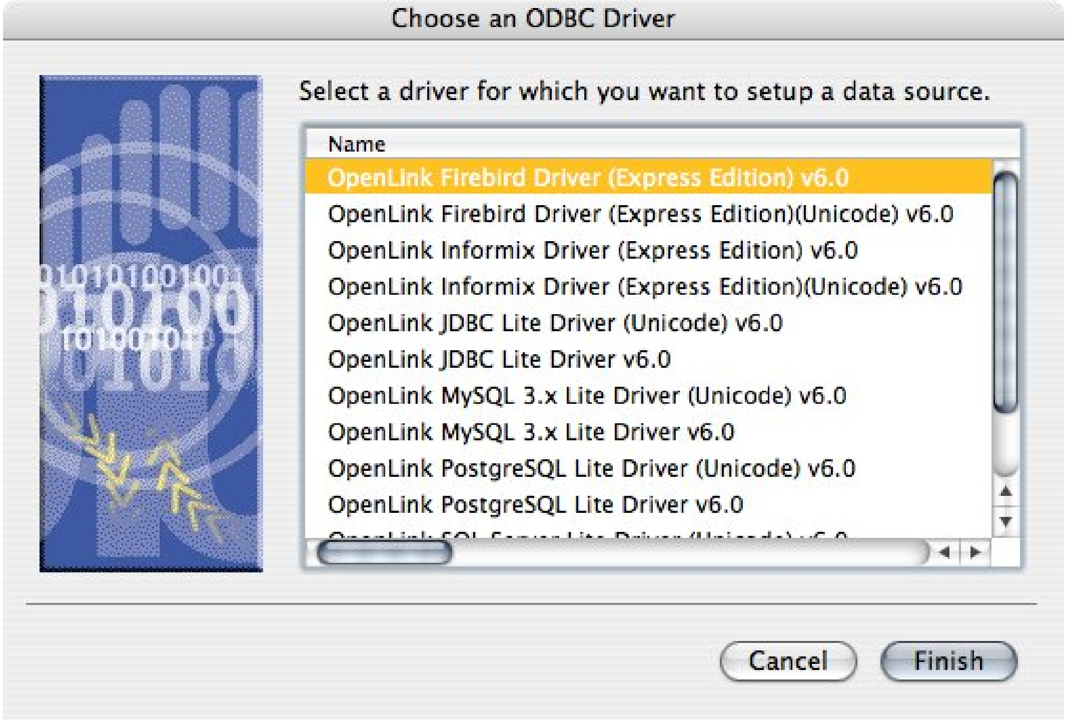


Name	Description	Driver

An ODBC User data source stores information about how to connect to the indicated data provider. A User data source is visible only to you.

Choose the OpenLink Firebird Driver (Express Edition) v6.0 from the list of available drivers:

Figure 4.17. ee-frb-16.png



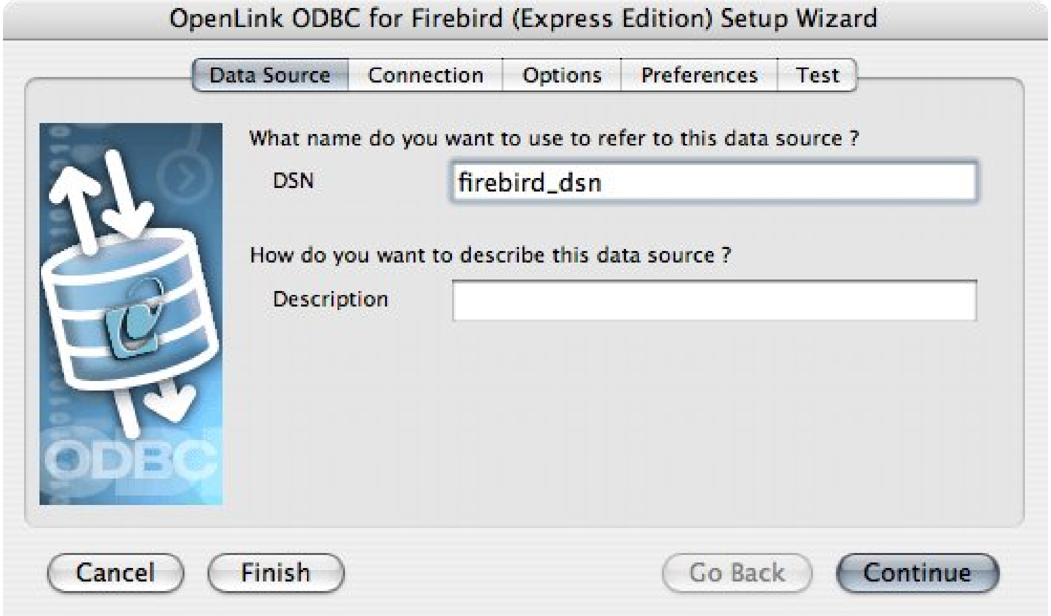
Choose an ODBC Driver

Select a driver for which you want to setup a data source.

Name
OpenLink Firebird Driver (Express Edition) v6.0
OpenLink Firebird Driver (Express Edition)(Unicode) v6.0
OpenLink Informix Driver (Express Edition) v6.0
OpenLink Informix Driver (Express Edition)(Unicode) v6.0
OpenLink JDBC Lite Driver (Unicode) v6.0
OpenLink JDBC Lite Driver v6.0
OpenLink MySQL 3.x Lite Driver (Unicode) v6.0
OpenLink MySQL 3.x Lite Driver v6.0
OpenLink PostgreSQL Lite Driver (Unicode) v6.0
OpenLink PostgreSQL Lite Driver v6.0

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 4.18. ee-frb-17.png



OpenLink ODBC for Firebird (Express Edition) Setup Wizard

What name do you want to use to refer to this data source ?

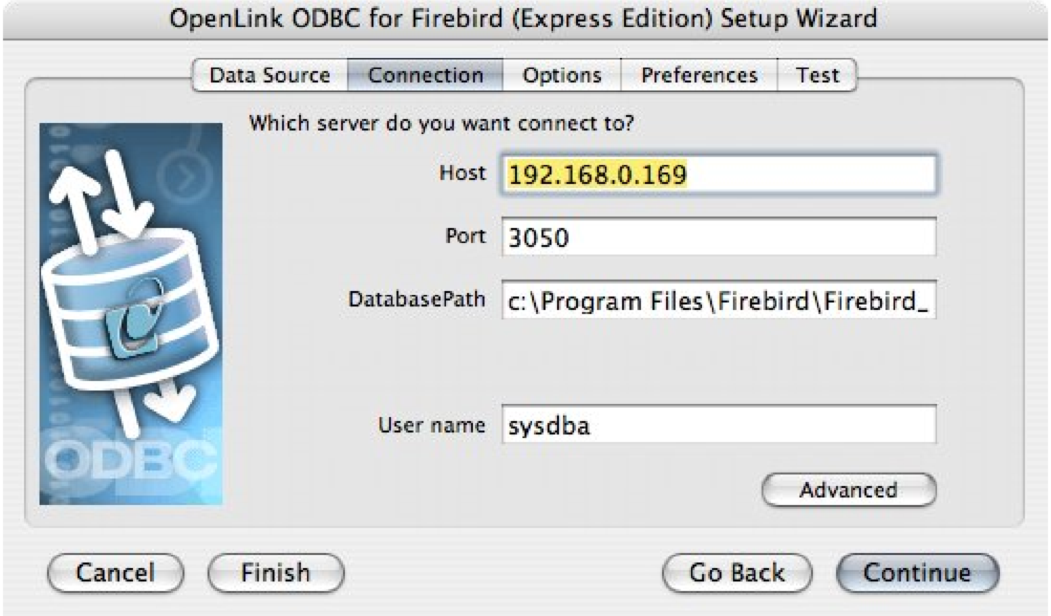
DSN: firebird_dsn

How do you want to describe this data source ?

Description:

The Connection Tab request the minimum paramters required to make a connection to the target database:

Figure 4.19. ee-frb-18.png



Which server do you want connect to?

Host 192.168.0.169

Port 3050

DatabasePath c:\Program Files\Firebird\Firebird_

User name sysdba

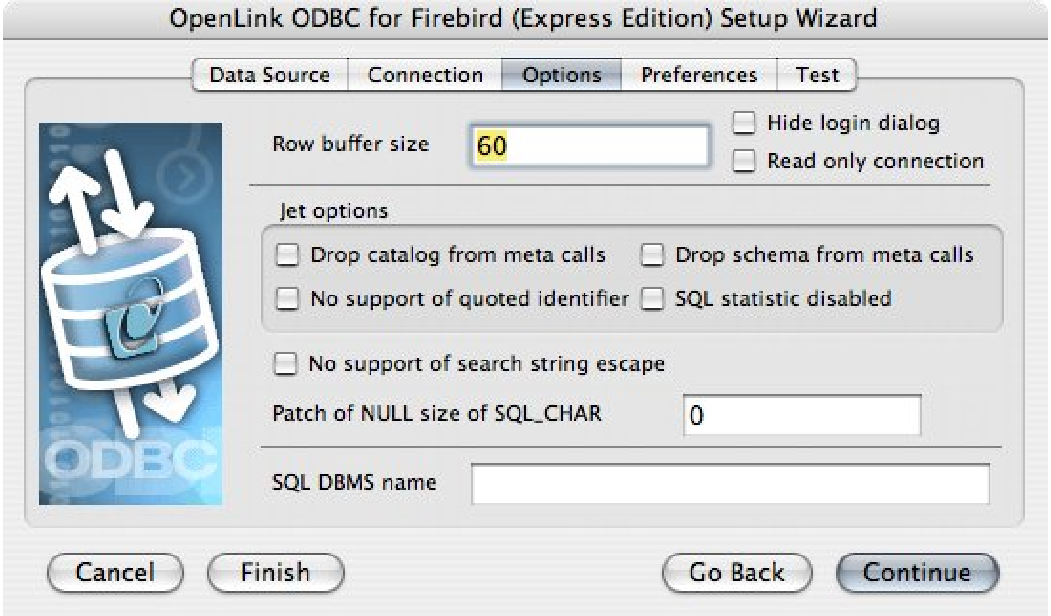
- Hostname - the hostname of the server on which Firebird is running
- PortName - the port on whcih the Firebird instance listens
- Database - the name of a valid database
- Username - the name of a valid Firebird user
- Advanced - additional optional configuration parameters:

Table 4.1.

BlobBufferLength	Set BLOB buffer length. This value influences the performance when working with BLOB fields.
BlobBufferSize	Size of the BLOB buffer in bytes.
BuffersNumber	Number of cache buffers that should be allocated for this connection, should be specified for ClassicServer instances; SuperServer has a server-wide configuration parameter.
DefaultIsolation	Set the default transaction isolation level as string. Following strings are allowed: 'TRANSACTION_READ_COMMITTED', 'TRANSACTION_REPEATABLE_READ', 'TRANSACTION_SERIALIZABLE'
Encoding	Set encoding for connections produced by this data source.
LoginTimeout	Set login timeout for this datasource in seconds.
RoleName	SQL role to use.
SocketBufferSize	The socket buffer-size in bytes.
SqlDialect	SQL dialect of the client.
TimestampUsesLocalTimezone	'true' if the JayBird 1.0 handling of the calendar in corresponding setters. This is also compatible with MySQL calendar treatment.
UseStandardUdf	'true' if driver should assume that standard UDFs are installed.
UseStreamBlobs	'true' if stream blobs should be created, otherwise 'false'
UseTranslation	Path to the character translation table.
CharSet	Character set for the connection. Similar to encoding property, but accepts Java names instead of Firebird ones.

As indiacted above the paramters of the options and preferences tabs are not required for a basic connection:

Figure 4.20. ee-frb-19.png



Row buffer size 60

□ Hide login dialog

□ Read only connection

Jet options

□ Drop catalog from meta calls □ Drop schema from meta calls

□ No support of quoted identifier □ SQL statistic disabled

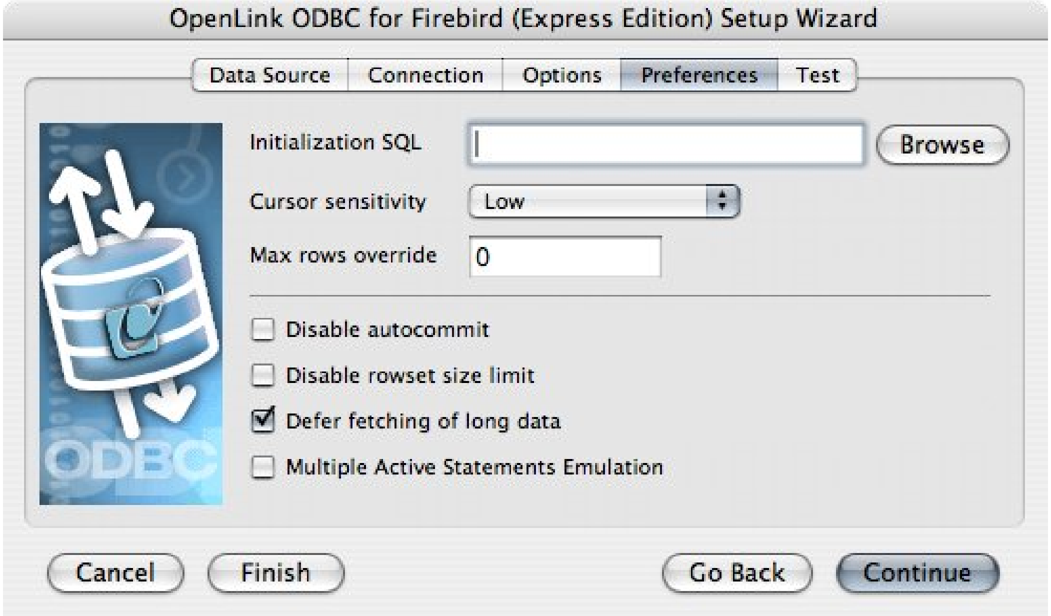
□ No support of search string escape

Patch of NULL size of SQL_CHAR 0

SQL DBMS name

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.
- *Hide Login Dialog* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.
- *Read Only connection* - Specify whether the connection is to be read-only. Make sure the checkbox is unchecked to request a read/write connection.
- *Drop Catalog from meta-calls* - Enable this option to have the catalog name not appear for tables, views and procedures when requesting database meta-data.
- *Drop Schema from meta calls* - Enable this option to have the schema-name not appear for tables, views and procedures when requesting database meta-data.
- *SQLStatistics disabled* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table (e.g. what indexes there are on it).
- *No support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if DBMS doesn't support quoted SQL like select * from "account"
- *No support of search string escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if DBMS doesn't support SQL escape patterns
- *Patch of NULL size of SQL_CHAR* - If set this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0 the driver uses the size returned by the database.
- *SQL_DBMS Name* - Manually override the SQLGetInfo(SQL_DBMS_NAME) response returned by the driver. This is know to be required for products like Microsoft InfoPath for which the return the value should be "SQL Server".

Figure 4.21. ee-frb-20.png



Initialization SQL

Cursor sensitivity: Low

Max rows override: 0

□ Disable autocommit

□ Disable rowset size limit

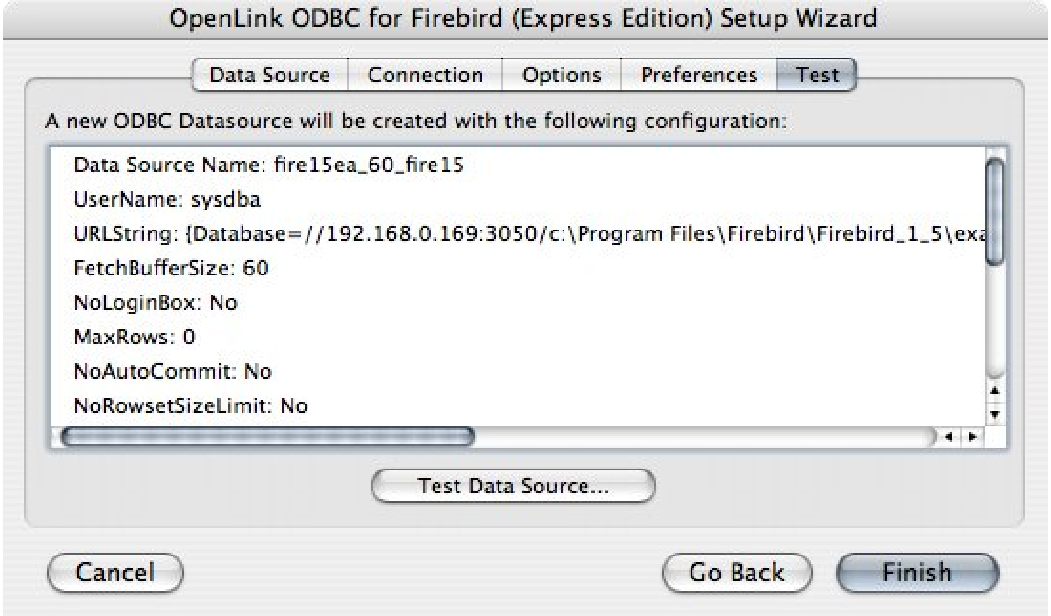
☑ Defer fetching of long data

□ Multiple Active Statements Emulation

- *Initialization SQL* - Lets you specify a file containing SQL statements that will be run against the database upon connection, automatically.
- *Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows don't appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate script for the target database.
- *MaxRows Override* - Allows you to define a limit on the maximum number of rows to returned from a query. The default value of 0 means no limit.
- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Lite Driver. The default mode is AutoCommit mode (box unchecked).
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset is generated from an erroneous query is very large. The limit is normally never reached.
- *Defer fetching of long data* - Defer fetching of LONG (BINARY, BLOB etc.) data unless explicitly requested in query. This provides significant performance increase when fields in query does not include LONG data fields.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Click on the 'Test Data Source' button to make a connection to the database to verify connectivity:

Figure 4.22. ee-frb-21.png

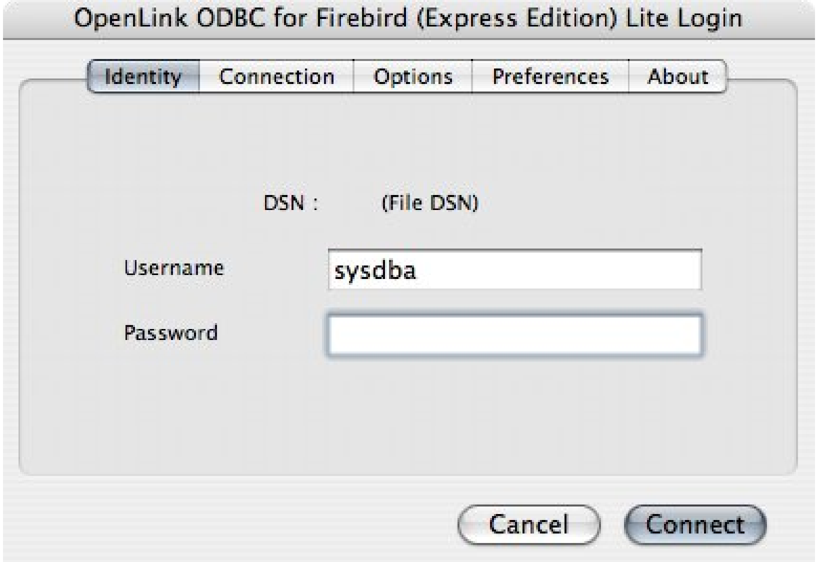


A new ODBC Datasource will be created with the following configuration:

Data Source Name: fire15ea_60_fire15
UserName: sysdba
URLString: {Database=//192.168.0.169:3050/c:\Program Files\Firebird\Firebird_1_5\exa
FetchBufferSize: 60
NoLoginBox: No
MaxRows: 0
NoAutoCommit: No
NoRowsetSizeLimit: No

Enter a vaild username and pasword for the database:

Figure 4.23. ee-frb-22.png



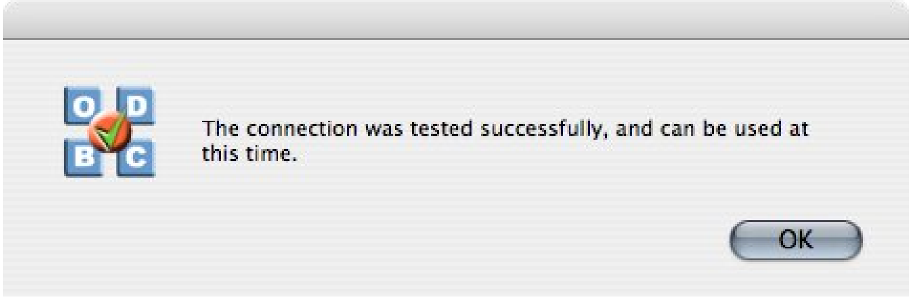
DSN : (File DSN)

Username sysdba

Password

A successful connection to the database has been made:

Figure 4.24. ee-frb-23.png



The connection was tested successfully, and can be used at this time.

5.2 OpenLink ODBC Driver for Firebird (Express Edition) for Windows

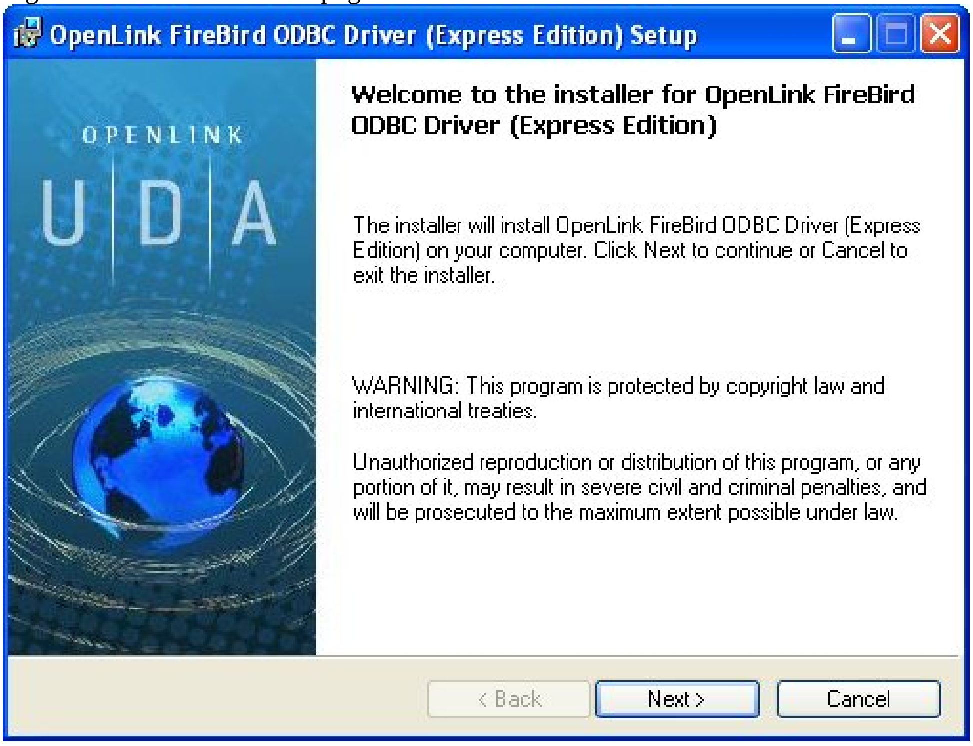
5.2.1 Installation

The OpenLink ODBCDriver for Firebird (Express Edition) is a distributed as a Windows MSI installer. Simply double click on the installer 'ntl6efrb.msi' to commence the installation:

Figure 4.25. EEWinfrbinst01.png

Installer Welcome Dialog for the OpenLink ODBCDriver for Firebird (Express Edition):

Figure 4.26. EEWinfrbinst02.png



Welcome to the installer for OpenLink FireBird ODBC Driver (Express Edition)

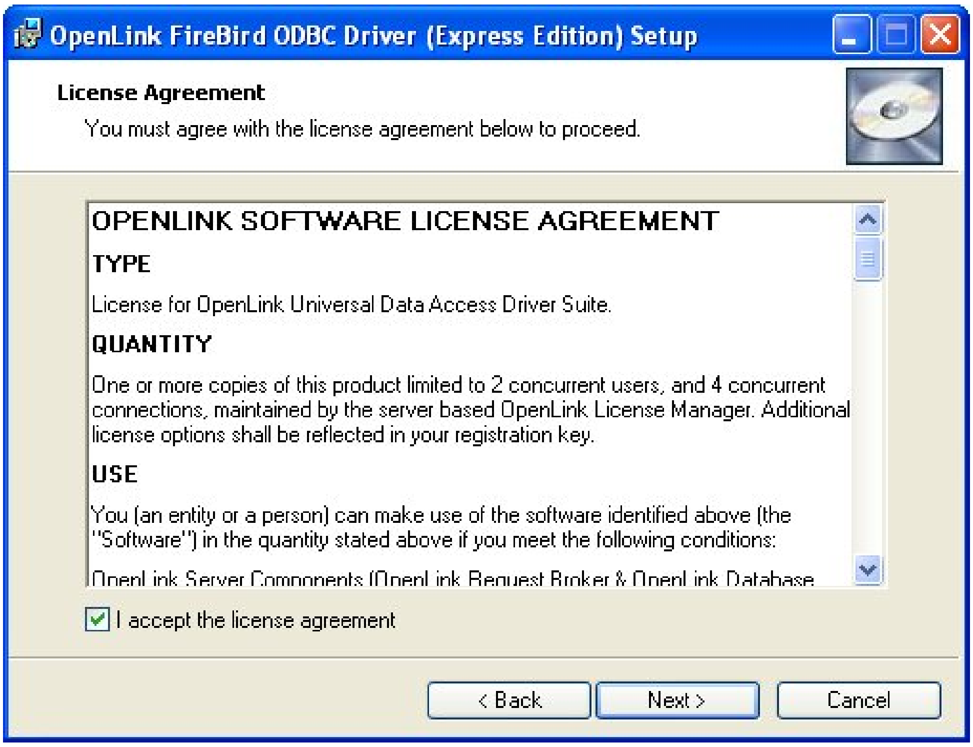
The installer will install OpenLink FireBird ODBC Driver (Express Edition) on your computer. Click Next to continue or Cancel to exit the installer.

WARNING: This program is protected by copyright law and international treaties.

Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.

Please read the software license agreement and accept before continuing your installation:

Figure 4.27. EEWinfrbinst03.png



OpenLink FireBird ODBC Driver (Express Edition) Setup

License Agreement

You must agree with the license agreement below to proceed.

OPENLINK SOFTWARE LICENSE AGREEMENT

TYPE

License for OpenLink Universal Data Access Driver Suite.

QUANTITY

One or more copies of this product limited to 2 concurrent users, and 4 concurrent connections, maintained by the server based OpenLink License Manager. Additional license options shall be reflected in your registration key.

USE

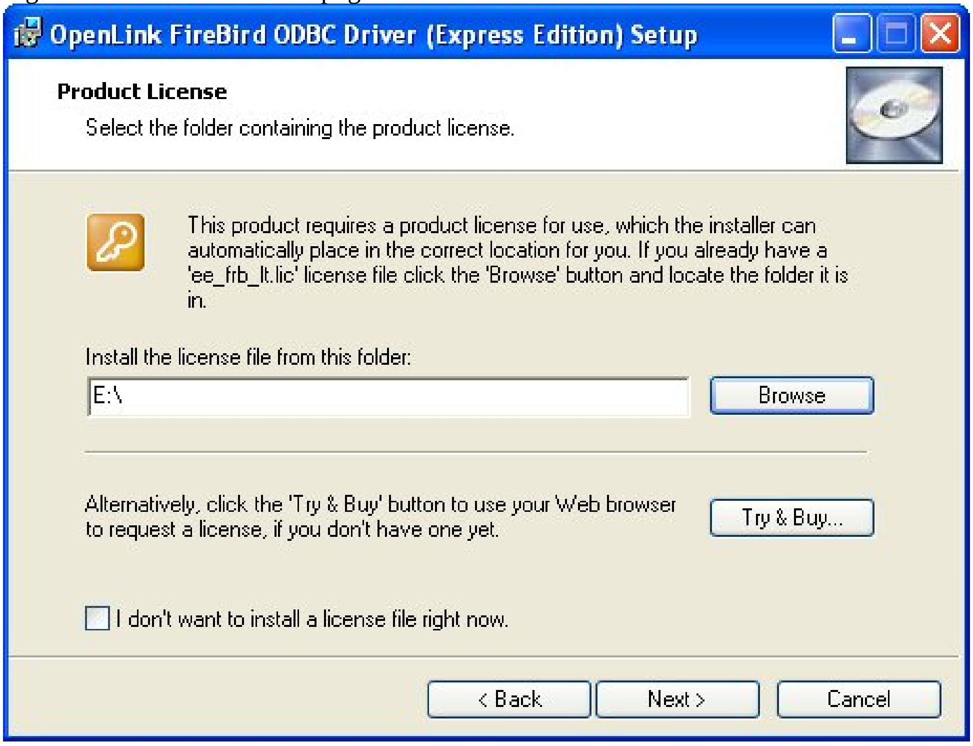
You (an entity or a person) can make use of the software identified above (the "Software") in the quantity stated above if you meet the following conditions:

OpenLink Server Components (OpenLink Request Broker & OpenLink Database

☑ I accept the license agreement

Before installation you will be prompted for a license file. If a license file already exists on the machine then select the 'use existing file' option. A trial (try) or full (buy) license can be obtain by selecting the 'try and buy' option which loads our online try and buy web page:

Figure 4.28. EEWinfrbinst04.png



OpenLink FireBird ODBC Driver (Express Edition) Setup

Product License

Select the folder containing the product license.

This product requires a product license for use, which the installer can automatically place in the correct location for you. If you already have a 'ee_frb_lt.lic' license file click the 'Browse' button and locate the folder it is in.

Install the license file from this folder:

E:\

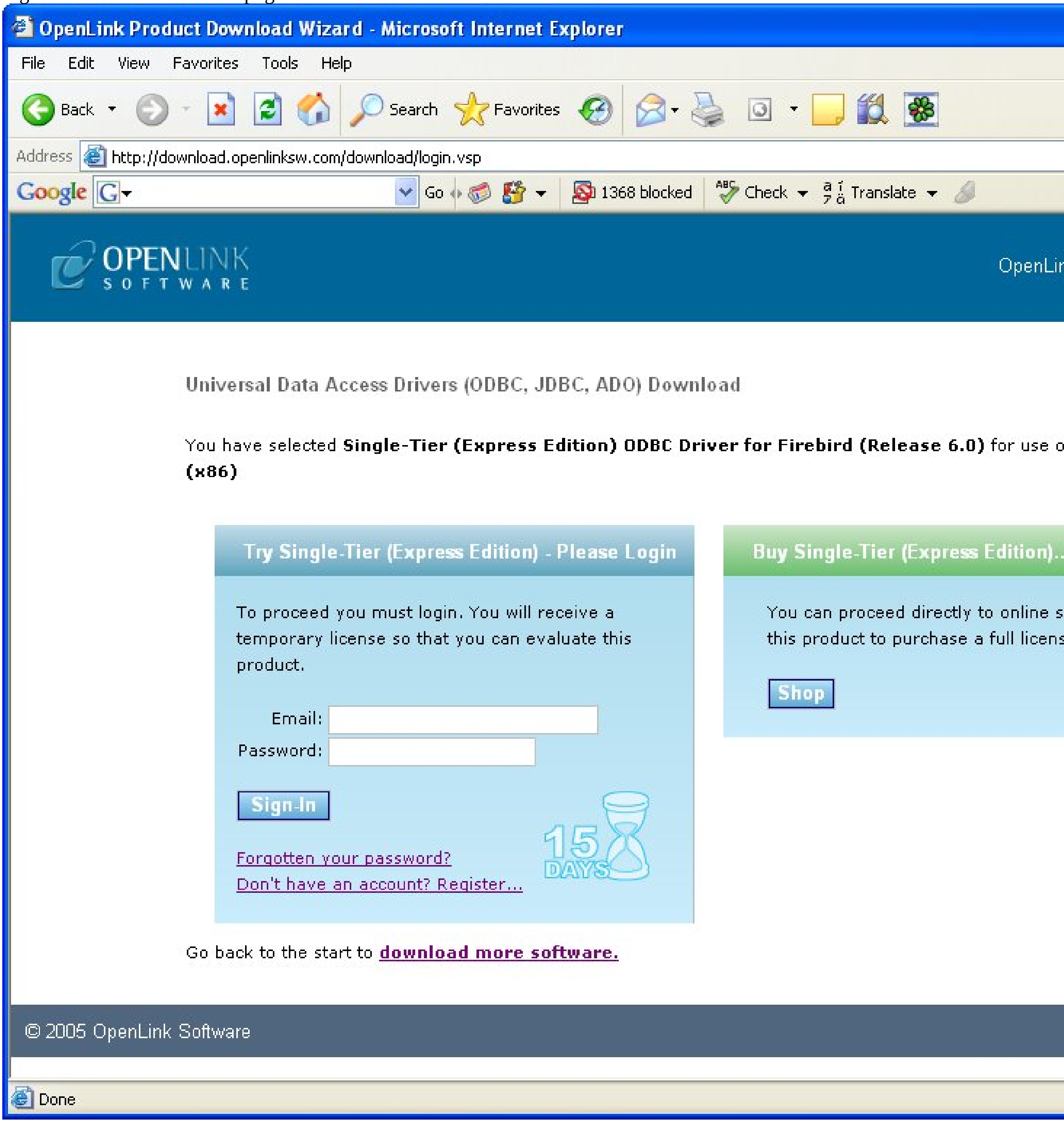
Alternatively, click the 'Try & Buy' button to use your Web browser to request a license, if you don't have one yet.

□ I don't want to install a license file right now.

To obtain the trial license you must be a registered user on the OpenLinkWeb site and login with the username (e-mail address) and password for that user. Click on the 'Shop' link to visit our online shop cart to purchases a full license if required:

Click on the 'download license' button to obtain the license file immediately and save to your desktop. Alternatively an auto e-mail will be sent to the registered users e-mail address with a link to their OpenLinkData Space (ODS) where all trial and full license files will be stored in the Briefcase for download at a later date.

Figure 4.29. EEWinfrbinst05.png



http://download.openlinksw.com/download/login.vsp

Universal Data Access Drivers (ODBC, JDBC, ADO) Download

You have selected **Single-Tier (Express Edition) ODBC Driver for Firebird (Release 6.0)** for use o **(x86)**

Try Single-Tier (Express Edition) - Please Login

To proceed you must login. You will receive a temporary license so that you can evaluate this product.

Email:

Password:

Forgotten your password?

Don't have an account? Register...

Buy Single-Tier (Express Edition)...

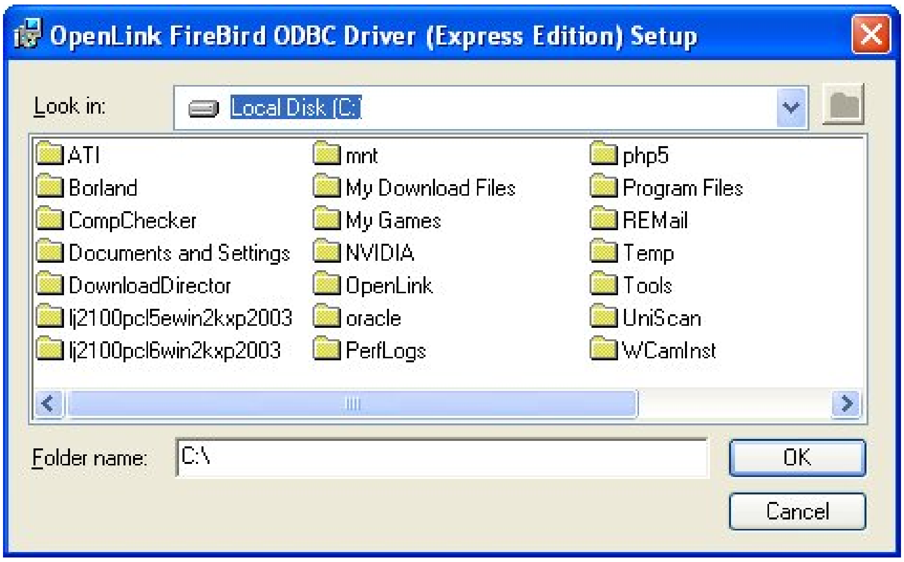
You can proceed directly to online s this product to purchase a full licens

Go back to the start to **download more software.**

© 2005 OpenLink Software

Select the license file to be used for the installation:

Figure 4.30. EEWinfrbinst06.png



OpenLink FireBird ODBC Driver (Express Edition) Setup

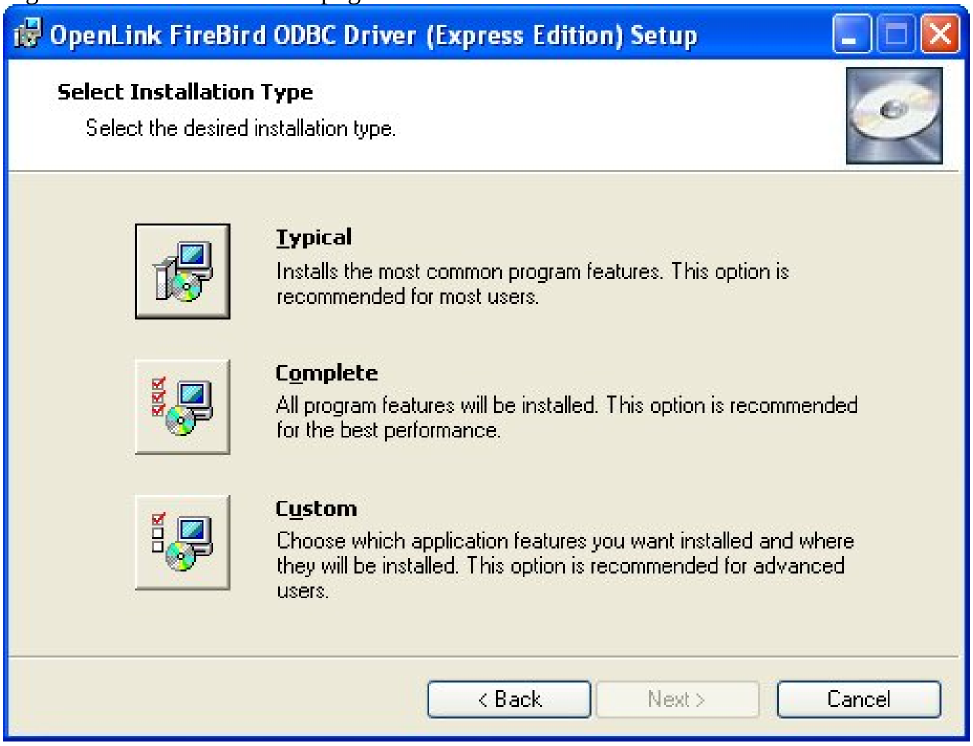
Look in: Local Disk (C:)

ATI, Borland, CompChecker, Documents and Settings, DownloadDirector, lj2100pcl5ewin2kxp2003, lj2100pcl6win2kxp2003, mnt, My Download Files, My Games, NVIDIA, OpenLink, oracle, PerfLogs, php5, Program Files, REMail, Temp, Tools, UniScan, WCamInst

Folder name: C:\

Choose to perform a custom, typical or complete installation of the driver:

Figure 4.31. EEWinfrbinst07.png



OpenLink FireBird ODBC Driver (Express Edition) Setup

Select Installation Type

Select the desired installation type.

Typical

Installs the most common program features. This option is recommended for most users.

Complete

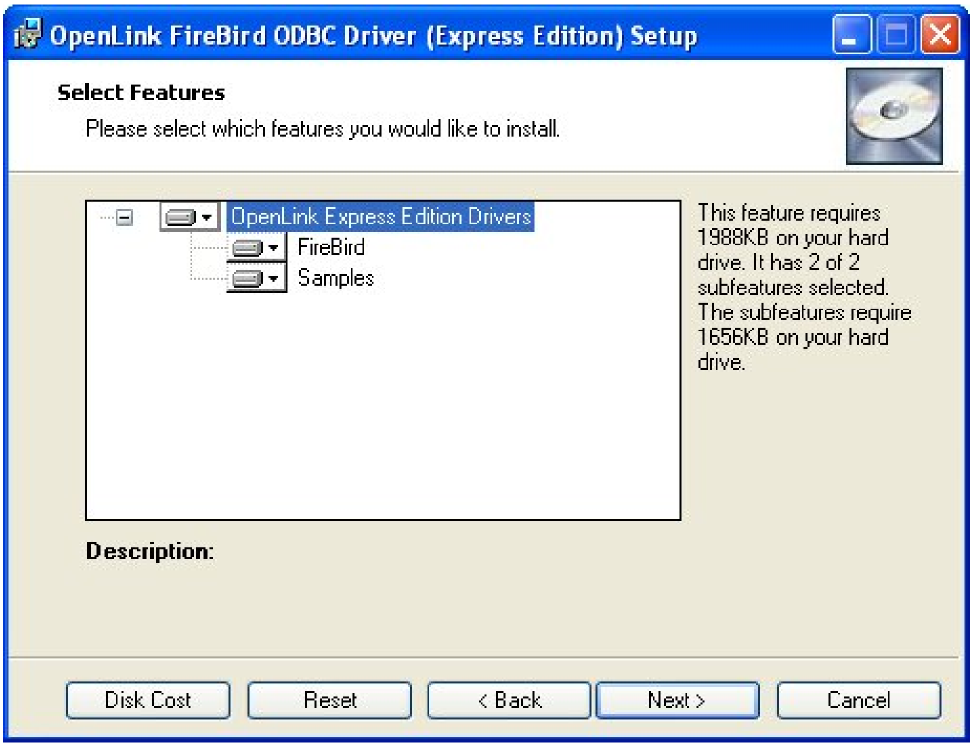
All program features will be installed. This option is recommended for the best performance.

Custom

Choose which application features you want installed and where they will be installed. This option is recommended for advanced users.

Select the features to be installed:

Figure 4.32. EEWinfrbinst09.png



OpenLink FireBird ODBC Driver (Express Edition) Setup

Select Features

Please select which features you would like to install.

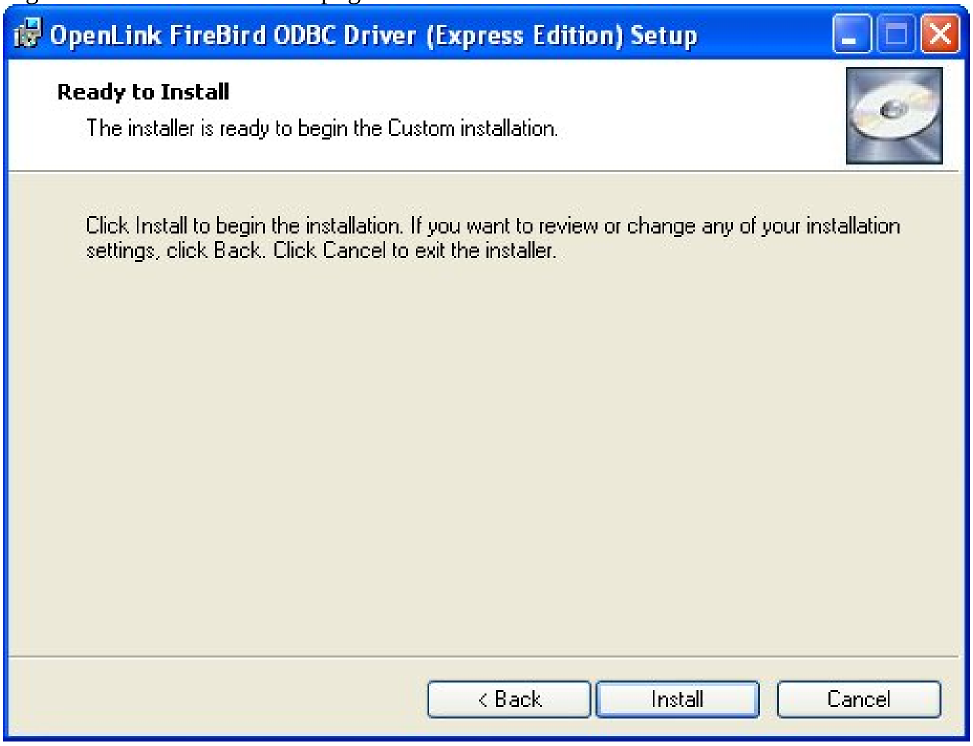
- OpenLink Express Edition Drivers
  - FireBird
  - Samples

This feature requires 1988KB on your hard drive. It has 2 of 2 subfeatures selected. The subfeatures require 1656KB on your hard drive.

Description:

Click the install button to begin the installation of components:

Figure 4.33. EEWinfrbinst10.png



OpenLink FireBird ODBC Driver (Express Edition) Setup

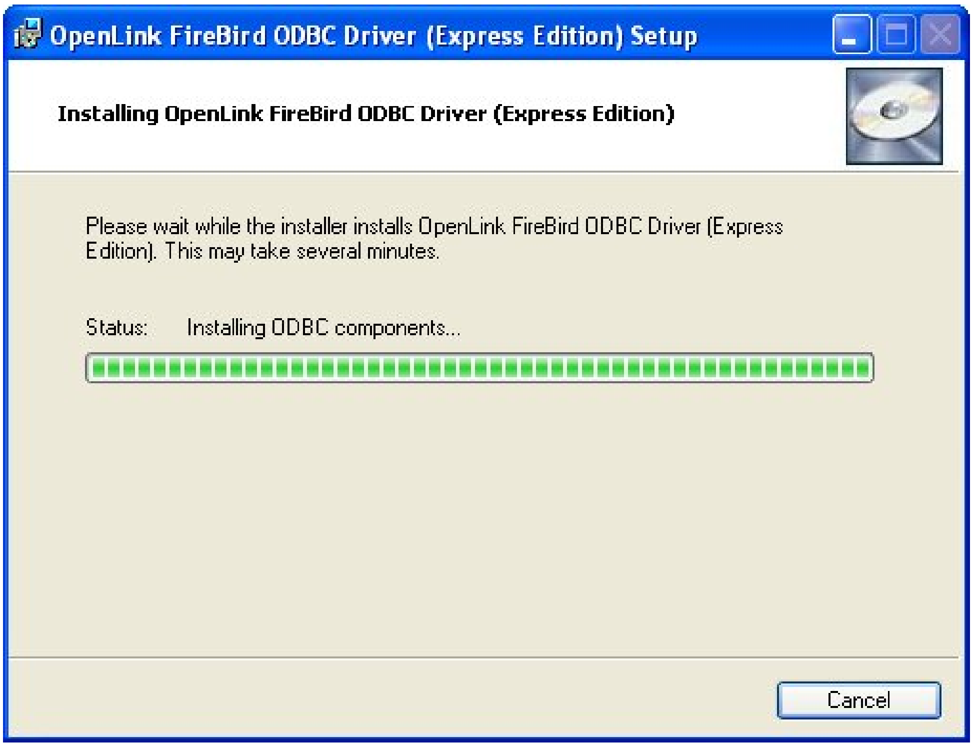
Ready to Install

The installer is ready to begin the Custom installation.

Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the installer.

Installation in progress:

Figure 4.34. EEWinfrbinst11.png



OpenLink FireBird ODBC Driver (Express Edition) Setup

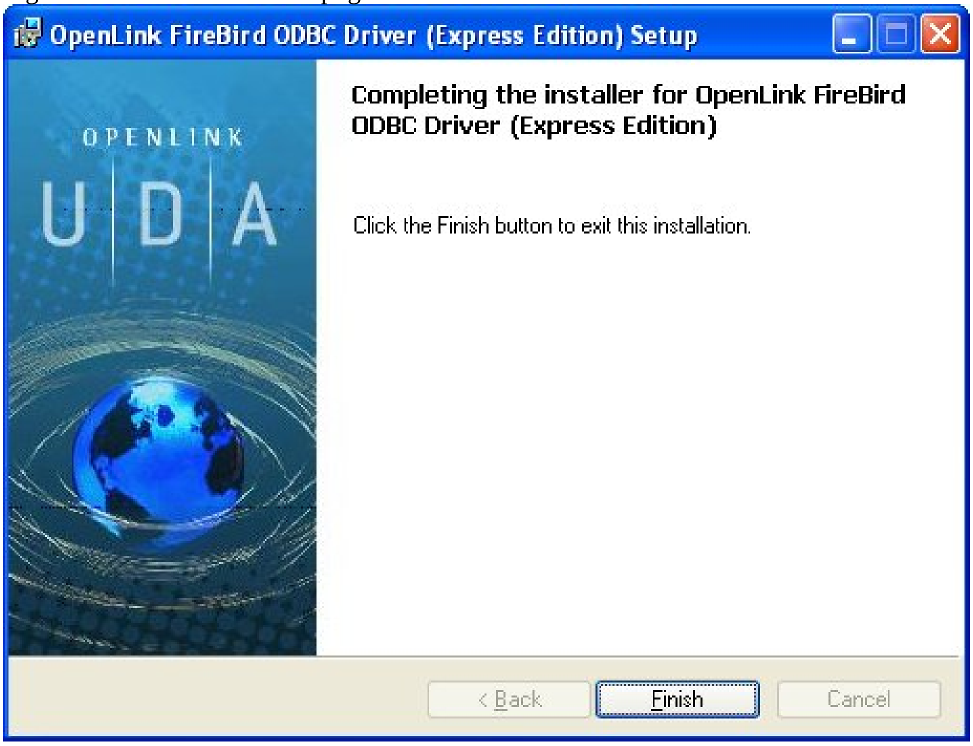
Installing OpenLink FireBird ODBC Driver (Express Edition)

Please wait while the installer installs OpenLink FireBird ODBC Driver (Express Edition). This may take several minutes.

Status: Installing ODBC components...

The Software installation is complete and ready for use:

Figure 4.35. EEWinfrbinst12.png



OpenLink FireBird ODBC Driver (Express Edition) Setup

Completing the installer for OpenLink FireBird ODBC Driver (Express Edition)

Click the Finish button to exit this installation.

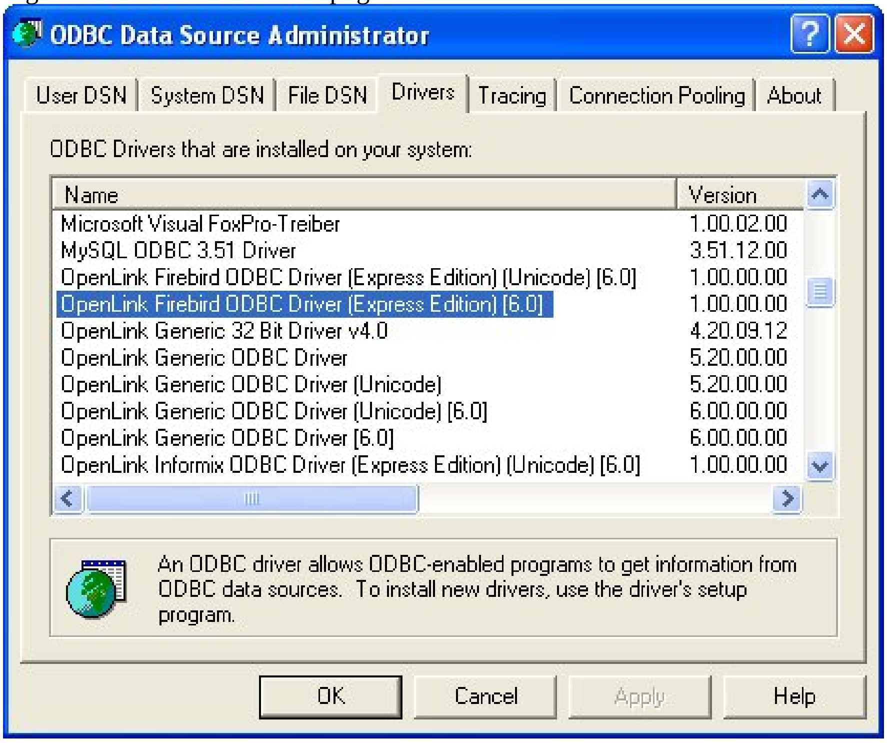
5.2.2 Configuration

To configure an ODBCDSN, run the ODBCAdministrator located in the Administrative Tools section of the Control Panel:

Figure 4.36. EEWinfrbconf01.png

Click on the drivers Tab to confirm the OpenLinkSQLServer ODBCDriver [Express Edition][6.0] has been successfully installed

Figure 4.37. EEWinfrbconf02.png



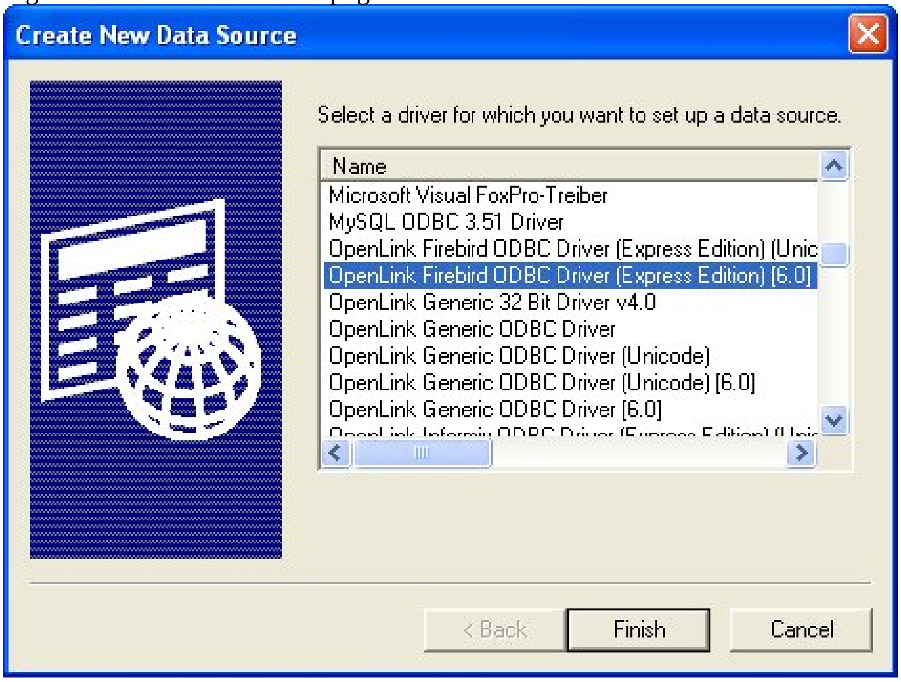
ODBC Drivers that are installed on your system:

Name	Version
Microsoft Visual FoxPro-Treiber	1.00.02.00
MySQL ODBC 3.51 Driver	3.51.12.00
OpenLink Firebird ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink Firebird ODBC Driver (Express Edition) [6.0]	1.00.00.00
OpenLink Generic 32 Bit Driver v4.0	4.20.09.12
OpenLink Generic ODBC Driver	5.20.00.00
OpenLink Generic ODBC Driver (Unicode)	5.20.00.00
OpenLink Generic ODBC Driver (Unicode) [6.0]	6.00.00.00
OpenLink Generic ODBC Driver [6.0]	6.00.00.00
OpenLink Informix ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00

An ODBC driver allows ODBC-enabled programs to get information from ODBC data sources. To install new drivers, use the driver's setup program.

From either the User or System DSN tabs click on the Add button and select the OpenLinkSQLServer ODBCDriver [Express Edition][6.0] from the list presented to create an ODBCDSN :

Figure 4.38. EEWinfrbconf03.png

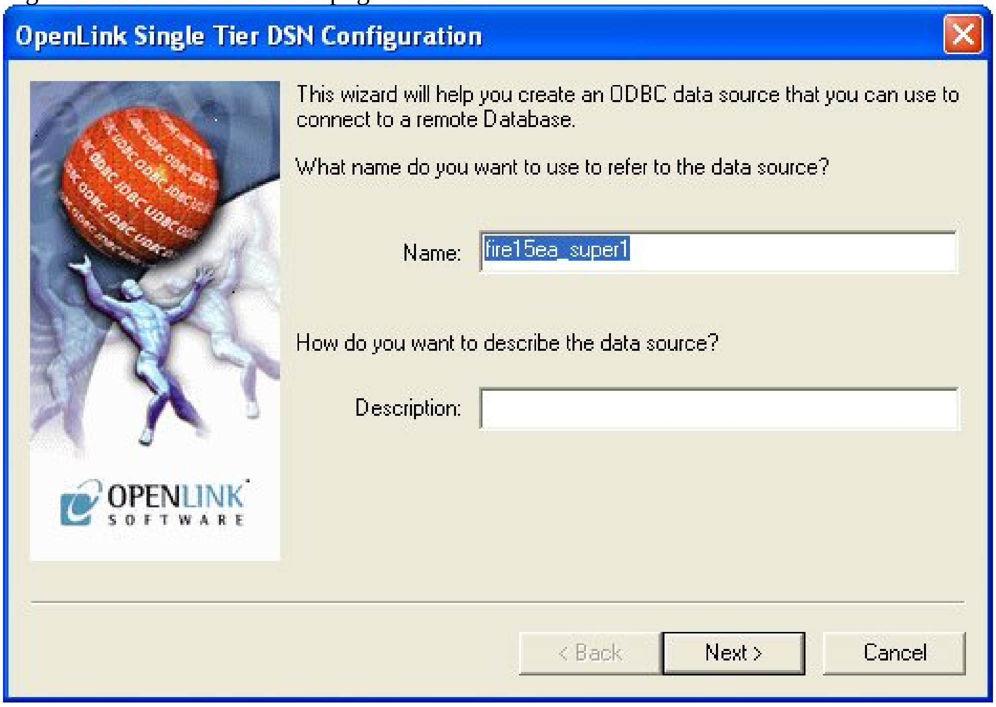


Select a driver for which you want to set up a data source.

Name
Microsoft Visual FoxPro-Treiber
MySQL ODBC 3.51 Driver
OpenLink Firebird ODBC Driver (Express Edition) (Unic
OpenLink Firebird ODBC Driver (Express Edition) [6.0]
OpenLink Generic 32 Bit Driver v4.0
OpenLink Generic ODBC Driver
OpenLink Generic ODBC Driver (Unicode)
OpenLink Generic ODBC Driver (Unicode) [6.0]
OpenLink Generic ODBC Driver [6.0]

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 4.39. EEWinfrbconf04.png



OpenLink Single Tier DSN Configuration

This wizard will help you create an ODBC data source that you can use to connect to a remote Database.

What name do you want to use to refer to the data source?

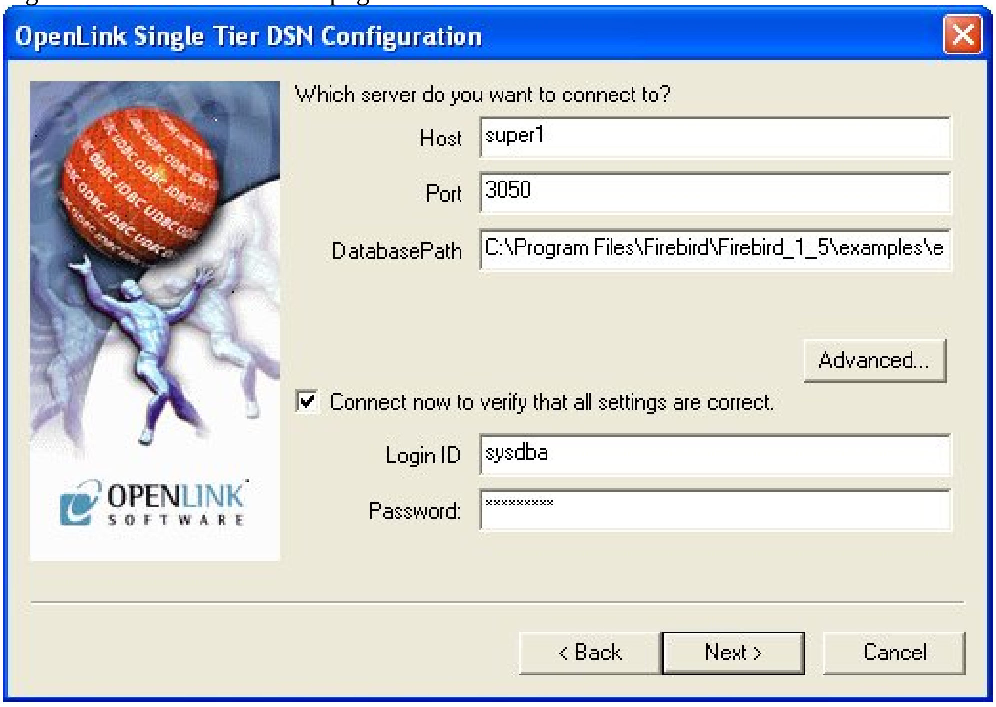
Name: fire15ea_super1

How do you want to describe the data source?

Description:

The Connection Tab request the minimum parameters required to make a connection to the target database:

Figure 4.40. EEWinfrbconf05.png



OpenLink Single Tier DSN Configuration

Which server do you want to connect to?

Host super1

Port 3050

DatabasePath C:\Program Files\Firebird\Firebird_1_5\examples\e

☑ Connect now to verify that all settings are correct.

Login ID sysdba

Password: *********

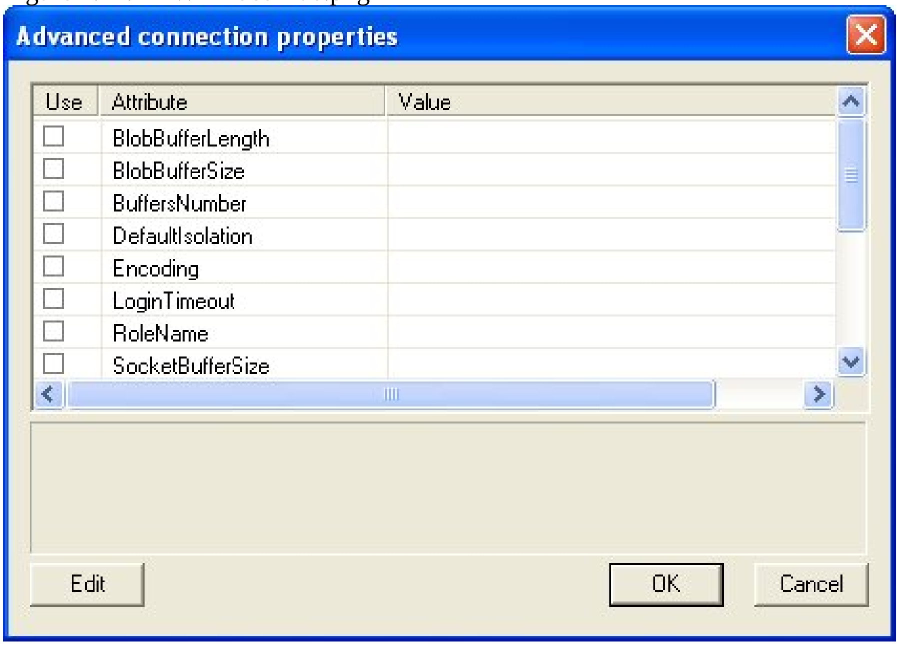
- *Host* : This is the fully qualified hostname, or IP address, of the machine hosting the DBMS you wish to access, e.g., dbms-server.example.com, or 192.168.155.123. Any hostname which will be resolved by your local DNS is acceptable.
- *Port* : This is the port that Firebird is listening on
- *DatabasePath* : This is the path and filename of the database file (.fdb) you want to connect to

- *Login ID* : This is a valid user on for the Firebird Database

- *Password* : Enter valid password and click next to verify that all settings are correct or uncheck check box to delay this to a later stage.

The advanced button displays additional optional parameters that can be configured:

Figure 4.41. EEWinfrbconf06.png



Advanced connection properties

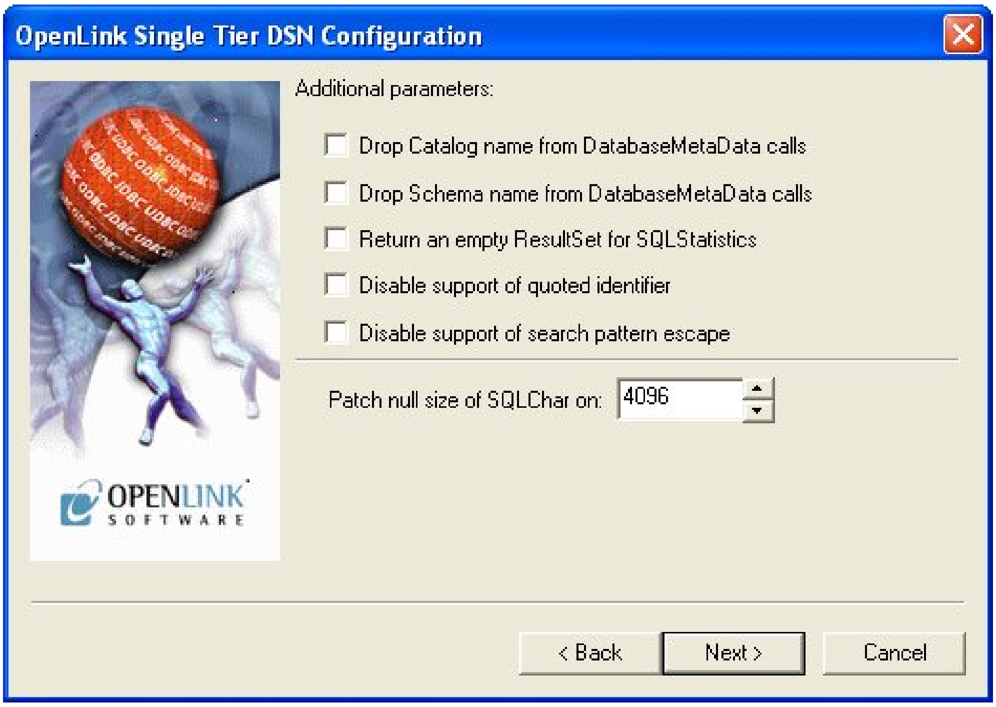
Use	Attribute	Value
□	BlobBufferLength	
□	BlobBufferSize	
□	BuffersNumber	
□	DefaultIsolation	
□	Encoding	
□	LoginTimeout	
□	RoleName	
□	SocketBufferSize	

Table 4.2.

BlobBufferLength	Set BLOB buffer length. This value influences the performance when working with BLOB fields.
BlobBufferSize	Size of the BLOB buffer in bytes.
BuffersNumber	Number of cache buffers that should be allocated for this connection, should be specified for ClassicServer instances, SuperServer has a server-wide configuration parameter.
DefaultIsolation	Set the default transaction isolation level as string. Following strings are allowed: 'TRANSACTION_READ_COMMITTED', 'TRANSACTION_REPEATABLE_READ', 'TRANSACTION_SERIALIZABLE'
Encoding	Set encoding for connections produced by this data source.
LoginTimeout	Set login timeout for this datasource in seconds.
RoleName	SQL role to use.
SocketBufferSize	Socket buffer size in bytes.
SqlDialect	SQL dialect of the client.
TimestampUsesLocalTimezone	'true' if the JayBird 1.0 handling of the calendar in corresponding setters. This is also compatible with MySQL calendar treatment.
UseStandardUdf	'true' if driver should assume that standard UDF are installed.
UseStreamBlobs	'true' if stream blobs should be created, otherwise 'false'
UseTranslation	Path to the character translation table.
CharSet	Character set for the connection. Similar to encoding property, but accepts Java names instead of Firebird ones.

As indicated above the paramters of the options and preferences tabs are not required for a basic connection.

Figure 4.42. EEWinfrbconf07.png



OpenLink Single Tier DSN Configuration

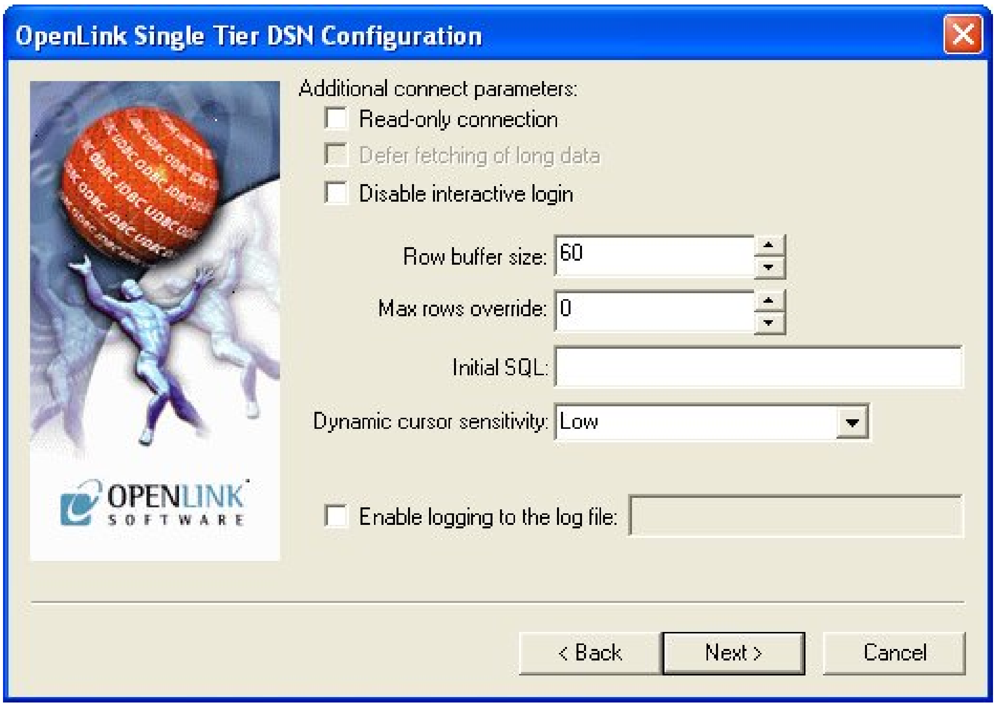
Additional parameters:

- □ Drop Catalog name from DatabaseMetaData calls
- □ Drop Schema name from DatabaseMetaData calls
- □ Return an empty ResultSet for SQLStatistics
- □ Disable support of quoted identifier
- □ Disable support of search pattern escape

Patch null size of SQLChar on: 4096

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.
- *Hide Login Dialog* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.
- *Read Only connection* - Specify whether the connection is to be "Read-only". Make sure the checkbox is unchecked to request a "Read/Write" connection.
- *Drop Catalog from Meta calls* - Enable this option to have the catalog name not appear for tables, views and procedures when requesting database meta-data.
- *Drop Schema from Meta calls* - Enable this option to have the schema-name not appear for tables, views and procedures when requesting database meta-data.
- *SQLStatistics disabled* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table (e.g. what indexes there are on it).
- *No support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if DBMS doesn't support quoted SQL like select * from "account"
- *No support of search string escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if DBMS doesn't support SQL escape patterns
- *Patch of NULL size of SQL_CHAR* - If set this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0 the driver uses the size returned by the database.
- *SQL_DBMS Name* - Manually override the SQLGetInfo(SQL_DBMS_NAME) response returned by the driver. This is know to be required for products like Microsoft InfoPath for which the return the value should be "SQL Server".

Figure 4.43. EEWinfrbconf08.png



OpenLink Single Tier DSN Configuration

Additional connect parameters:

□ Read-only connection

□ Defer fetching of long data

□ Disable interactive login

Row buffer size: 60

Max rows override: 0

Initial SQL:

Dynamic cursor sensitivity: Low

□ Enable logging to the log file:

- *Initialization SQL* - Lets you specify a file containing SQL statements that will be run against the database upon connection, automatically.

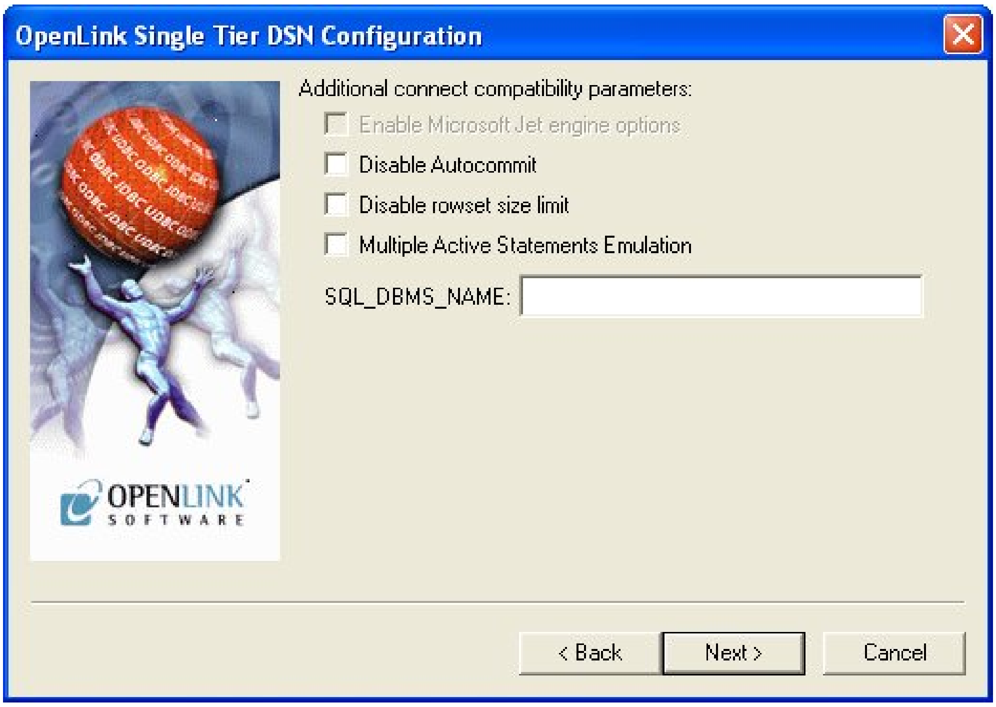
- *Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows don't appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate script for the target database.

- *MaxRows Override* - Allows you to define a limit on the maximum number of rows to returned from a query. The default value of 0 means no limit.

- *Defer fetching of long data* - Defer fetching of LONG (BINARY, BLOB etc.) data unless explicitly requested in query. This provides significant performance increase when fields in query does not include LONG data fields.

- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Figure 4.44. EEWinfrbconf09.png



Additional connect compatibility parameters:

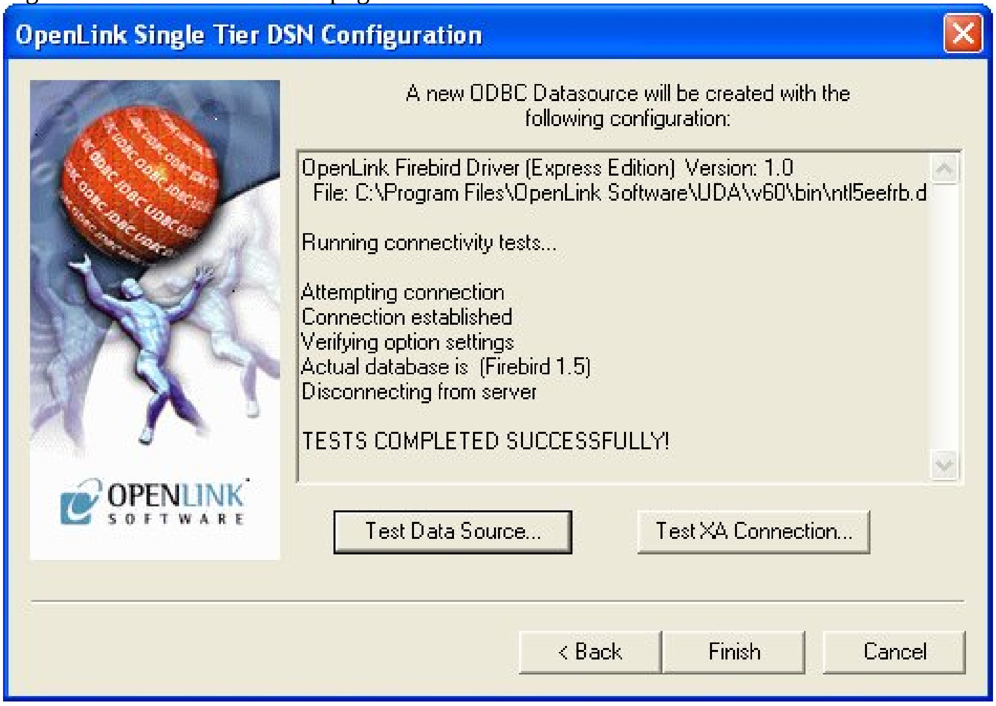
- □ Enable Microsoft Jet engine options
- □ Disable Autocommit
- □ Disable rowset size limit
- □ Multiple Active Statements Emulation

SQL_DBMS_NAME:

- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Lite Driver. The default mode is AutoCommit mode (box unchecked).
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset is generated from an erroneous query is very large. The limit is normally never reached.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Click on the *Test Data Source*button to verify successful connection can be made to the database.

Figure 4.45. EEWinfrbconf10.png



A new ODBC Datasource will be created with the following configuration:

```
OpenLink Firebird Driver (Express Edition)  Version: 1.0
  File: C:\Program Files\OpenLink Software\UDA\v60\bin\ntl5eefrb.d

Running connectivity tests...

Attempting connection
Connection established
Verifying option settings
Actual database is  (Firebird 1.5)
Disconnecting from server

TESTS COMPLETED SUCCESSFULLY!
```

6 Chapter 5. OpenLink ODBC Driver for Informix (Express Edition)

Table of Contents

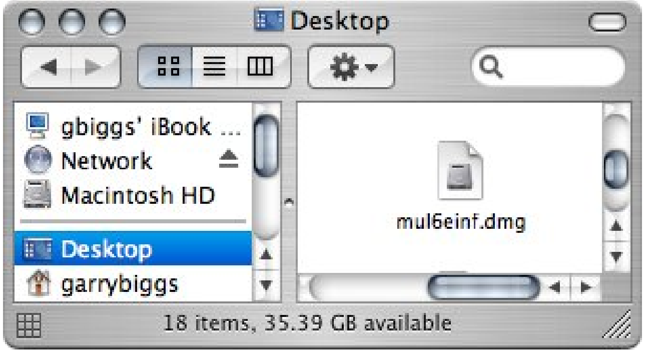
- OpenLink ODBC Driver for Informix (Express Edition) for Mac OS X
    - Installation Guide
    - Configuration
- OpenLink ODBC Driver for Informix (Express Edition) for Windows
    - Installation
    - Configuration

6.1 OpenLink ODBC Driver for Informix (Express Edition) for Mac OS X

6.1.1 Installation Guide

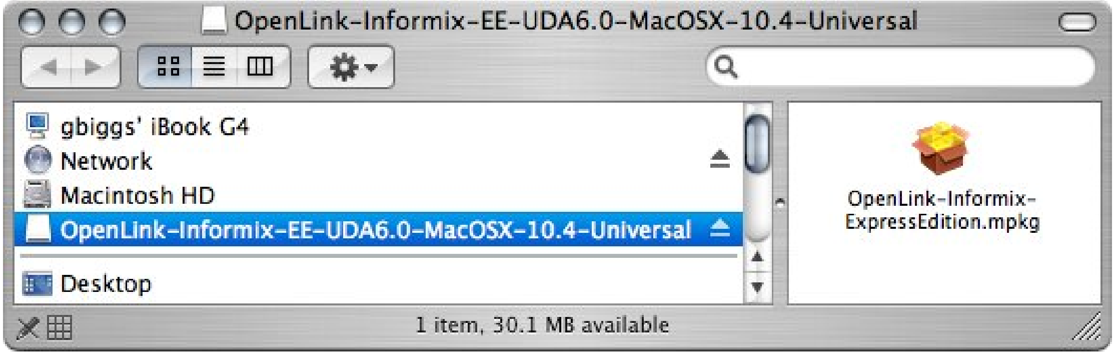
The OpenLink ODBC Driver for Informix (Express Edition) is distributed as a Disk image (DMG) file. Simply double click on the disk image 'mul6efrb.dmg' to extract the installer mpkg file:

Figure 5.1. ee-inf-00.png



Double-click on the mpkg file to run the installer and following the on screen instriuction as indicated below to complete the installation:

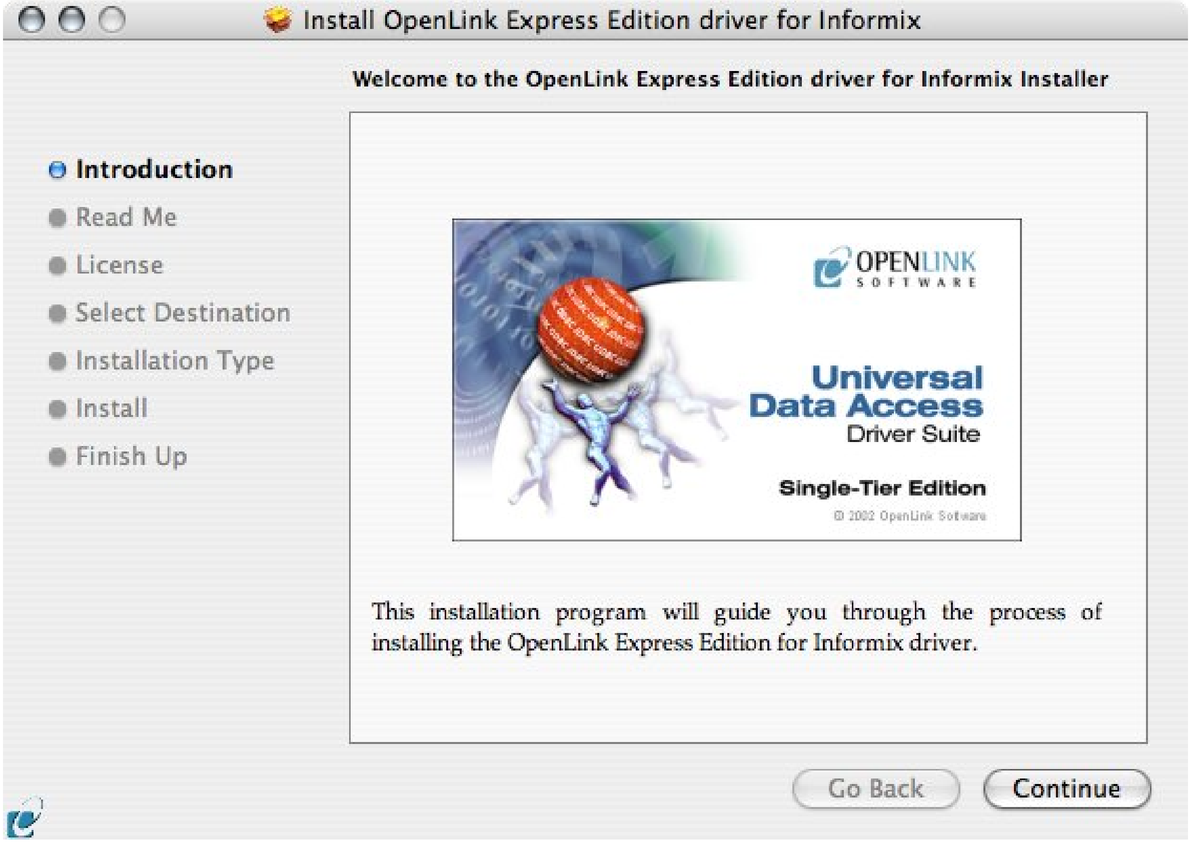
Figure 5.2. ee-inf-01.png



OpenLink-Informix-EE-UDA6.0-MacOSX-10.4-Universal
gbiggs' iBook G4
Network
Macintosh HD
OpenLink-Informix-EE-UDA6.0-MacOSX-10.4-Universal
Desktop
OpenLink-Informix-ExpressEdition.mpkg
1 item, 30.1 MB available

Installer Welcome Dialog for the OpenLink ODBC Driver for Informix (Express Edition):

Figure 5.3. ee-inf-02.png

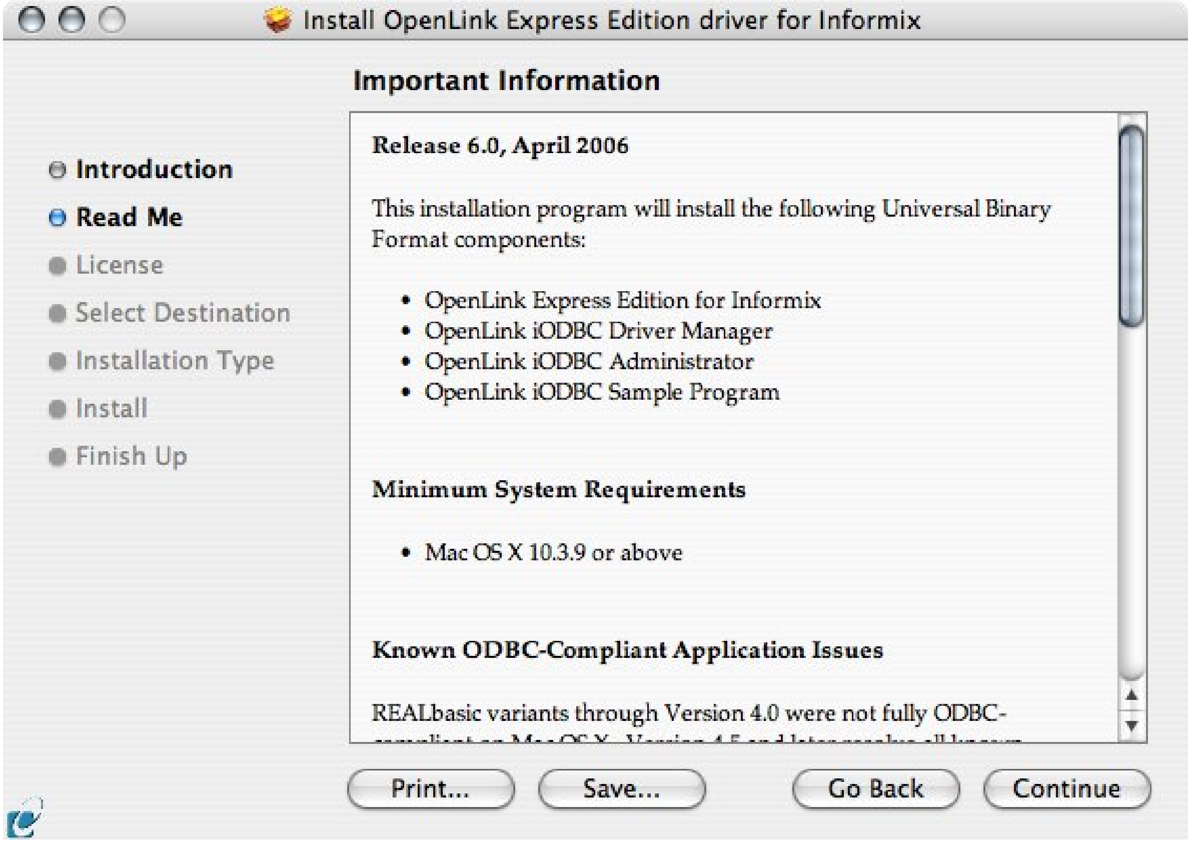


Welcome to the OpenLink Express Edition driver for Informix Installer

This installation program will guide you through the process of installing the OpenLink Express Edition for Informix driver.

Please review the readme file for installation requirements and known issues:

Figure 5.4. ee-inf-03.png



Important Information

Release 6.0, April 2006

This installation program will install the following Universal Binary Format components:

- OpenLink Express Edition for Informix
- OpenLink iODBC Driver Manager
- OpenLink iODBC Administrator
- OpenLink iODBC Sample Program

Minimum System Requirements

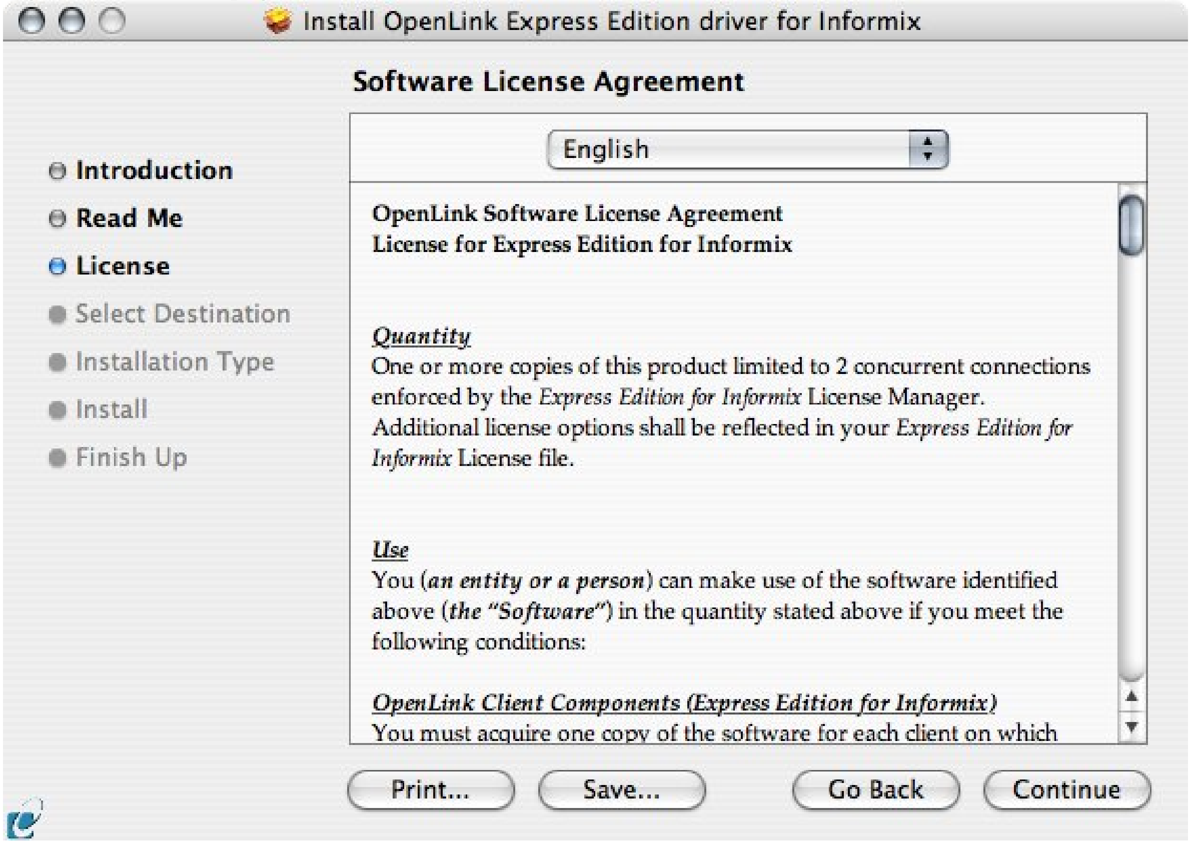
- Mac OS X 10.3.9 or above

Known ODBC-Compliant Application Issues

REALbasic variants through Version 4.0 were not fully ODBC-

Please read the software license agreement before continuing your installation:

Figure 5.5. ee-inf-04.png



Software License Agreement

OpenLink Software License Agreement
License for Express Edition for Informix

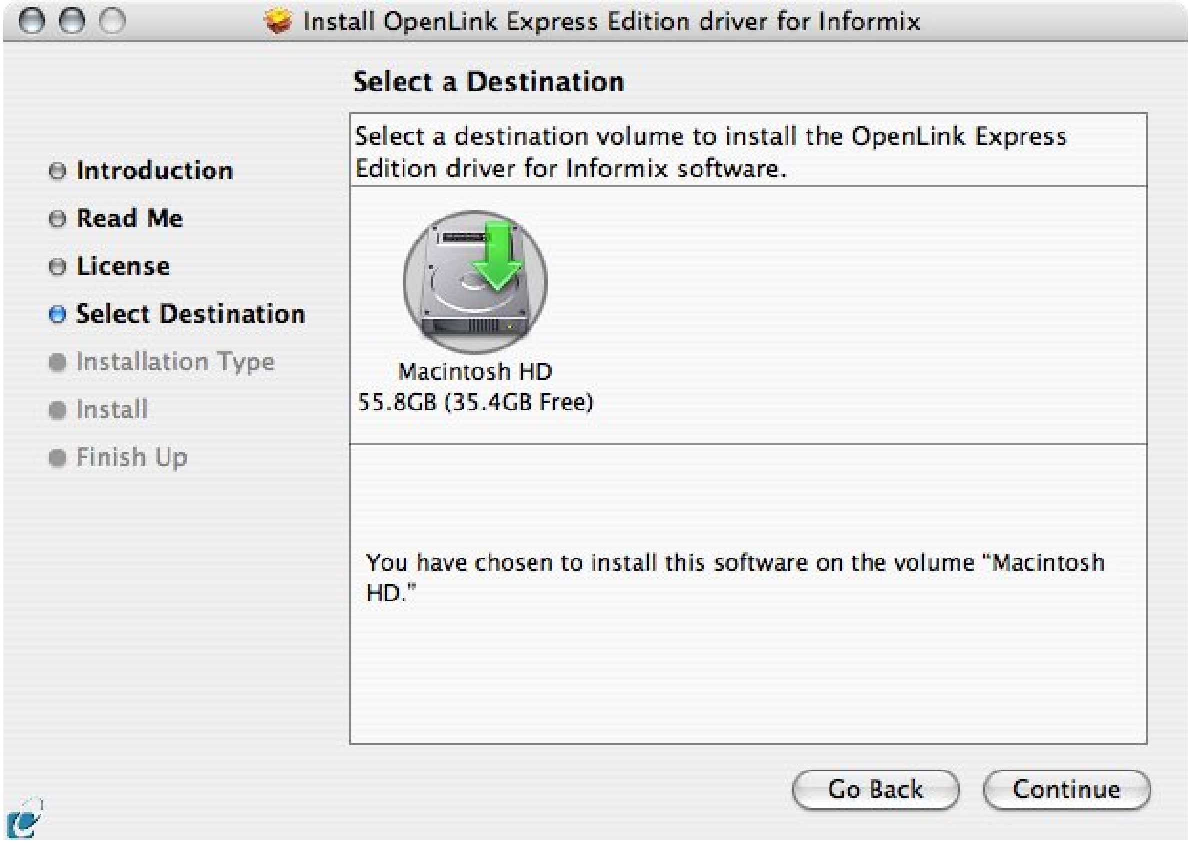
Quantity
One or more copies of this product limited to 2 concurrent connections enforced by the *Express Edition for Informix* License Manager. Additional license options shall be reflected in your *Express Edition for Informix* License file.

Use
You (***an entity or a person***) can make use of the software identified above (***the "Software"***) in the quantity stated above if you meet the following conditions:

OpenLink Client Components (Express Edition for Informix)
You must acquire one copy of the software for each client on which

Select destination volume for driver installation:

Figure 5.6. ee-inf-05.png



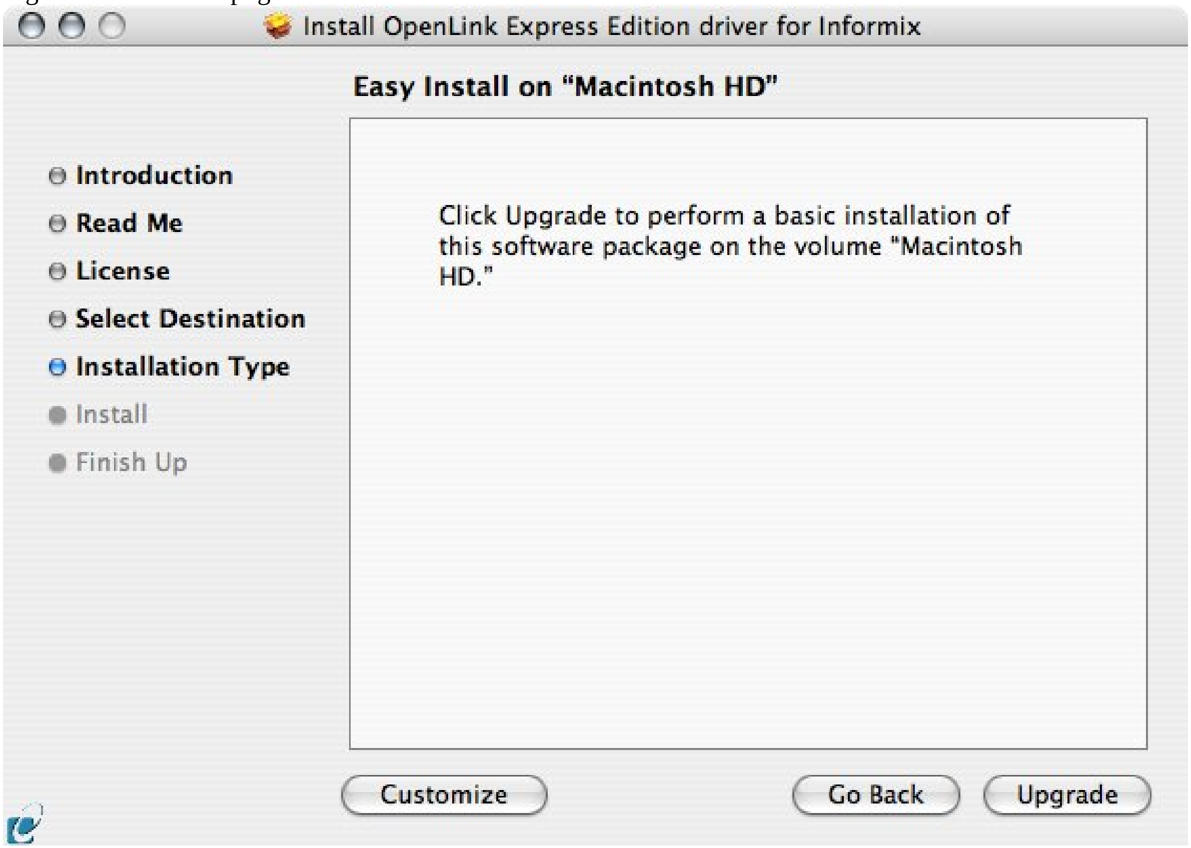
Select a Destination

Select a destination volume to install the OpenLink Express Edition driver for Informix software.

You have chosen to install this software on the volume "Macintosh HD."

Choose to perform a custome or default installation of the driver:

Figure 5.7. ee-inf-06.png

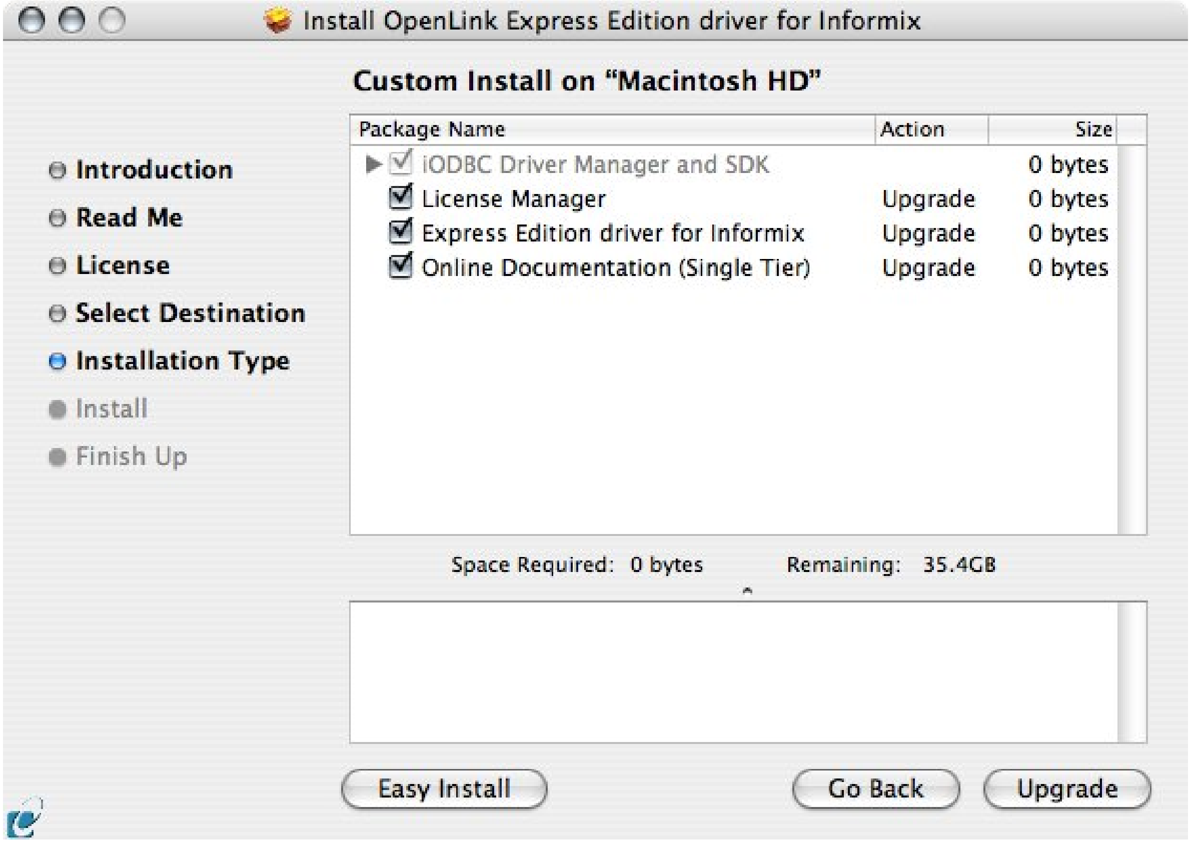


Easy Install on "Macintosh HD"

Click Upgrade to perform a basic installation of this software package on the volume "Macintosh HD."

If you chose the custom option select which of the components below are to be installed:

Figure 5.8. ee-inf-07.png



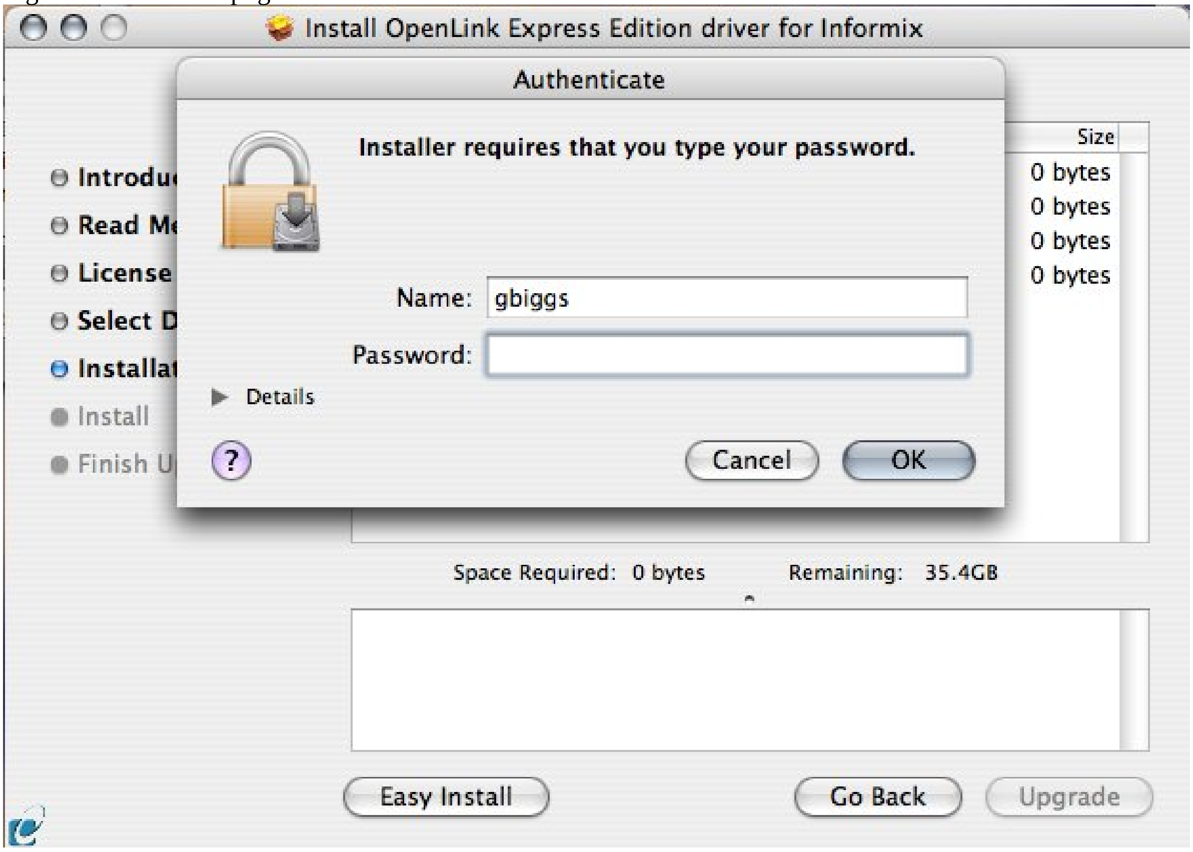
Custom Install on "Macintosh HD"

Package Name	Action	Size
▶ ☑ iODBC Driver Manager and SDK		0 bytes
☑ License Manager	Upgrade	0 bytes
☑ Express Edition driver for Informix	Upgrade	0 bytes
☑ Online Documentation (Single Tier)	Upgrade	0 bytes

Space Required: 0 bytes Remaining: 35.4GB

The Software must be installed as a user with Administrative privileges on the machine:

Figure 5.9. ee-inf-08.png



Install OpenLink Express Edition driver for Informix

Authenticate

Installer requires that you type your password.

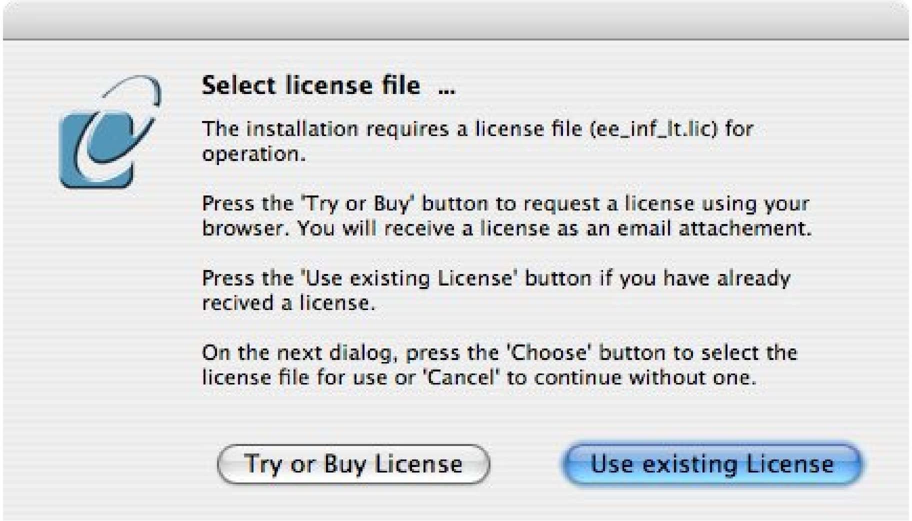
Name: gbiggs

Password:

Space Required: 0 bytes Remaining: 35.4GB

After the driver has been installed you will be prompted for a license file. If a license file already exists on the machine then select the 'use exisiting file' option. A trial (try) or full (buy) license can be obtain by selecting the 'try and buy' option which loads our online try and buy web page:

Figure 5.10. ee-inf-09.png



Select license file ...

The installation requires a license file (ee_inf_lt.lic) for operation.

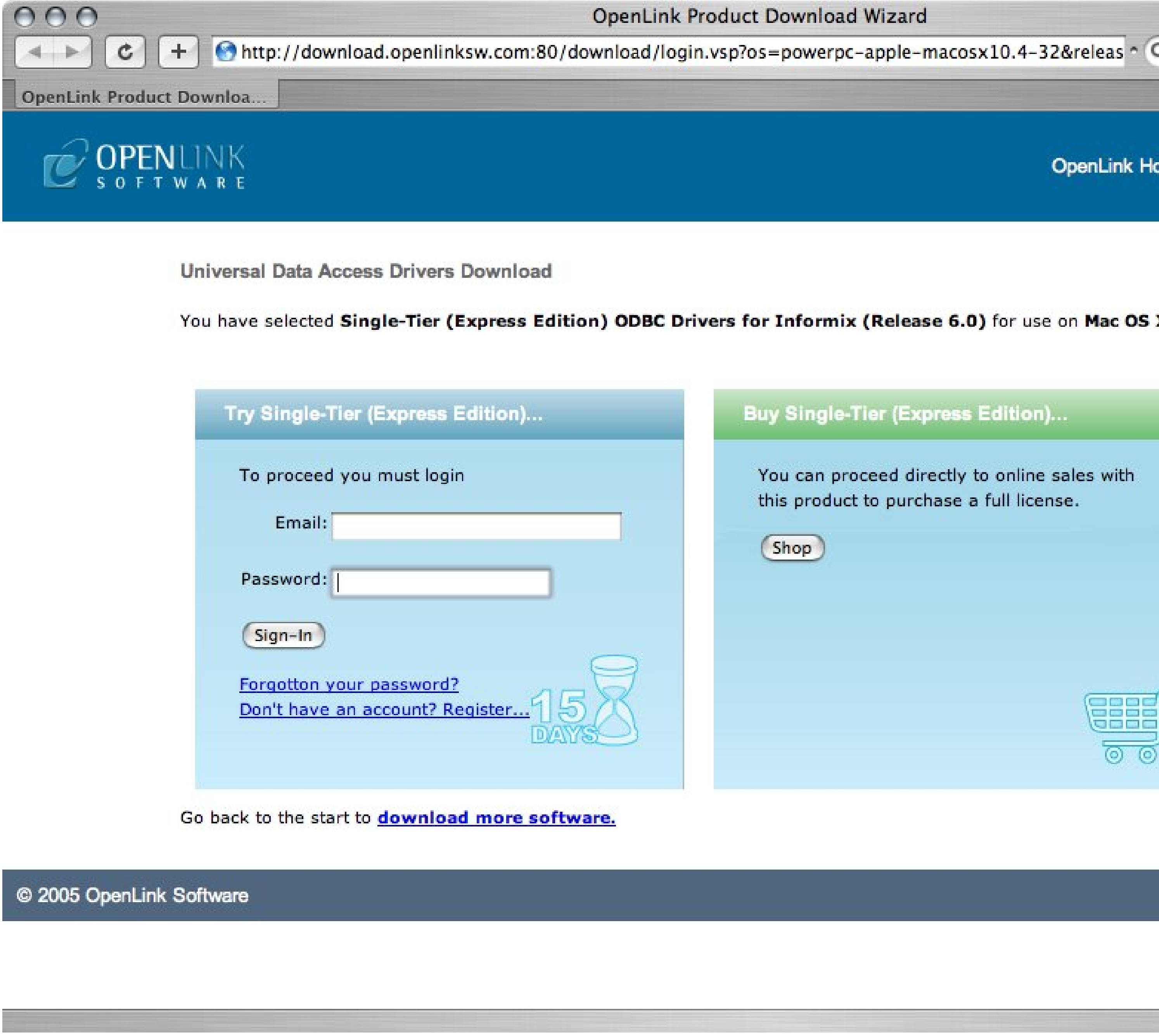
Press the 'Try or Buy' button to request a license using your browser. You will receive a license as an email attachement.

Press the 'Use existing License' button if you have already recived a license.

On the next dialog, press the 'Choose' button to select the license file for use or 'Cancel' to continue without one.

To obtain the trial license you must be a registered user on the OpenLink Web site and login with the username (e-mail address) and password for that user. Click on the 'Shop' link to visit our online shop cart to purchases a full license if required:

Figure 5.11. ee-inf-10.png



OpenLink Product Download Wizard
http://download.openlinksw.com:80/download/login.vsp?os=powerpc-apple-macosx10.4-32&releas
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Universal Data Access Drivers Download

You have selected **Single-Tier (Express Edition) ODBC Drivers for Informix (Release 6.0)** for use on **Mac OS X**

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To proceed you must login

Email:

Password:

Sign-In
Forgotton your password?
Don't have an account? Register...
15 DAYS

Buy Single-Tier (Express Edition)...

You can proceed directly to online sales with this product to purchase a full license.

Go back to the start to **download more software.**

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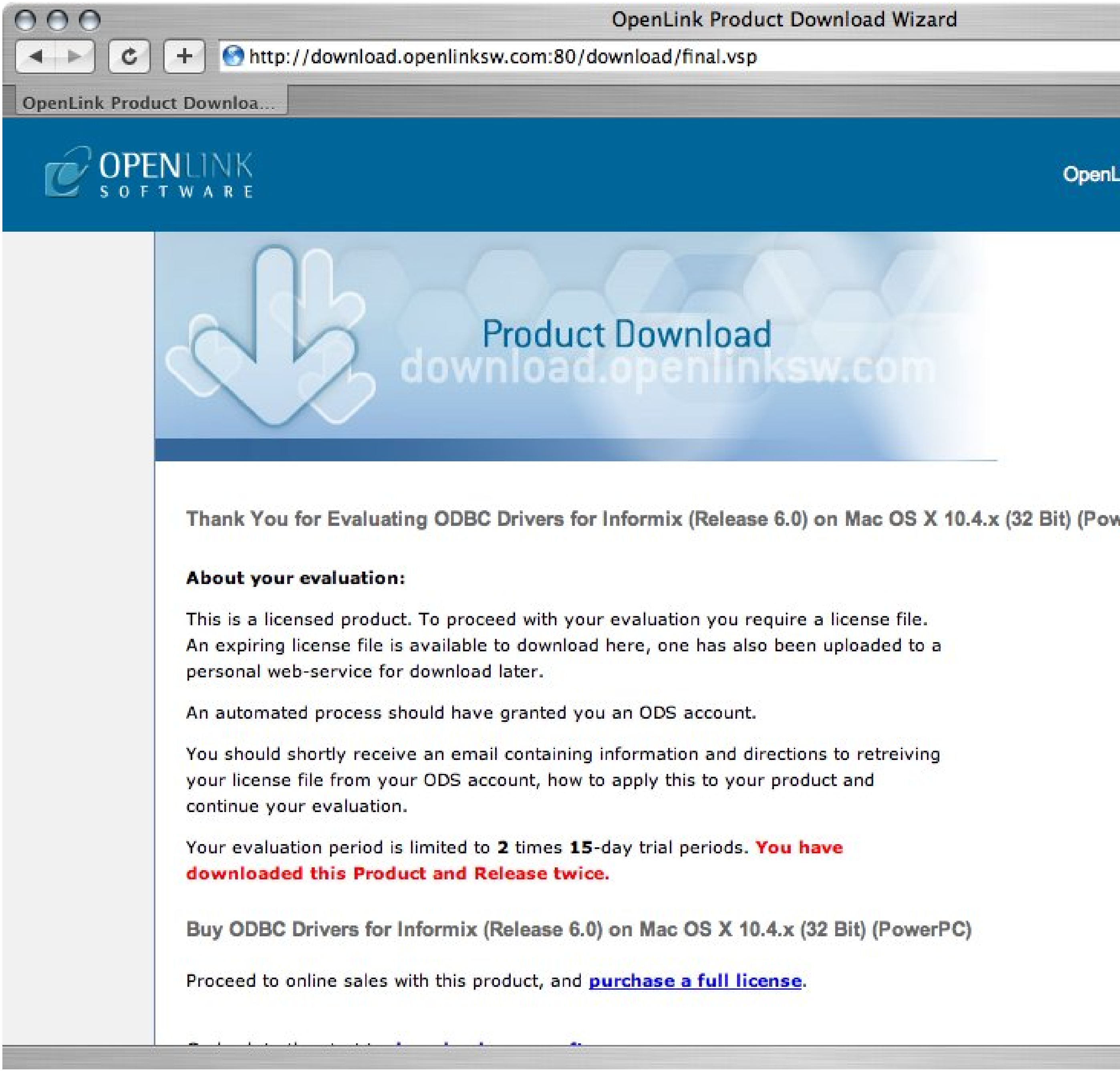
Click on the 'download license' button to obtain the license file immediately and save to your desktop. Alternatively an auto e-mail will be sent to the registered users e-mail address with a link to their OpenLink Data Space (ODS) where all trial and full license files will be stored in the Briefcase for download at a later date.

Figure 5.12. ee-inf-11.png


OpenLink Product Download Wizard
http://download.openlinksw.com:80/download/final.vsp
OpenLink Product Downloa...
OPENLINK SOFTWARE
OpenL
Product Download
download.openlinksw.com

Thank You for Evaluating ODBC Drivers for Informix (Release 6.0) on Mac OS X 10.4.x (32 Bit) (Pow

About your evaluation:

This is a licensed product. To proceed with your evaluation you require a license file. An expiring license file is available to download here, one has also been uploaded to a personal web-service for download later.

An automated process should have granted you an ODS account.

You should shortly receive an email containing information and directions to retreiving your license file from your ODS account, how to apply this to your product and continue your evaluation.

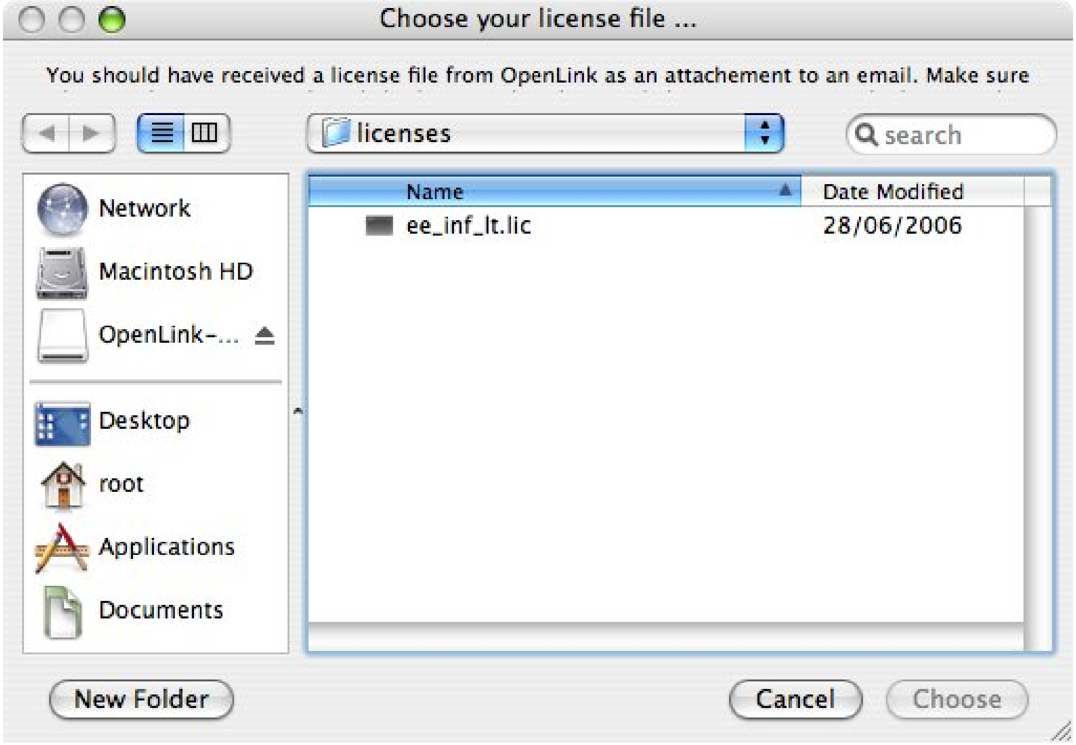
Your evaluation period is limited to **2** times **15**-day trial periods. **You have downloaded this Product and Release twice.**

Buy ODBC Drivers for Informix (Release 6.0) on Mac OS X 10.4.x (32 Bit) (PowerPC)

Proceed to online sales with this product, and **purchase a full license**.

Select the license file to be used for the installation:

Figure 5.13. ee-inf-12.png



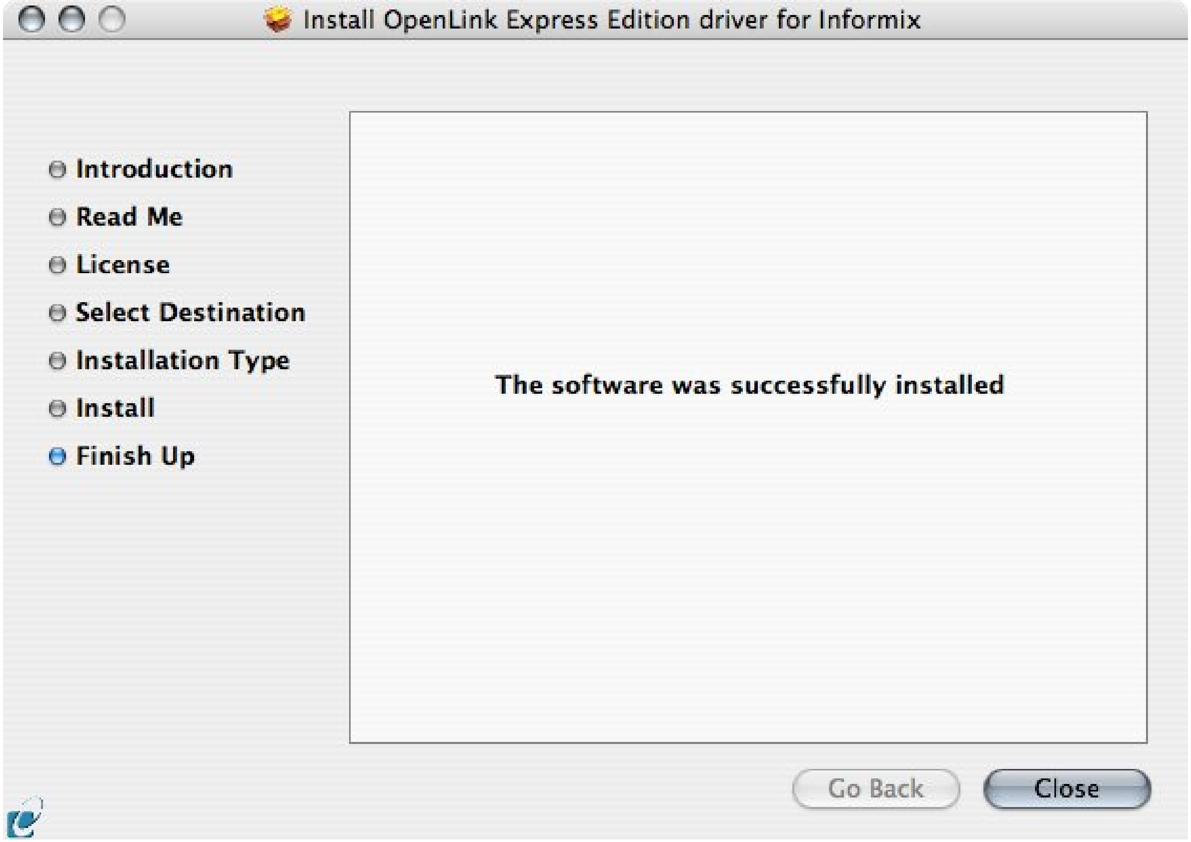
Choose your license file ...

You should have received a license file from OpenLink as an attachement to an email. Make sure

Name	Date Modified
ee_inf_lt.lic	28/06/2006

Installation is complete:

Figure 5.14. ee-inf-13.png



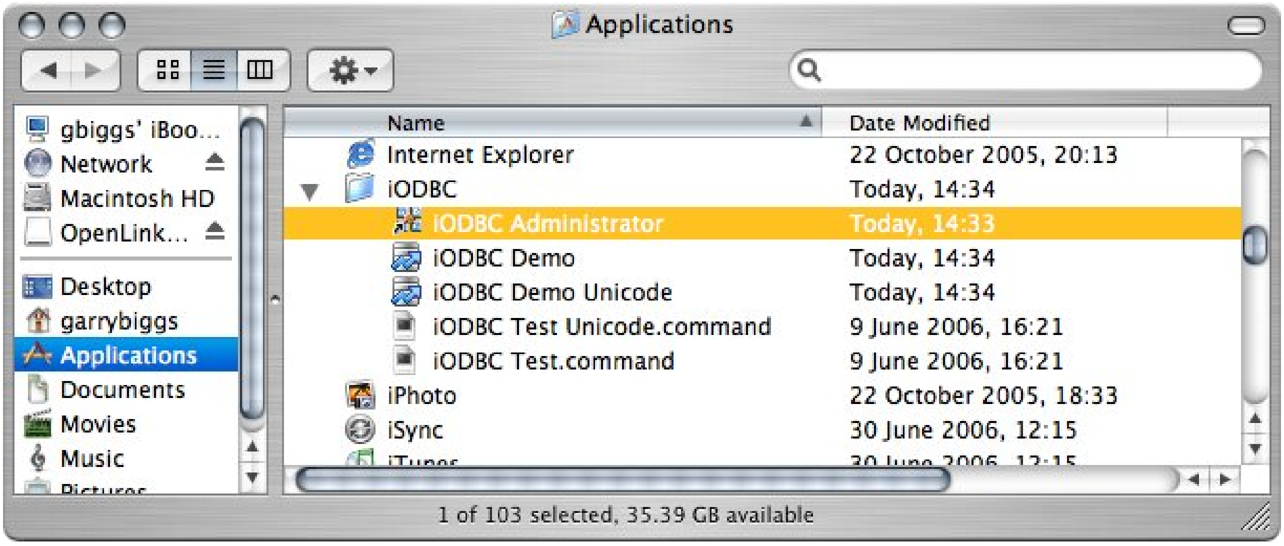
Install OpenLink Express Edition driver for Informix

The software was successfully installed

6.1.2 Configuration

To configure an ODBC DSN, run the OpenLink iODBC Administrator located in the /Applications/iODBC folder:

Figure 5.15. ee-inf-14.png

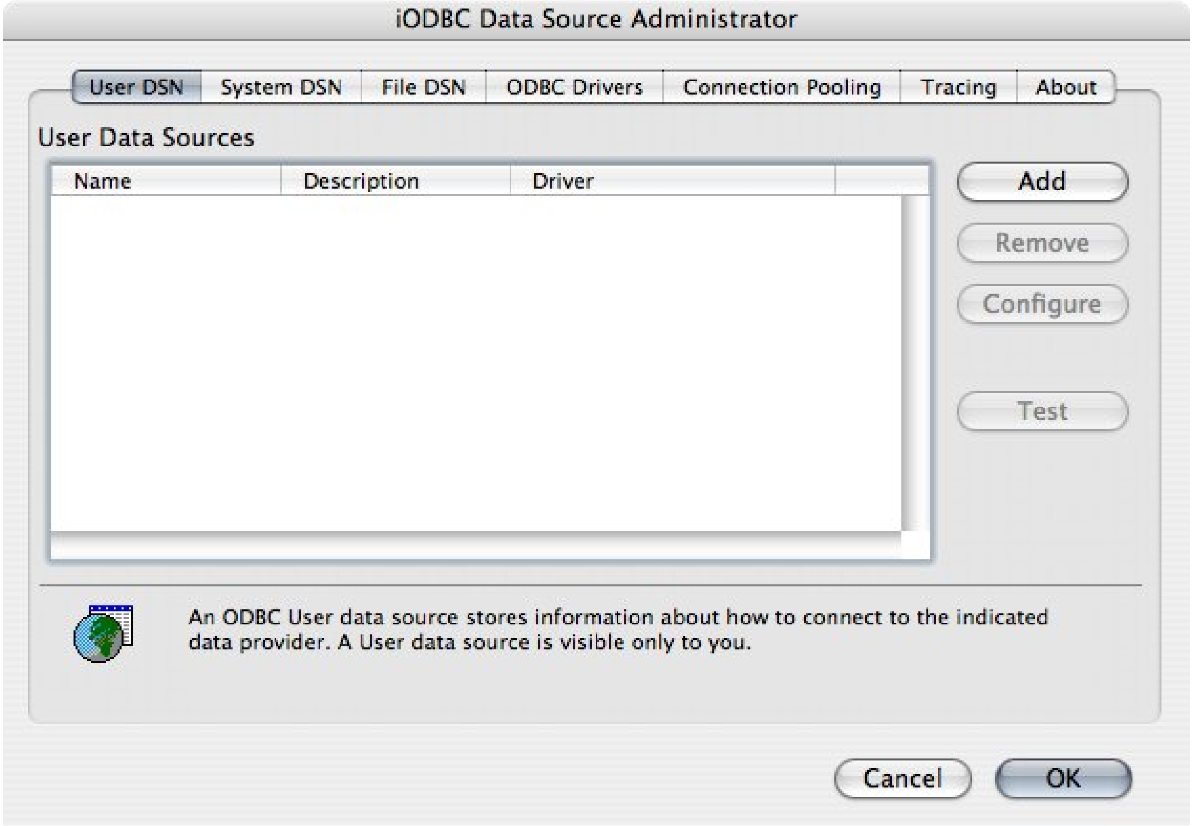


Name	Date Modified
Internet Explorer	22 October 2005, 20:13
iODBC	Today, 14:34
iODBC Administrator	Today, 14:33
iODBC Demo	Today, 14:34
iODBC Demo Unicode	Today, 14:34
iODBC Test Unicode.command	9 June 2006, 16:21
iODBC Test.command	9 June 2006, 16:21
iPhoto	22 October 2005, 18:33
iSync	30 June 2006, 12:15
iTunes	30 June 2006, 12:15

1 of 103 selected, 35.39 GB available

Click on the `add' button to Choose the ODBC Driver the DSN should be created for:

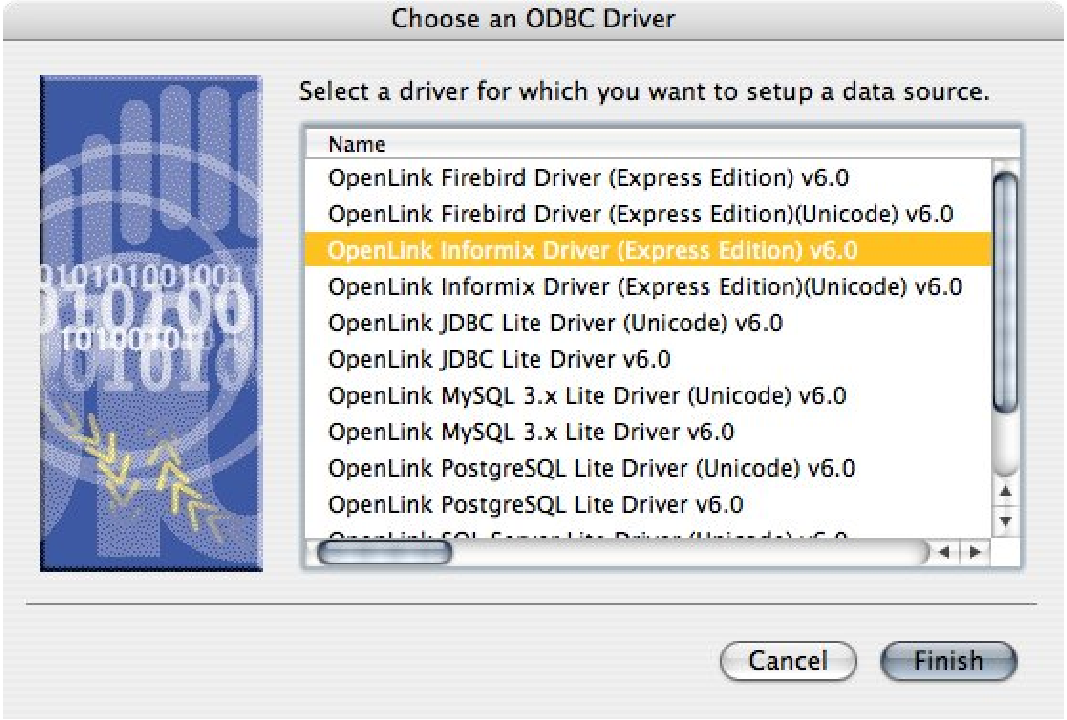
Figure 5.16. ee-inf-15.png



An ODBC User data source stores information about how to connect to the indicated data provider. A User data source is visible only to you.

Choose the OpenLink Informix Driver (Express Edition) v6.0 from the list of available drivers:

Figure 5.17. ee-inf-16.png



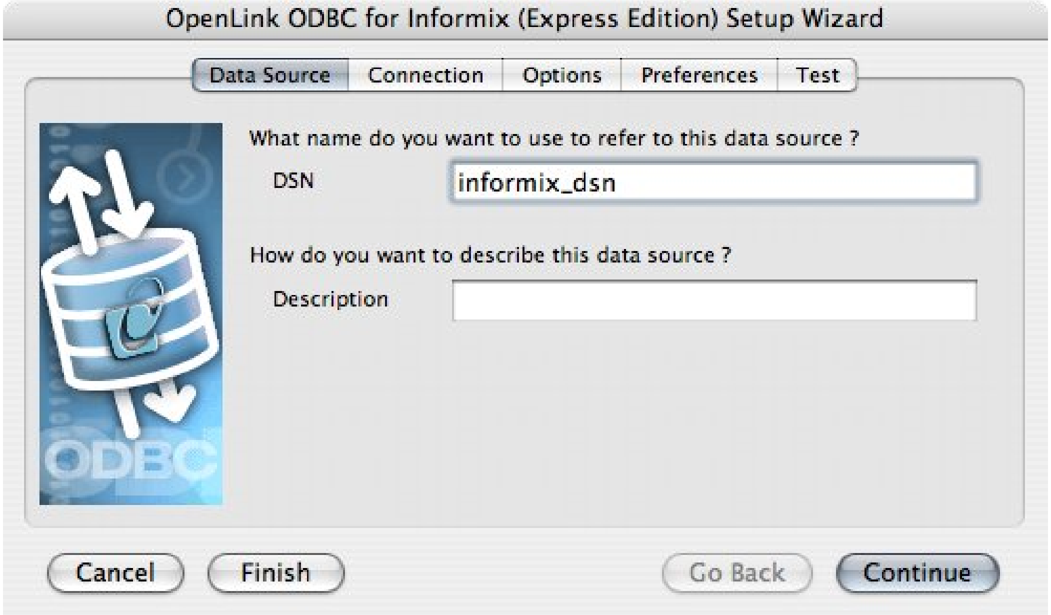
Select a driver for which you want to setup a data source.

Name

OpenLink Firebird Driver (Express Edition) v6.0
OpenLink Firebird Driver (Express Edition)(Unicode) v6.0
OpenLink Informix Driver (Express Edition) v6.0
OpenLink Informix Driver (Express Edition)(Unicode) v6.0
OpenLink JDBC Lite Driver (Unicode) v6.0
OpenLink JDBC Lite Driver v6.0
OpenLink MySQL 3.x Lite Driver (Unicode) v6.0
OpenLink MySQL 3.x Lite Driver v6.0
OpenLink PostgreSQL Lite Driver (Unicode) v6.0
OpenLink PostgreSQL Lite Driver v6.0

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 5.18. ee-inf-17.png



What name do you want to use to refer to this data source ?

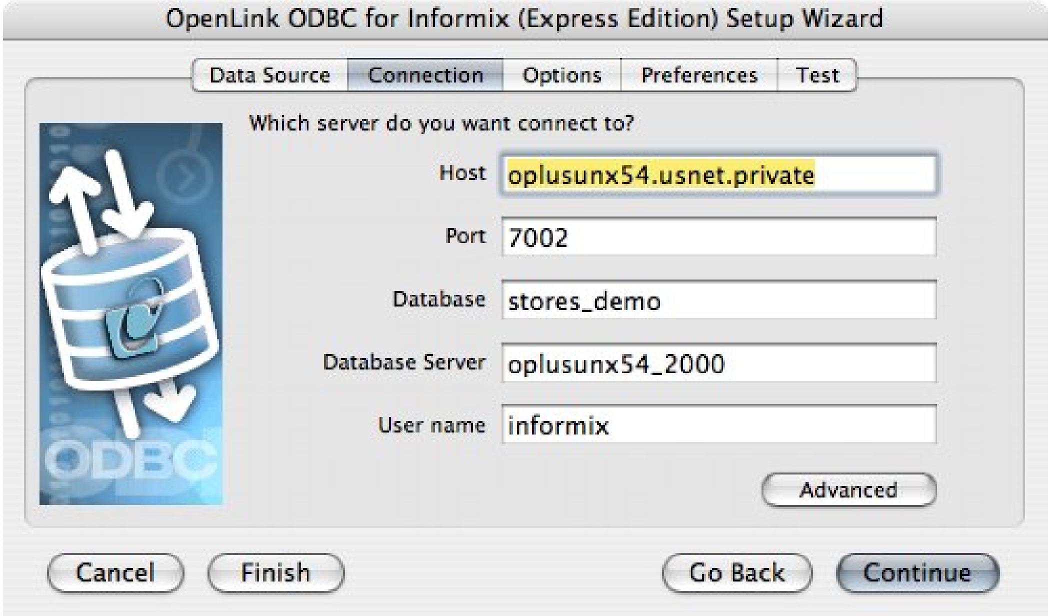
DSN: informix_dsn

How do you want to describe this data source ?

Description:

The Connection Tab request the minimum paramters required to make a connection to the target database:

Figure 5.19. ee-inf-18.png



Which server do you want connect to?

Host oplusunx54.usnet.private

Port 7002

Database stores_demo

Database Server oplusunx54_2000

User name informix

- Host - the hostname of the server on which Informix is running
- Port - the port on which the Informix instance listens
- Database - the name of a valid database
- Database Server - the name of the Informix Server running on a given Host
- Username - the name of a valid Informix user
- Advanced - additional optional configuration parameters:

Table 5.1.

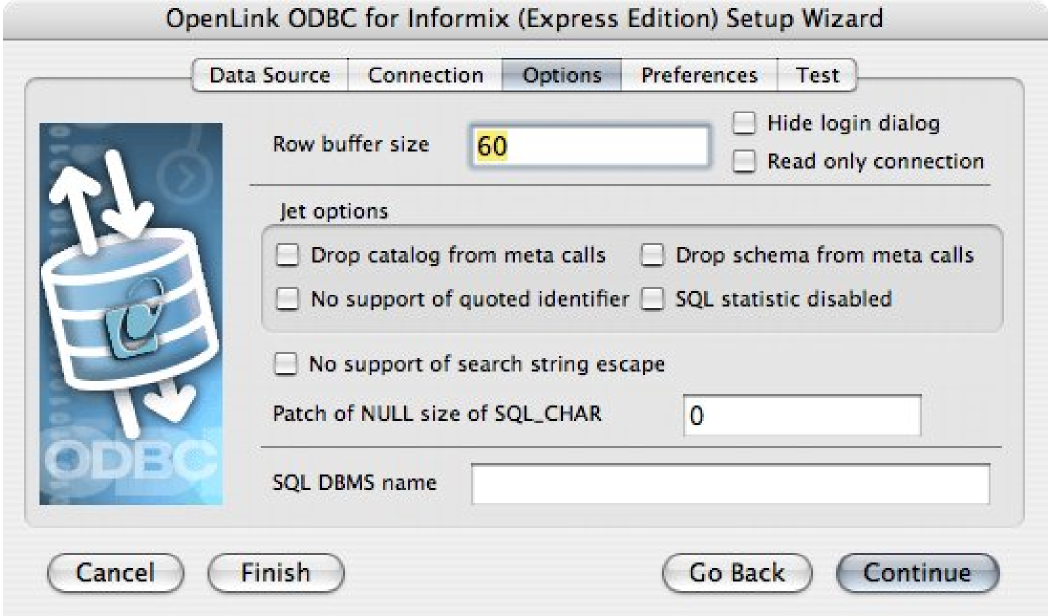
IfxPORTNO_SECONDARY	Specifies the port number of the secondary database server in an HDR pair. The port number is listed in the /etc/services file.
IfxIFXHOST_SECONDARY	Sets the secondary host name or host IP address for HDR connection redirection
IfxINFORMIXSERVER_SECONDARY	Specifies the secondary database server in an HDR pair to which an explicit or implicit connection is made by a client application if the primary database server is unavailable
IfxENABLE_HDRSWITCH	When set to 'true', secondary server properties are used to connect to the secondary server in an HDR pair, if the primary server is unavailable.
IfxJDBCTEMP	Specifies where temporary files for handling smart large objects are created. You must supply an absolute pathname.
IfxSECURITY	Uses 56-bit encryption to send the password to the server. If 'PASSWORD' is specified, the user-provided password is encrypted using 56-bit encryption when it is passed from the client to the database server. There is no default setting. The setting is supported in the 7.31, 8.3 and later, and 9.x and later versions of the Informix database server.
IfxPROXY	Specifies an HTTP proxy server.
IfxSQLH_TYPE	When set to 'FILE', specifies that database information (such as host-name, port-number, user, and password) is specified in an sqlhosts file. When set to 'LDAP', specifies that this information is specified in an LDAP server
IfxSQLH_FILE	Example:http://host-name:port-number/sqlhosts.ius file://D:/local/myown/sqlhosts.ius
IfxLDAP_URL	Example: ldap://host-name:port-number
IfxLDAP_IFXBASE	Example: Informix-base-DN
IfxLDAP_USER	
IfxLDAP_PASSWD	
IfxSQLH_LOC	
IfxFET_BUF_SIZE	Overrides the default setting for the size of the fetch buffer for all data except large objects. The default size is 4096 bytes.

IfxBIG_FET_BUF_SIZE	In IBM Informix Extended Parallel Server, Version 8.4, overrides the default size of the tuple buffer and allows it to be increased up to 2GB.
IfxUSEV5SERVER	When set to 1, specifies that the Java program is connecting to an IBM Informix OnLine 5.x or IBM Informix SE 5.x or IBM Informix SE 7.x database server. This environment variable is mandatory if you are connecting to an IBM Informix OnLine 5.x or IBM Informix SE 5.x or IBM Informix SE 7.x database server.
IfxLOBCACHE	Determines the buffer size for large object data that is fetched from the database server Possible values are: v A number greater than 0. The maximum number of bytes is allocated in memory to hold the data. If the data size exceeds the LOBCACHE value, the data is stored in a temporary file; if a security violation occurs during creation of this file, the data is stored in memory. v Zero (0). The data is always stored in a file. If a security violation occurs, the driver makes no attempt to store the data in memory. v A negative number. The data is always stored in memory. If the required amount of memory is not available, an error occurs.
IfxIFX_USEPUT	When set to 1, enables bulk inserts.
IfxDELIMIDENT	When set to true, specifies that strings set off by double quotes are delimited identifiers
IfxINFORMIXSTACKSIZE	Specifies the stack size, in kilobytes, that the database server uses for a particular client session
IfxDBSPACETEMP	Specifies the dbspaces in which temporary tables are built
IfxDB_LOCALE	Specifies the locale of the databaseIBM Informix JDBC Driver uses this variable to perform code-set conversion between Unicode and the database locale. Together with the CLIENT_LOCALE variable, the database server uses this variable to establish the server processing locale. The DB_LOCALE and CLIENT_LOCALE values must be the same, or their code sets must be convertible.
IfxCLIENT_LOCALE	Specifies the locale of the client that is accessing the database Provides defaults for user-defined formats such as the GL_DATE format User-defined data types can use it for code-set conversion. Together with the DB_LOCALE variable, the database server uses this variable to establish the server processing locale. The DB_LOCALE and CLIENT_LOCALE values must be the same, or their code sets must be convertible.
IfxDBDATE	Specifies the end-user formats of values in DATE columns Supported for backward compatibility; GL_DATE is preferred.
IfxGL_DATE	Specifies the end-user formats of values in DATE columns This variable is supported in Informix database server versions 7.2x, 8.x, 9.x, and 10.x.
IfxDBCENTURY	Enables you to specify the appropriate expansion for one- or two-digit year DATE values
IfxSTMT_CACHE	When set to 1, enables the use of the shared-statement cache in a session. This feature can reduce memory consumption and speed query processing among different user sessions. The driver does not use this variable; it just passes the value to the server.
IfxNODEFDAC	When set to YES, prevents default table and routine privileges from being granted to the PUBLIC user when a new table or routine is created in a database that is not ANSI compliant. Default is NO.
IfxDBTEMP	Specifies the full pathname of the directory into which you want IBM Informix Enterprise Gateway products to place their temporary files and temporary tables. The driver does not use this variable; it just passes the value to the server.
IfxPSORT_DBTEMP	Specifies one or more directories to which the database server writes the temporary files it uses when performing a sort
IfxPSORT_NPROCS	Enables the database server to improve the performance of the parallel-process sorting package by allocating more threads for sorting
IfxDBUPSPACE	Specifies the amount of system disk space that the UPDATE STATISTICS statement can use when it simultaneously constructs multiple-column

	distributions
IfxPDQPRIORITY	Determines the degree of parallelism used by the database server
IfxIFX_DIRECTIVES	Determines whether the optimizer allows query optimization directives from within a query. This variable is set on the client. The driver does not use this variable; it just passes the value to the server.
IfxIFX_EXTDIRECTIVES	Specifies whether the query optimizer allows external query optimization directives from the sysdirectives system catalog table to be applied to queries in existing applications. The default is OFF. Possible values: ON External optimizer directives accepted OFF External optimizer directives not accepted 1 External optimizer directives accepted 0 External optimizer directives not accepted
IfxOPTCOMPIND	Specifies the join method that the query optimizer uses
IfxINFORMIXCONRETRY	Specifies the maximum number of additional connection attempts that can be made to each database server by the client during the time limit specified by the value of INFORMIXCONTIME
IfxINFORMIXCONTIME	Sets the timeout period for an attempt to connect to the database server. If a connection attempt does not succeed in this time, the attempt is aborted and a connection error is reported. The default value is 0 seconds. This variable adds timeouts for blocking socket methods and for socket connections.
IfxINFORMIXOPCACHE	Specifies the size of the memory cache for the staging-area blobspace of the client application
IfxPLCONFIG	Specifies the name of the configuration file used by the high-performance loader
IfxPATH	Specifies the directories that should be searched for executable programs
IfxPLOAD_LO_PATH	Specifies the pathname for smart-large-object handles (which identify the location of smart large objects such as BLOB, CLOB, and BOOLEAN data types). The driver does not use this variable; it just passes the value to the server.
IfxOPT_GOAL	Specifies the query performance goal for the optimizer. Set this variable in the user environment before you start an application. The driver does not use this variable; it just passes the value to the server.
IfxDBANSIWARN	When set to 1, checks for Informix extensions to ANSI-standard syntax
IfxIFX_CODESETLOB	The value of this variable determines whether code-set conversion is done in memory in or in temporary files. If set to 0, code-set conversion uses temporary files. If set to a value greater than 0, code-set conversion occurs in the memory of the client computer, and the value represents the number of bytes of memory allocated for the conversion.
IfxIFX_LOCK_MODE_WAIT	The default value is 0 (do not wait for the lock). Sets the value of Informix-specific variable IFX_LOCK_MODE_WAIT. Possible values: '-1' WAIT until the lock is released. '0' DO NOT WAIT, end the operation, and return with error. 'nn' WAIT for nn seconds for the lock to be released.
IfxIFX_ISOLATION_LEVEL	Sets the value of Informix-specific variable IFX_ISOLATION_LEVEL. Possible values: '1' - Dirty Read (equivalent to TRANSACTION_READ_UNCOMMITTED), '2' - Committed Read (equivalent to TRANSACTION_READ_COMMITTED), '3' - Cursor Stability (equivalent to TRANSACTION_READ_COMMITTED), '4' - Repeatable Read (equivalent to TRANSACTION_REPEATABLE_READ)

As indicated above the paramters of the options and preferences tabs are not required for a basic connection:

Figure 5.20. ee-inf-19.png



Row buffer size: 60

□ Hide login dialog

□ Read only connection

Jet options

□ Drop catalog from meta calls □ Drop schema from meta calls

□ No support of quoted identifier □ SQL statistic disabled

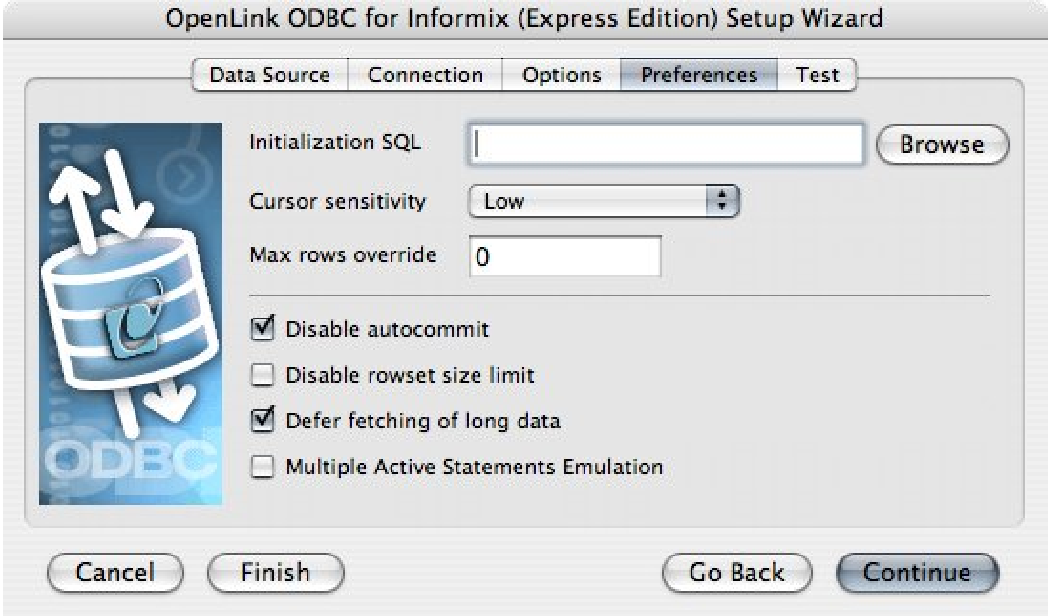
□ No support of search string escape

Patch of NULL size of SQL_CHAR: 0

SQL DBMS name:

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.
- *Hide Login Dialog* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC-compliant application.
- *Read-only connection* - Specify whether the connection is to be read-only. Make sure the checkbox is unchecked to request a read/write connection.
- *Drop Catalog from Meta calls* - Enable this option to have the catalog name not appear for tables, views and procedures when requesting database meta-data.
- *Drop Schema from Meta calls* - Enable this option to have the schema-name not appear for tables, views and procedures when requesting database meta-data.
- *SQLStatistics disabled* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table (e.g. what indexes there are on it).
- *No support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if DBMS doesn't support quoted SQL such as select * from "account"
- *No support of search string escape* - If it is set, the call SQLGetInfo() for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if DBMS doesn't support SQL escape patterns
- *Patch of NULL size of SQL_CHAR* - If set this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0 the driver uses the size returned by the database.
- *SQL_DBMS Name* - Manually override the SQLGetInfo(SQL_DBMS_NAME) response returned by the driver. This is know to be required for products like Microsoft InfoPath for which the return the value should be "SQL Server".

Figure 5.21. ee-inf-20.png



OpenLink ODBC for Informix (Express Edition) Setup Wizard

Initialization SQL

Cursor sensitivity: Low

Max rows override: 0

☑ Disable autocommit

□ Disable rowset size limit

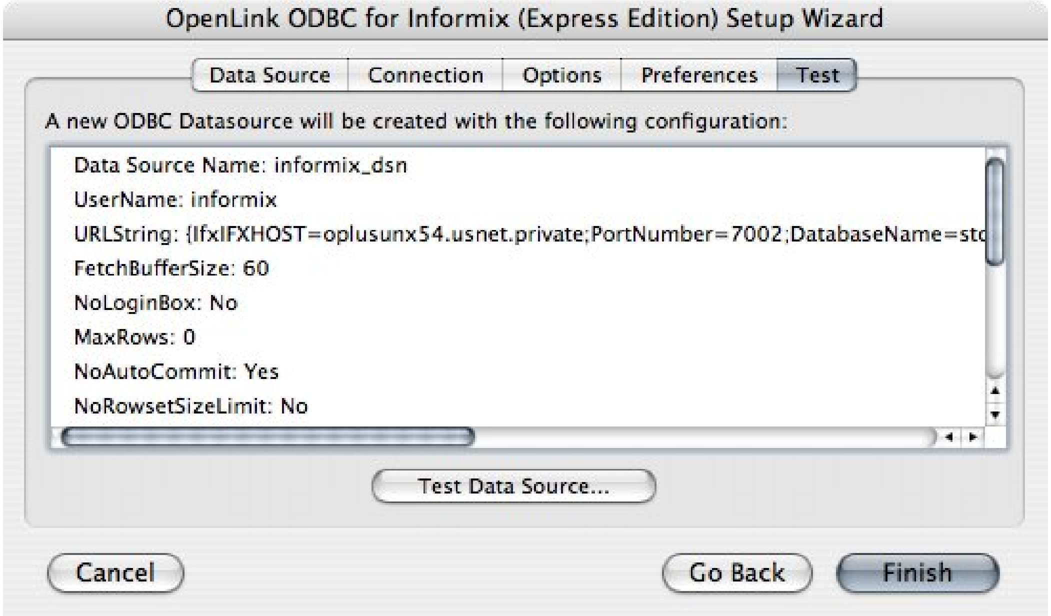
☑ Defer fetching of long data

□ Multiple Active Statements Emulation

- *Initialization SQL* - Lets you specify a file containing SQL statements that will be run against the database upon connection, automatically.
- *Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows don't appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate script for the target database.
- *MaxRows Override* - Allows you to define a limit on the maximum number of rows to returned from a query. The default value of 0 means no limit.
- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Lite Driver. The default mode is AutoCommit mode (box unchecked).
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset is generated from an erroneous query is very large. The limit is normally never reached.
- *Defer fetching of long data* - Defer fetching of LONG (BINARY, BLOB etc.) data unless explicitly requested in query. This provides significant performance increase when fields in query does not include LONG data fields.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Click on the 'Test Data Source' button to make a connection to the database to verify connectivity:

Figure 5.22. ee-inf-21.png

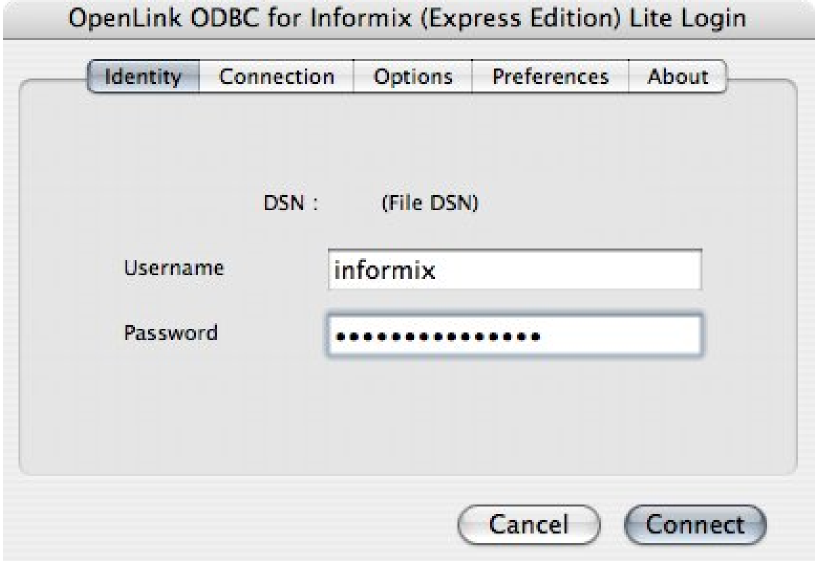


A new ODBC Datasource will be created with the following configuration:

```
Data Source Name: informix_dsn
UserName: informix
URLString: {IfxIFXHOST=oplusunx54.usnet.private;PortNumber=7002;DatabaseName=sto
FetchBufferSize: 60
NoLoginBox: No
MaxRows: 0
NoAutoCommit: Yes
NoRowsetSizeLimit: No
```

Enter a vaild username and pasword for the database:

Figure 5.23. ee-inf-22.png



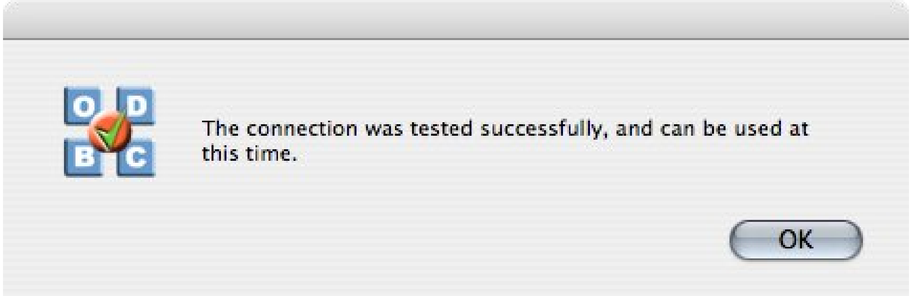
DSN : (File DSN)

Username informix

Password •••••••••••••••

A successful connection to the database has been made:

Figure 5.24. ee-inf-23.png



The connection was tested successfully, and can be used at this time.

6.2 OpenLink ODBC Driver for Informix (Express Edition) for Windows

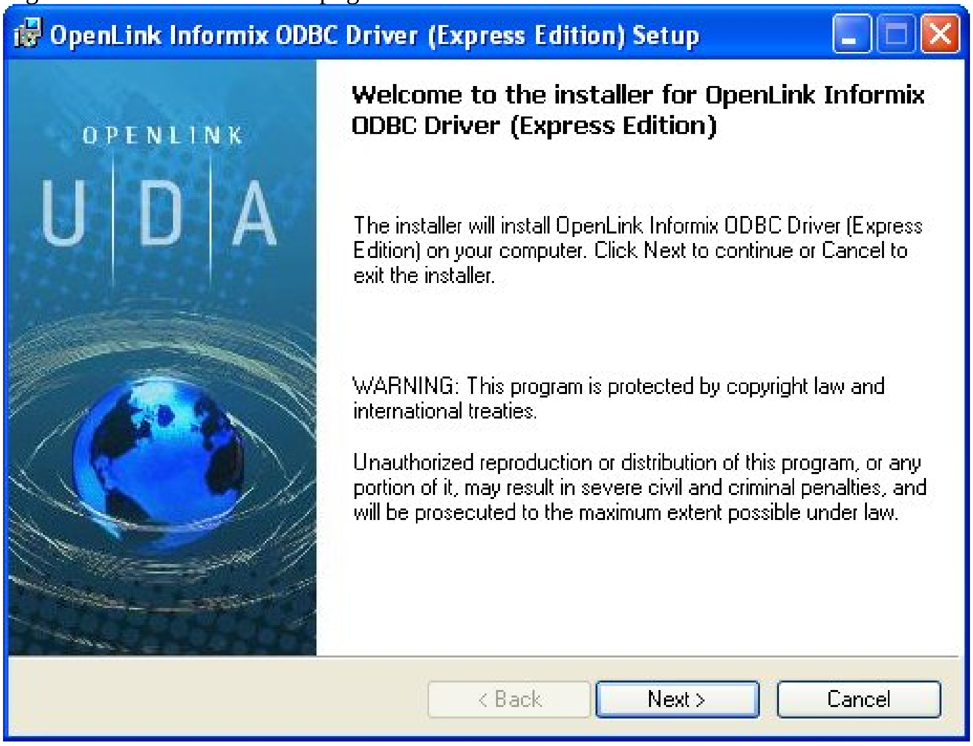
6.2.1 Installation

The OpenLink ODBCDriver for Informix (Express Edition) is a distributed as a Windows MSI installer. Simply double click on the installer 'ntl6einf.msi' to commence the installation:

Figure 5.25. EEWininfinst01.png

Installer Welcome Dialog for the OpenLink ODBCDriver for Informix (Express Edition):

Figure 5.26. EEWininfinst02.png



Welcome to the installer for OpenLink Informix ODBC Driver (Express Edition)

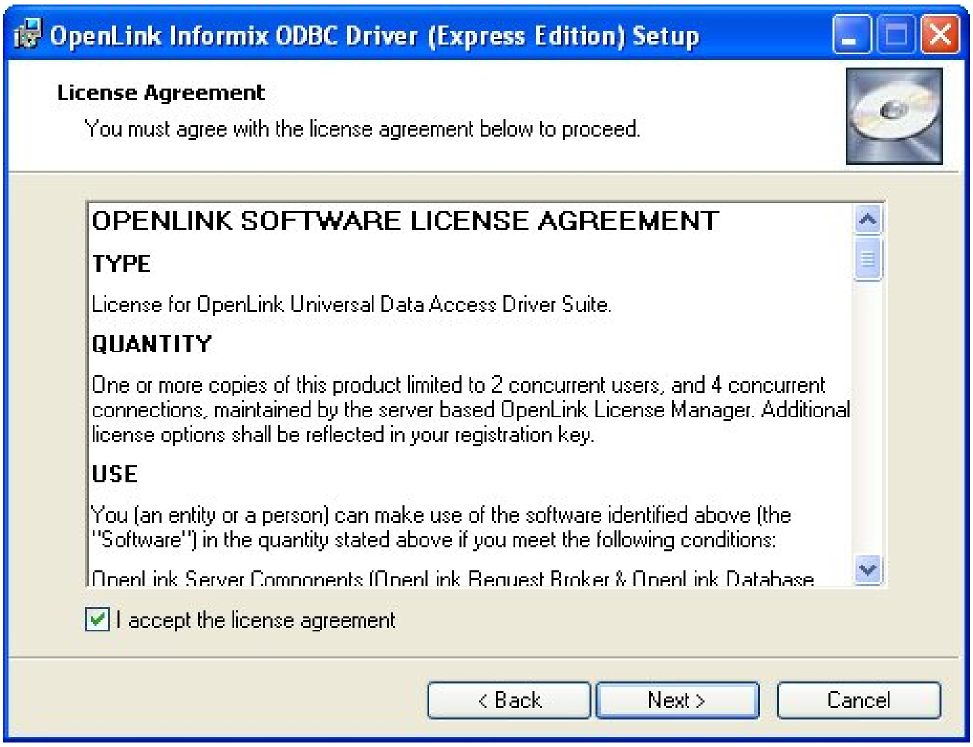
The installer will install OpenLink Informix ODBC Driver (Express Edition) on your computer. Click Next to continue or Cancel to exit the installer.

WARNING: This program is protected by copyright law and international treaties.

Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.

Please read the software license agreement and accept before continuing your installation:

Figure 5.27. EEWininfinst03.png



License Agreement

You must agree with the license agreement below to proceed.

OPENLINK SOFTWARE LICENSE AGREEMENT

TYPE

License for OpenLink Universal Data Access Driver Suite.

QUANTITY

One or more copies of this product limited to 2 concurrent users, and 4 concurrent connections, maintained by the server based OpenLink License Manager. Additional license options shall be reflected in your registration key.

USE

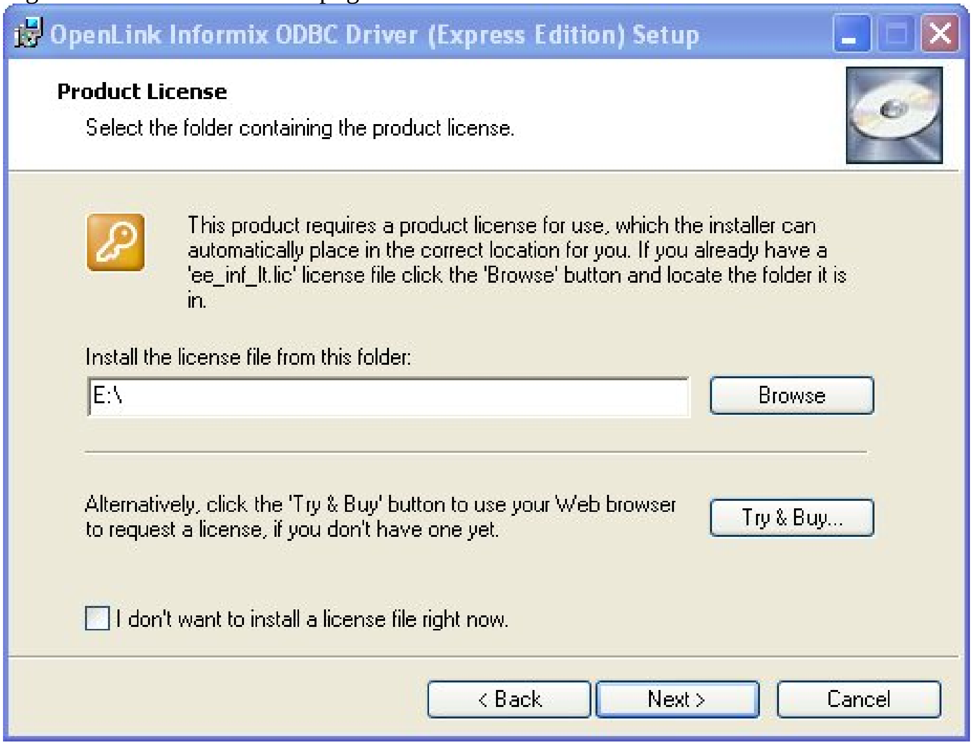
You (an entity or a person) can make use of the software identified above (the "Software") in the quantity stated above if you meet the following conditions:

OpenLink Server Components (OpenLink Request Broker & OpenLink Database

☑ I accept the license agreement

Before installation you will be prompted for a license file. If a license file already exists on the machine then select the 'use existing file' option. A trial (try) or full (buy) license can be obtain by selecting the 'try and buy' option which loads our online try and buy web page:

Figure 5.28. EEWininfinst04.png



Product License

Select the folder containing the product license.

This product requires a product license for use, which the installer can automatically place in the correct location for you. If you already have a 'ee_inf_lt.lic' license file click the 'Browse' button and locate the folder it is in.

Install the license file from this folder:

E:\

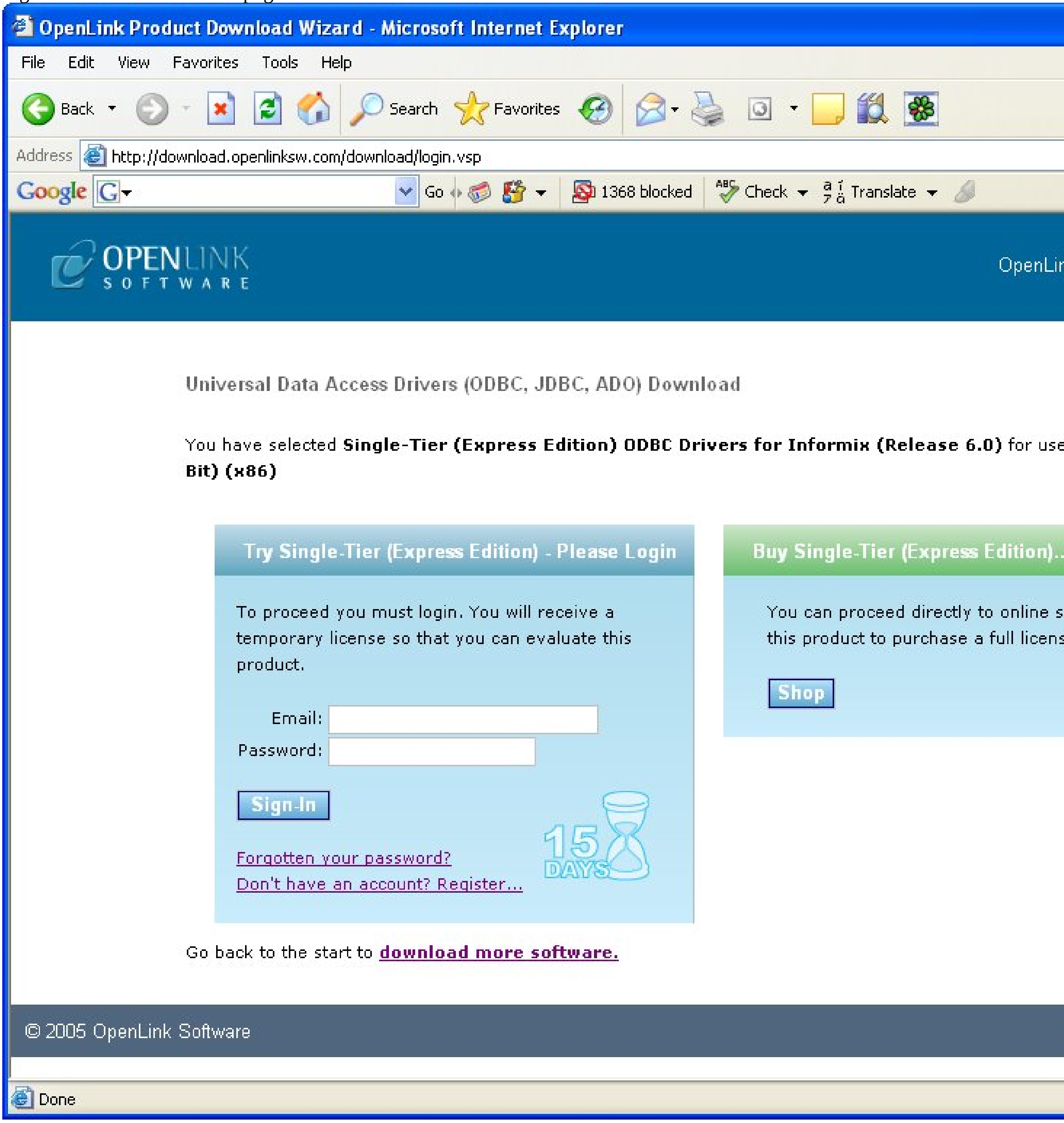
Alternatively, click the 'Try & Buy' button to use your Web browser to request a license, if you don't have one yet.

□ I don't want to install a license file right now.

To obtain the trial license you must be a registered user on the OpenLinkWeb site and login with the username (e-mail address) and password for that user. Click on the 'Shop' link to visit our online shop cart to purchases a full license if required:

Click on the 'download license' button to obtain the license file immediately and save to your desktop. Alternatively an auto e-mail will be sent to the registered users e-mail address with a link to their OpenLinkData Space (ODS) where all trial and full license files will be stored in the Briefcase for download at a later date.

Figure 5.29. EEWininfinst05.png



http://download.openlinksw.com/download/login.vsp

Universal Data Access Drivers (ODBC, JDBC, ADO) Download

You have selected **Single-Tier (Express Edition) ODBC Drivers for Informix (Release 6.0)** for use **Bit) (x86)**

Try Single-Tier (Express Edition) - Please Login

To proceed you must login. You will receive a temporary license so that you can evaluate this product.

Email:
Password:

Forgotten your password?
Don't have an account? Register...

Buy Single-Tier (Express Edition)..

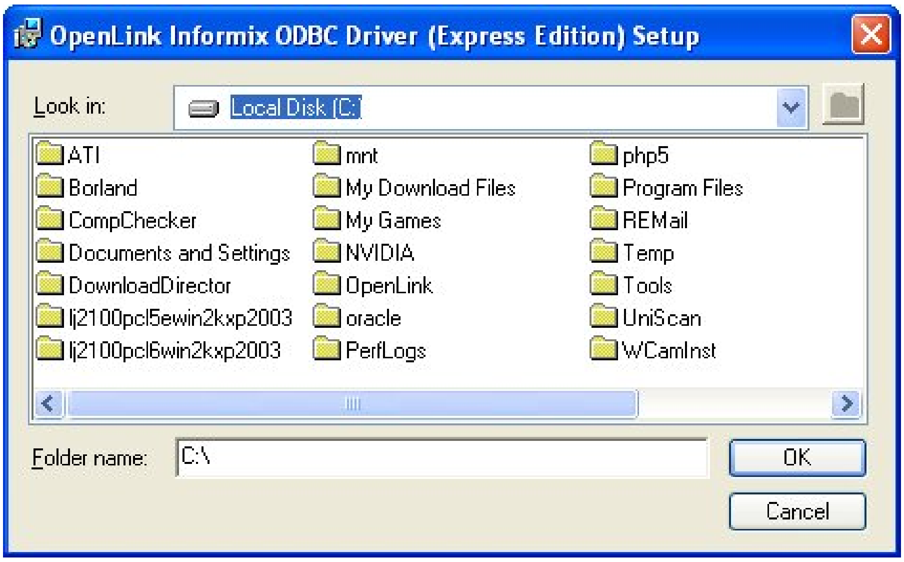
You can proceed directly to online s this product to purchase a full licens

Go back to the start to download more software.

© 2005 OpenLink Software

Select the license file to be used for the installation:

Figure 5.30. EEWininfinst06.png


OpenLink Informix ODBC Driver (Express Edition) Setup

Look in: Local Disk (C:)

ATI
Borland
CompChecker
Documents and Settings
DownloadDirector
lj2100pcl5ewin2kxp2003
lj2100pcl6win2kxp2003
mnt
My Download Files
My Games
NVIDIA
OpenLink
oracle
PerfLogs
php5
Program Files
REMail
Temp
Tools
UniScan
WCamInst

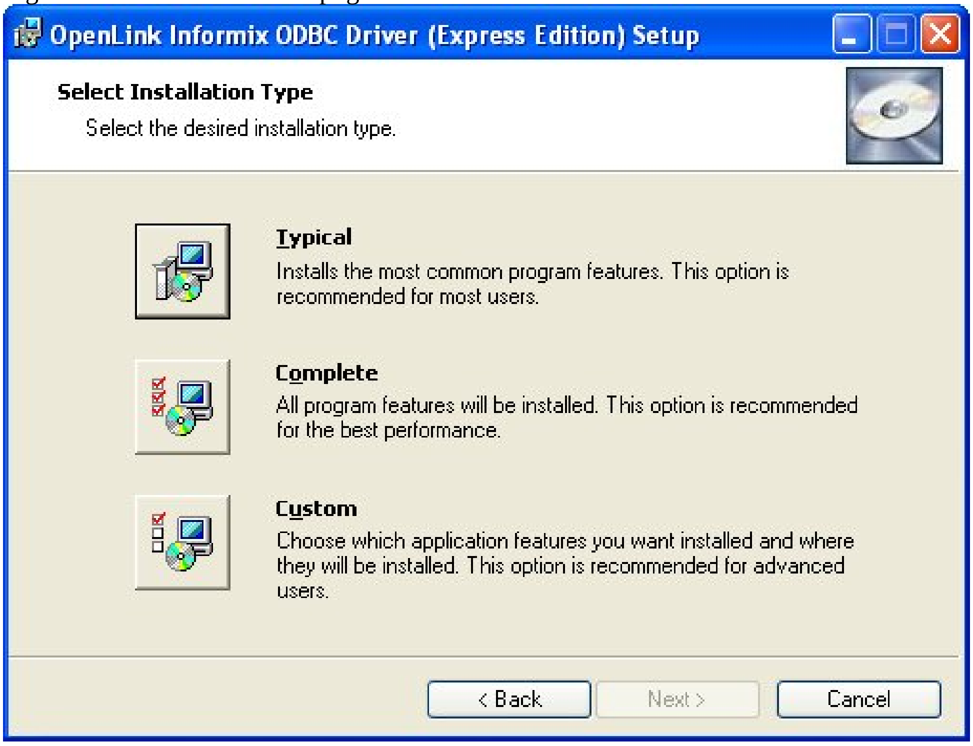
Folder name: C:\

OK

Cancel

Choose to perform a custom, typical or complete installation of the driver:

Figure 5.31. EEWininfinst07.png


OpenLink Informix ODBC Driver (Express Edition) Setup

Select Installation Type

Select the desired installation type.

Typical

Installs the most common program features. This option is recommended for most users.

Complete

All program features will be installed. This option is recommended for the best performance.

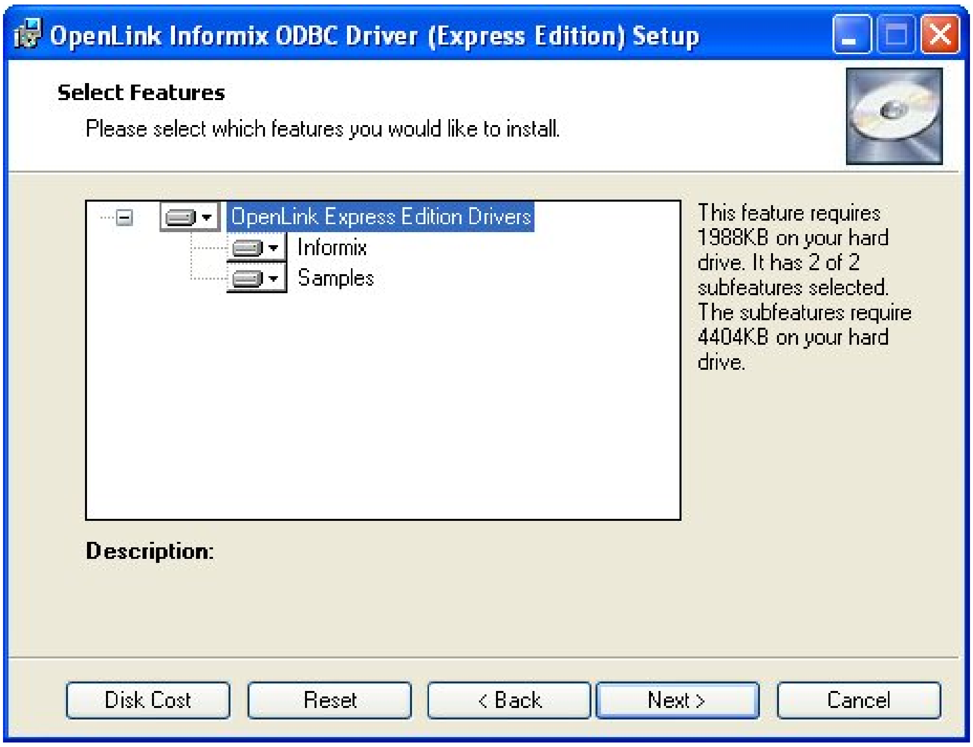
Custom

Choose which application features you want installed and where they will be installed. This option is recommended for advanced users.

< Back   Next >   Cancel

Select the features to be installed:

Figure 5.32. EEWininfinst09.png



OpenLink Informix ODBC Driver (Express Edition) Setup

Select Features

Please select which features you would like to install.

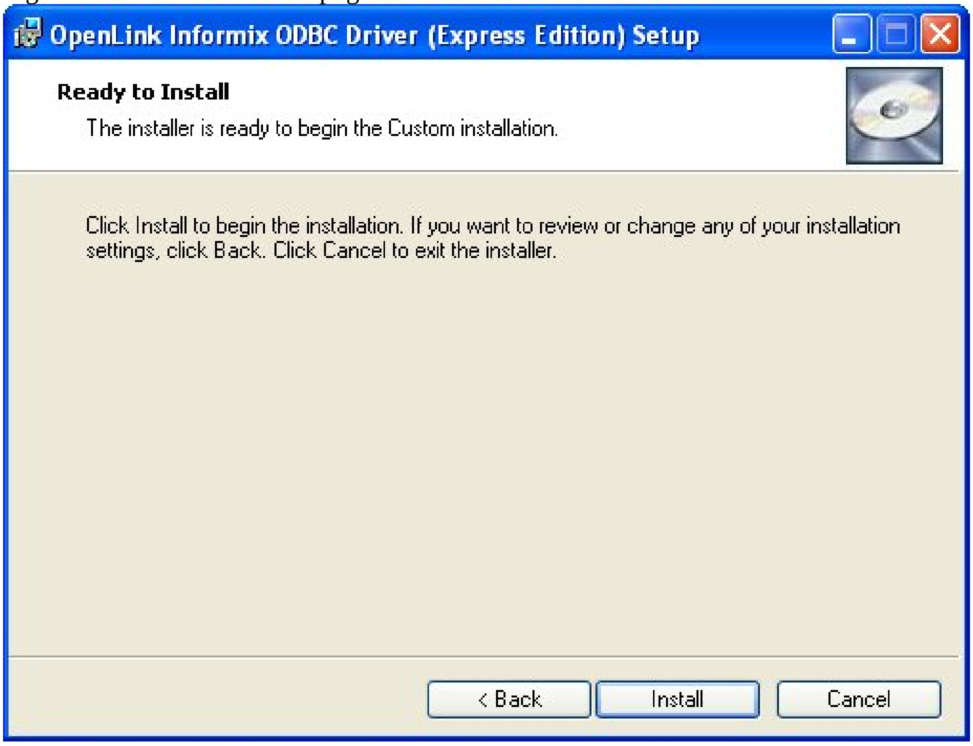
- OpenLink Express Edition Drivers
  - Informix
  - Samples

This feature requires 1988KB on your hard drive. It has 2 of 2 subfeatures selected. The subfeatures require 4404KB on your hard drive.

Description:

Click the install button to begin the installation of components:

Figure 5.33. EEWininfinst10.png



OpenLink Informix ODBC Driver (Express Edition) Setup

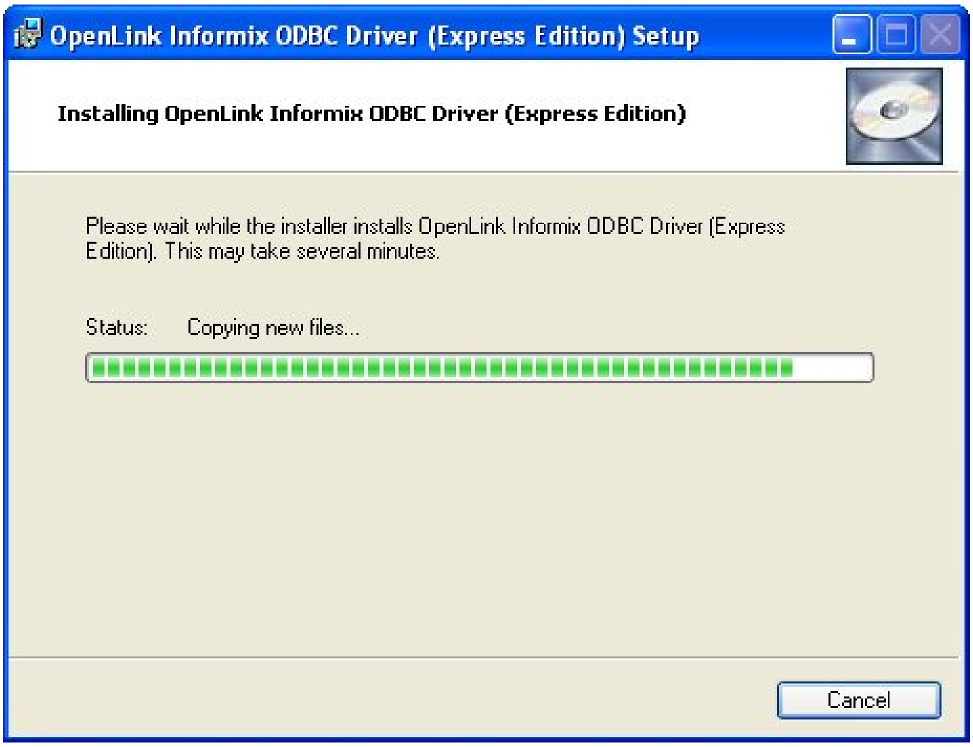
Ready to Install

The installer is ready to begin the Custom installation.

Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the installer.

Installation in progress:

Figure 5.34. EEWininfinst11.png



OpenLink Informix ODBC Driver (Express Edition) Setup

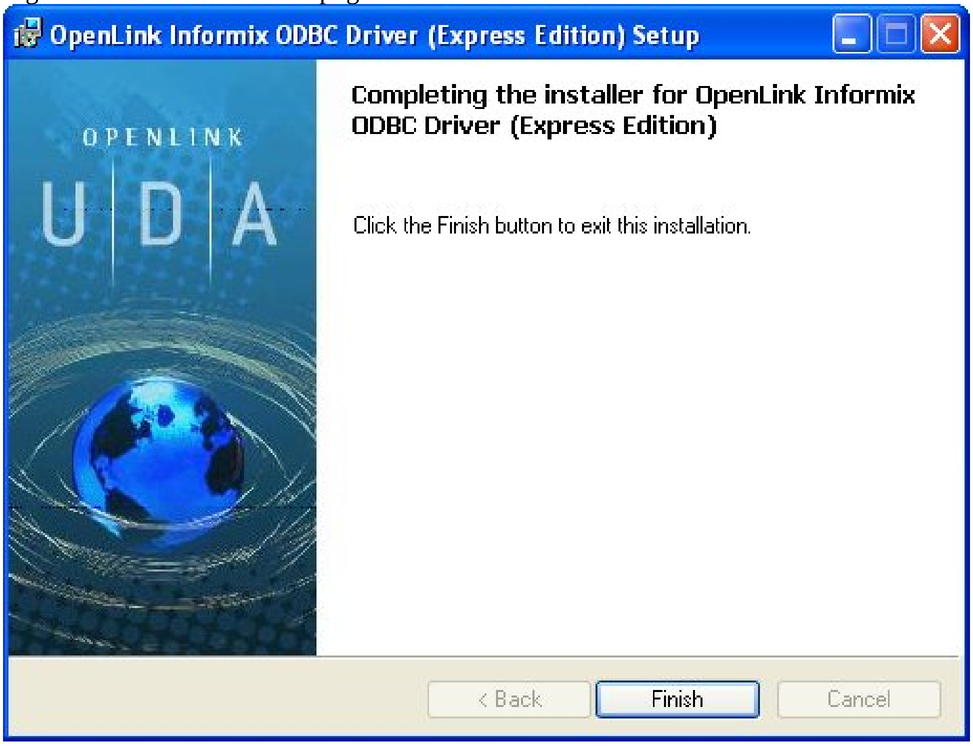
Installing OpenLink Informix ODBC Driver (Express Edition)

Please wait while the installer installs OpenLink Informix ODBC Driver (Express Edition). This may take several minutes.

Status: Copying new files...

The Software installation is complete and ready for use:

Figure 5.35. EEWininfinst12.png



OpenLink Informix ODBC Driver (Express Edition) Setup

Completing the installer for OpenLink Informix ODBC Driver (Express Edition)

Click the Finish button to exit this installation.

6.2.2 Configuration

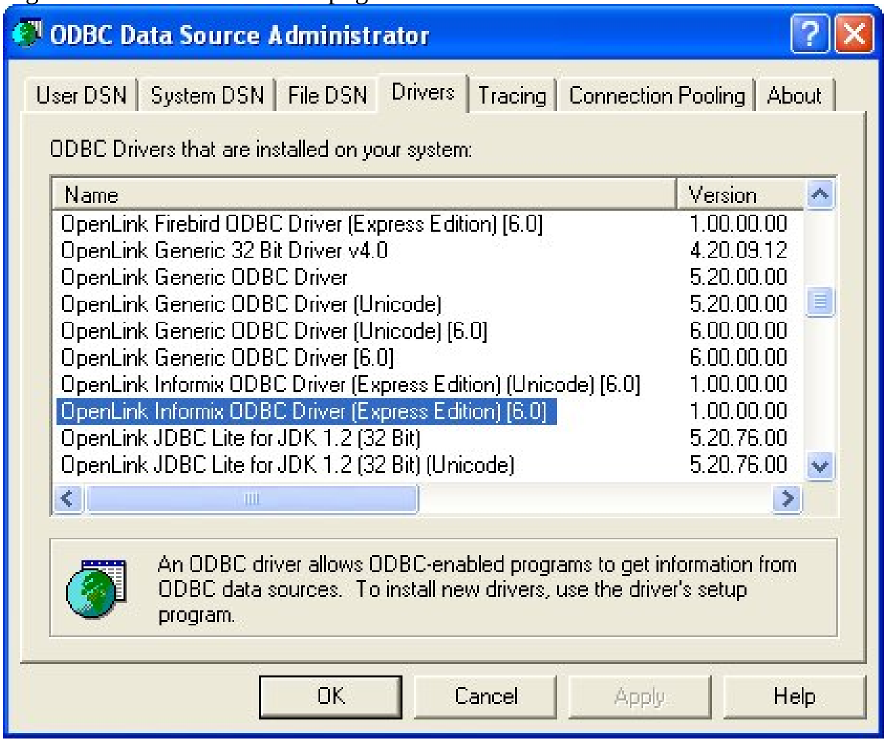
To configure an ODBCDSN, run the ODBCAdministrator located in the Administrative Tools section of the Control Panel:

Figure 5.36. EEWininfconf01.png

Data Sources (ODBC)
Shortcut
2 KB

Click on the drivers Tab to confirm the OpenLinkSQLServer ODBCDriver [Express Edition][6.0] has been successfully installed

Figure 5.37. EEWininfconf02.png



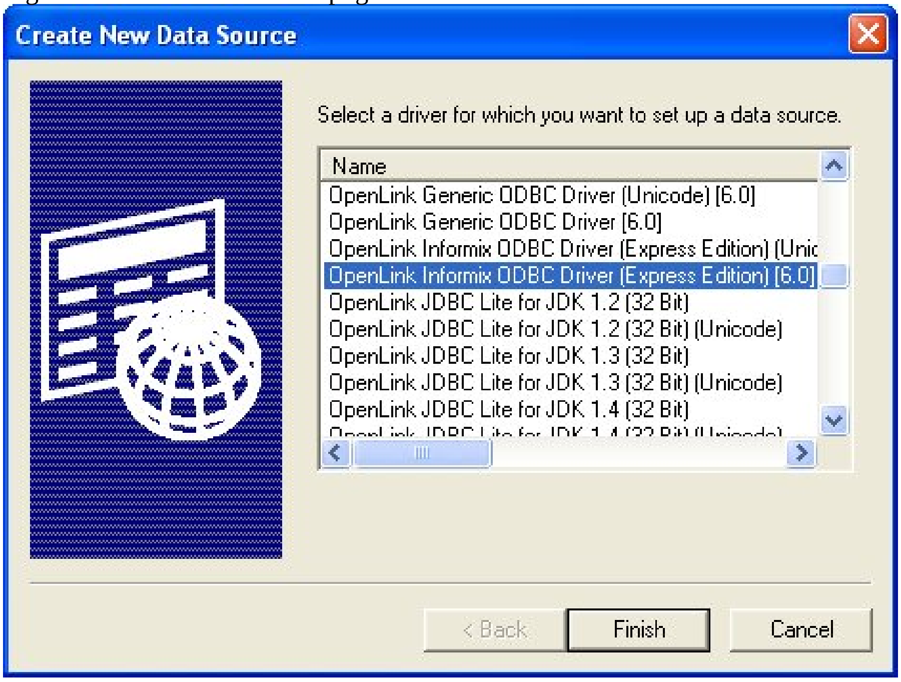
ODBC Drivers that are installed on your system:

Name	Version
OpenLink Firebird ODBC Driver (Express Edition) [6.0]	1.00.00.00
OpenLink Generic 32 Bit Driver v4.0	4.20.09.12
OpenLink Generic ODBC Driver	5.20.00.00
OpenLink Generic ODBC Driver (Unicode)	5.20.00.00
OpenLink Generic ODBC Driver (Unicode) [6.0]	6.00.00.00
OpenLink Generic ODBC Driver [6.0]	6.00.00.00
OpenLink Informix ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink Informix ODBC Driver (Express Edition) [6.0]	1.00.00.00
OpenLink JDBC Lite for JDK 1.2 (32 Bit)	5.20.76.00
OpenLink JDBC Lite for JDK 1.2 (32 Bit) (Unicode)	5.20.76.00

An ODBC driver allows ODBC-enabled programs to get information from ODBC data sources. To install new drivers, use the driver's setup program.

From either the User or System DSN tabs click on the Add button and select the OpenLinkSQLServer ODBCDriver [Express Edition][6.0] from the list presented to create an ODBCDSN :

Figure 5.38. EEWininfconf03.png

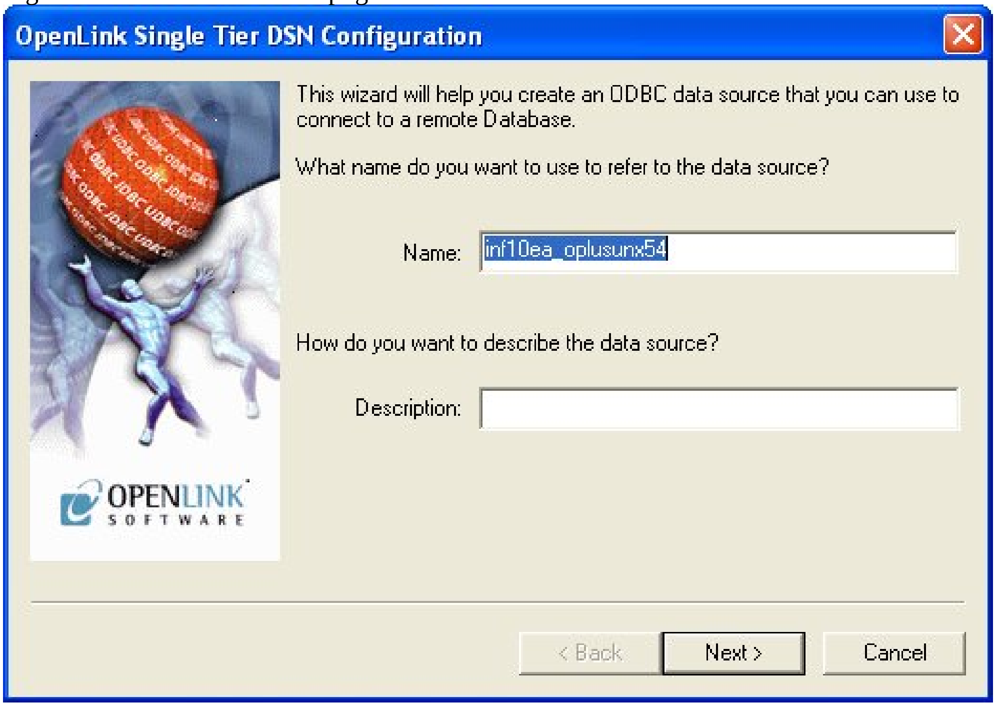


Select a driver for which you want to set up a data source.

Name
OpenLink Generic ODBC Driver (Unicode) [6.0]
OpenLink Generic ODBC Driver [6.0]
OpenLink Informix ODBC Driver (Express Edition) (Unic
OpenLink Informix ODBC Driver (Express Edition) [6.0]
OpenLink JDBC Lite for JDK 1.2 (32 Bit)
OpenLink JDBC Lite for JDK 1.2 (32 Bit) (Unicode)
OpenLink JDBC Lite for JDK 1.3 (32 Bit)
OpenLink JDBC Lite for JDK 1.3 (32 Bit) (Unicode)
OpenLink JDBC Lite for JDK 1.4 (32 Bit)
OpenLink JDBC Lite for JDK 1.4 (32 Bit) (Unicode)

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 5.39. EEWininfconf04.png



OpenLink Single Tier DSN Configuration

This wizard will help you create an ODBC data source that you can use to connect to a remote Database.

What name do you want to use to refer to the data source?

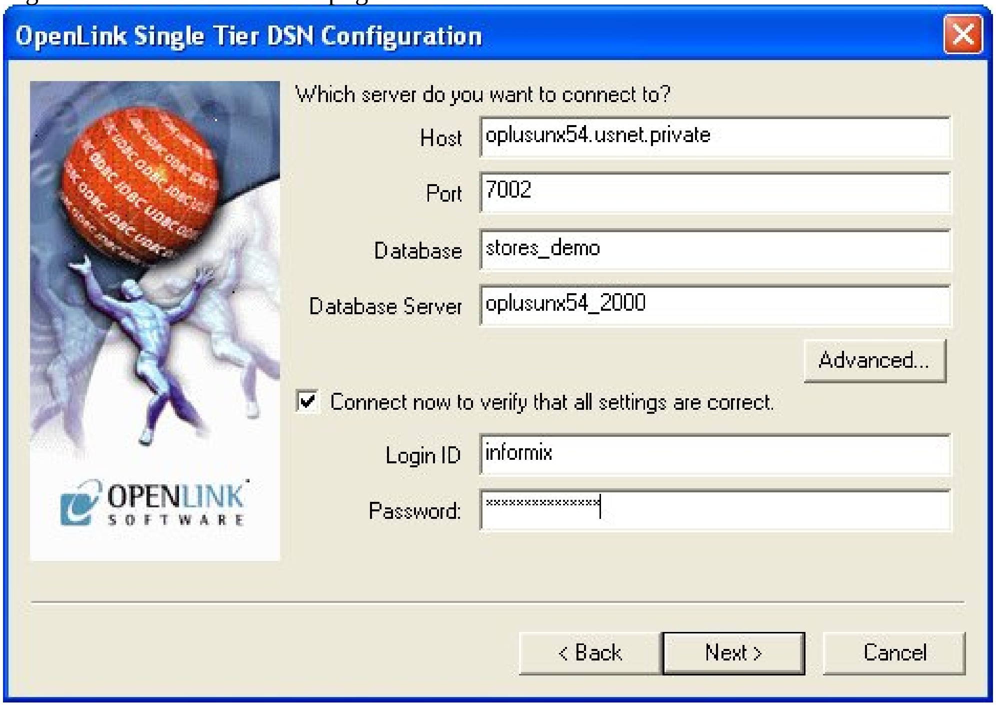
Name: inf10ea_oplusunx54

How do you want to describe the data source?

Description:

The Connection Tab request the minimum paramters required to make a connection to the target database:

Figure 5.40. EEWininfconf05.png



OpenLink Single Tier DSN Configuration

Which server do you want to connect to?

Host: oplusunx54.usnet.private

Port: 7002

Database: stores_demo

Database Server: oplusunx54_2000

☑ Connect now to verify that all settings are correct.

Login ID: informix

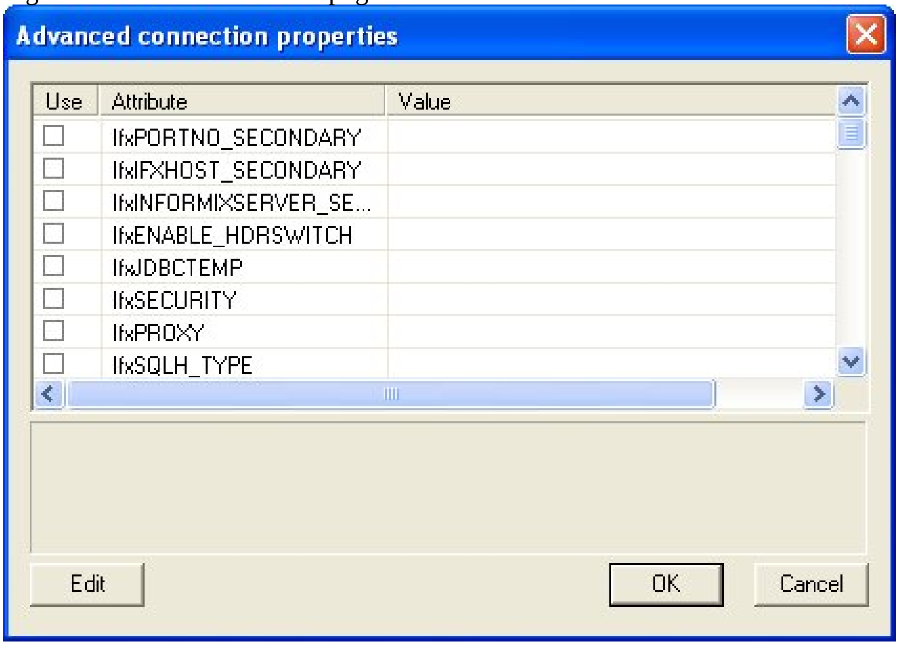
Password: ***************

- *Host* : This is the fully qualified hostname, or IP address, of the machine hosting the DBMS you wish to access, e.g., dbms-server.example.com, or 192.168.155.123. Any hostname which will be resolved by your local DNS is acceptable.
- *Port* : This is the port that Informix is listening on
- *Database* : This is the name of the database

- *Database Server* : This is the name of the database server
- *Login ID* : This is a valid user on for the Informix Database
- *Password* : Enter valid password and click next to verify that all settings are correct or uncheck check box to delay this to a later stage.

The advanced button displays additional optional parameters that can be configured:

Figure 5.41. EEWininfconf06.png



Advanced connection properties

Use	Attribute	Value
□	IfxPORTNO_SECONDARY	
□	IfxIFXHOST_SECONDARY	
□	IfxINFORMIXSERVER_SE...	
□	IfxENABLE_HDRSWITCH	
□	IfxJDBCTEMP	
□	IfxSECURITY	
□	IfxPROXY	
□	IfxSQLH_TYPE	

Table 5.2.

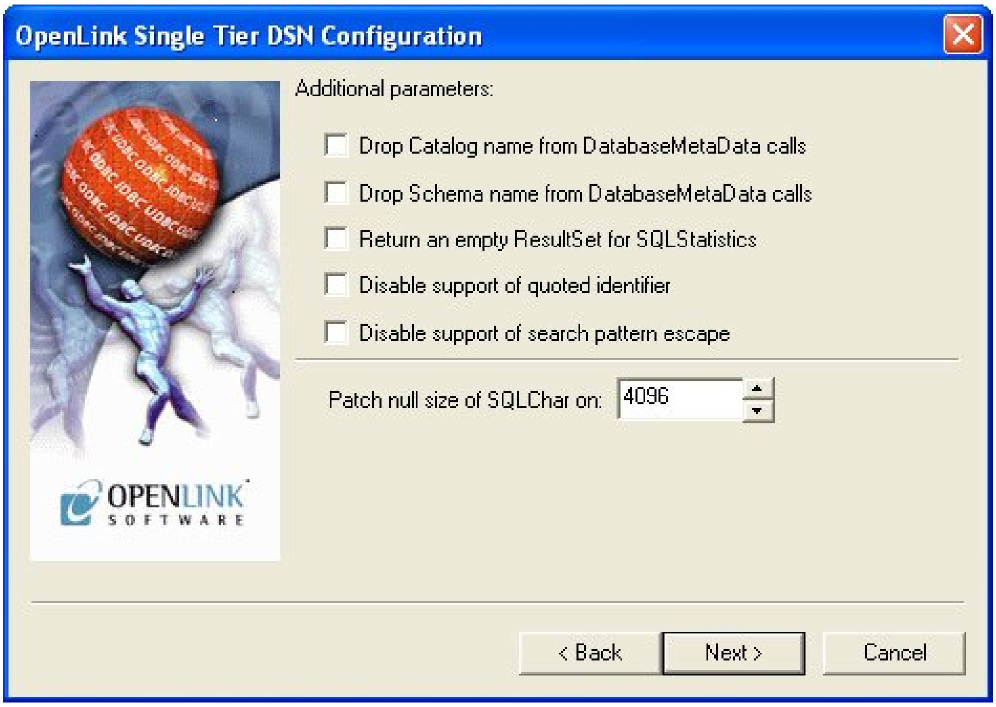
IfxPORTNO_SECONDARY	Specifies the port number of the secondary database server in an HDR pair. The port number is listed in the /etc/services file.
IfxIFXHOST_SECONDARY	Sets the secondary host name or host IP address for HDR connection redirection
IfxINFORMIXSERVER_SECONDARY	Specifies the secondary database server in an HDR pair to which an explicit or implicit connection is made by a client application if the primary database server is unavailable
IfxENABLE_HDRSWITCH	When set to 'true', secondary server properties are used to connect to the secondary server in an HDR pair, if the primary server is unavailable.
IfxJDBCTEMP	Specifies where temporary files for handling smart large objects are created. You must supply an absolute pathname.
IfxSECURITY	Uses 56-bit encryption to send the password to the server. If 'PASSWORD' is specified, the user-provided password is encrypted using 56-bit encryption when it is passed from the client to the database server. There is no default setting. The setting is supported in the 7.31, 8.3 and later, and 9.x and later versions of the Informix database server.
IfxPROXY	Specifies an HTTP proxy server.
IfxSQLH_TYPE	When set to 'FILE', specifies that database information (such as host-name, port-number, user, and password) is specified in an sqlhosts file. When set to 'LDAP', specifies that this information is specified in an LDAP server
IfxSQLH_FILE	Example: http://host-name:port-number/sqlhosts.ius or file://D:/local/myown/sqlhosts.ius
IfxLDAP_URL	Example: ldap://host-name:port-number
IfxLDAP_IFXBASE	Example: Informix-base-DN
IfxLDAP_USER	
IfxLDAP_PASSWD	

IfxSQLH_LOC	
IfxFET_BUF_SIZE	Overrides the default setting for the size of the fetch buffer for all data except large objects. The default size is 4096 bytes.
IfxBIG_FET_BUF_SIZE	In IBM Informix Extended Parallel Server, Version 8.4, overrides the default size of the tuple buffer and allows it to be increased up to 2GB.
IfxUSEV5SERVER	When set to 1, specifies that the Java program is connecting to an IBM Informix OnLine 5.x or IBM Informix SE 5.x or IBM Informix SE 7.x database server. This environment variable is mandatory if you are connecting to an IBM Informix OnLine 5.x or IBM Informix SE 5.x or IBM Informix SE 7.x database server.
IfxLOBCACHE	Determines the buffer size for large object data that is fetched from the database server Possible values are: v A number greater than 0. The maximum number of bytes is allocated in memory to hold the data. If the data size exceeds the LOBCACHE value, the data is stored in a temporary file; if a security violation occurs during creation of this file, the data is stored in memory. v Zero (0). The data is always stored in a file. If a security violation occurs, the driver makes no attempt to store the data in memory. v A negative number. The data is always stored in memory. If the required amount of memory is not available, an error occurs.
IfxIFX_USEPUT	When set to 1, enables bulk inserts.
IfxDELIMIDENT	When set to true, specifies that strings set off by double quotes are delimited identifiers
IfxINFORMIXSTACKSIZE	Specifies the stack size, in kilobytes, that the database server uses for a particular client session
IfxDBSPACETEMP	Specifies the dbspaces in which temporary tables are built
IfxDB_LOCALE	Specifies the locale of the databaseIBM Informix JDBC Driver uses this variable to perform code-set conversion between Unicode and the database locale. Together with the CLIENT_LOCALE variable, the database server uses this variable to establish the server processing locale. The DB_LOCALE and CLIENT_LOCALE values must be the same, or their code sets must be convertible.
IfxCLIENT_LOCALE	Specifies the locale of the client that is accessing the database Provides defaults for user-defined formats such as the GL_DATE format User-defined data types can use it for code-set conversion. Together with the DB_LOCALE variable, the database server uses this variable to establish the server processing locale. The DB_LOCALE and CLIENT_LOCALE values must be the same, or their code sets must be convertible.
IfxDBDATE	Specifies the end-user formats of values in DATE columns Supported for backward compatibility; GL_DATE is preferred.
IfxGL_DATE	Specifies the end-user formats of values in DATE columns This variable is supported in Informix database server versions 7.2x, 8.x, 9.x, and 10.x.
IfxDBCENTURY	Enables you to specify the appropriate expansion for one- or two-digit year DATE values
IfxSTMT_CACHE	When set to 1, enables the use of the shared-statement cache in a session. This feature can reduce memory consumption and speed query processing among different user sessions. The driver does not use this variable; it just passes the value to the server.
IfxNODEFDAC	When set to YES, prevents default table and routine privileges from being granted to the PUBLIC user when a new table or routine is created in a database that is not ANSI compliant. Default is NO.
IfxDBTEMP	Specifies the full pathname of the directory into which you want IBM Informix Enterprise Gateway products to place their temporary files and temporary tables. The driver does not use this variable; it just passes the value to the server.
IfxPSORT_DBTEMP	Specifies one or more directories to which the database server writes the temporary files it uses when performing a sort

IfxPSORT_NPROCS	Enables the database server to improve the performance of the parallel-process sorting package by allocating more threads for sorting
IfxDBUPSPACE	Specifies the amount of system disk space that the UPDATE STATISTICS statement can use when it simultaneously constructs multiple-column distributions
IfxPDQPRIORITY	Determines the degree of parallelism used by the database server
IfxIFX_DIRECTIVES	Determines whether the optimizer allows query optimization directives from within a query. This variable is set on the client. The driver does not use this variable; it just passes the value to the server.
IfxIFX_EXTDIRECTIVES	Specifies whether the query optimizer allows external query optimization directives from the sysdirectives system catalog table to be applied to queries in existing applications. The default is OFF. Possible values: ON External optimizer directives accepted OFF External optimizer directives not accepted 1 External optimizer directives accepted 0 External optimizer directives not accepted
IfxOPTCOMPIND	Specifies the join method that the query optimizer uses
IfxINFORMIXCONRETRY	Specifies the maximum number of additional connection attempts that can be made to each database server by the client during the time limit specified by the value of INFORMIXCONTIME
IfxINFORMIXCONTIME	Sets the timeout period for an attempt to connect to the database server. If a connection attempt does not succeed in this time, the attempt is aborted and a connection error is reported. The default value is 0 seconds. This variable adds timeouts for blocking socket methods and for socket connections.
IfxINFORMIXOPCACHE	Specifies the size of the memory cache for the staging-area blobspace of the client application
IfxPLCONFIG	Specifies the name of the configuration file used by the high-performance loader
IfxPATH	Specifies the directories that should be searched for executable programs
IfxPLOAD_LO_PATH	Specifies the pathname for smart-large-object handles (which identify the location of smart large objects such as BLOB, CLOB, and BOOLEAN data types). The driver does not use this variable; it just passes the value to the server.
IfxOPT_GOAL	Specifies the query performance goal for the optimizer. Set this variable in the user environment before you start an application. The driver does not use this variable; it just passes the value to the server.
IfxDBANSIWARN	When set to 1, checks for Informix extensions to ANSI-standard syntax
IfxIFX_CODESETLOB	The value of this variable determines whether code-set conversion is done in memory in or in temporary files. If set to 0, code-set conversion uses temporary files. If set to a value greater than 0, code-set conversion occurs in the memory of the client computer, and the value represents the number of bytes of memory allocated for the conversion.
IfxIFX_LOCK_MODE_WAIT	The default value is 0 (do not wait for the lock). Sets the value of Informix-specific variable IFX_LOCK_MODE_WAIT. Possible values: '-1' WAIT until the lock is released. '0' DO NOT WAIT, end the operation, and return with error. 'nn' WAIT for nn seconds for the lock to be released.
IfxIFX_ISOLATION_LEVEL	Sets the value of Informix-specific variable IFX_ISOLATION_LEVEL. Possible values: '1' - Dirty Read (equivalent to TRANSACTION_READ_UNCOMMITTED), '2' - Committed Read (equivalent to TRANSACTION_READ_COMMITTED), '3' - Cursor Stability (equivalent to TRANSACTION_READ_COMMITTED), '4' - Repeatable Read (equivalent to TRANSACTION_REPEATABLE_READ)

As indicated above the paramters of the options and preferences tabs are not required for a basic connection.

Figure 5.42. EEWininfconf07.png



Additional parameters:

□ Drop Catalog name from DatabaseMetaData calls

□ Drop Schema name from DatabaseMetaData calls

□ Return an empty ResultSet for SQLStatistics

□ Disable support of quoted identifier

□ Disable support of search pattern escape

Patch null size of SQLChar on: 4096

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.

- *Hide Login Dialog* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.

- *Read Only connection* - Specify whether the connection is to be "Read-only". Make sure the checkbox is unchecked to request a "Read/Write" connection.

- *Drop Catalog from Meta calls* - Enable this option to have the catalog name not appear for tables, views and procedures when requesting database meta-data.

- *Drop Schema from Meta calls* - Enable this option to have the schema-name not appear for tables, views and procedures when requesting database meta-data.

- *SQLStatistics disabled* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table (e.g. what indexes there are on it).

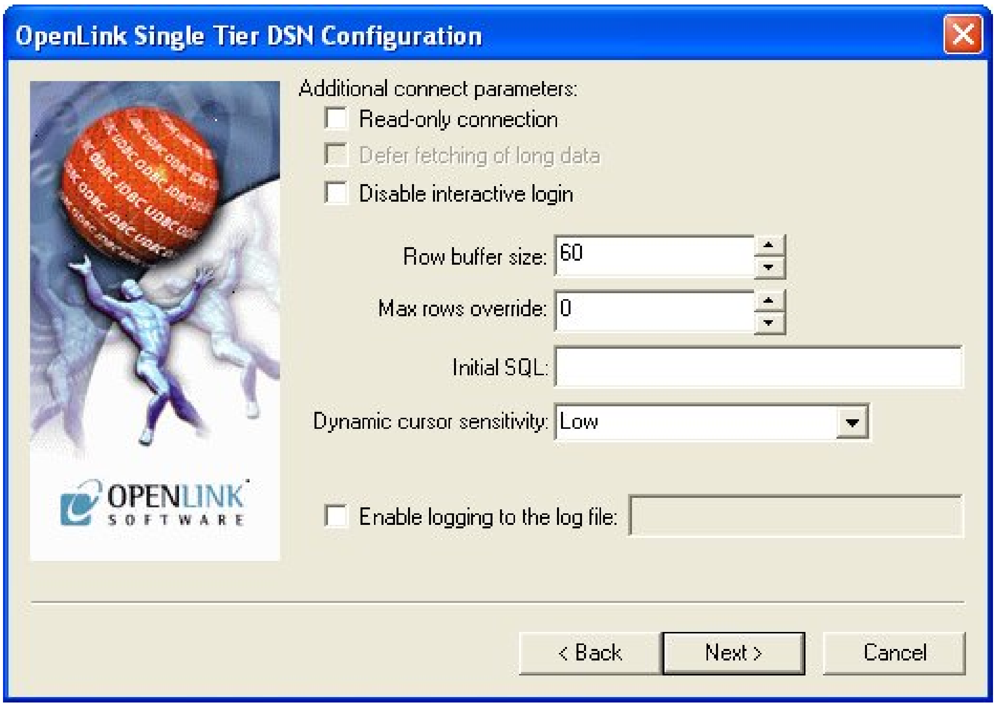
- *No support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if DBMS doesn't support quoted SQL like select * from "account"

- *No support of search string escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if DBMS doesn't support SQL escape patterns

- *Patch of NULL size of SQL_CHAR* - If set this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0 the driver uses the size returned by the database.

- *SQL_DBMS Name* - Manually override the SQLGetInfo(SQL_DBMS_NAME) response returned by the driver. This is know to be required for products like Microsoft InfoPath for which the return the value should be "SQL Server".

Figure 5.43. EEWininfconf08.png



OpenLink Single Tier DSN Configuration

Additional connect parameters:

□ Read-only connection

□ Defer fetching of long data

□ Disable interactive login

Row buffer size: 60

Max rows override: 0

Initial SQL:

Dynamic cursor sensitivity: Low

□ Enable logging to the log file:

- *Initialization SQL* - Lets you specify a file containing SQL statements that will be run against the database upon connection, automatically.

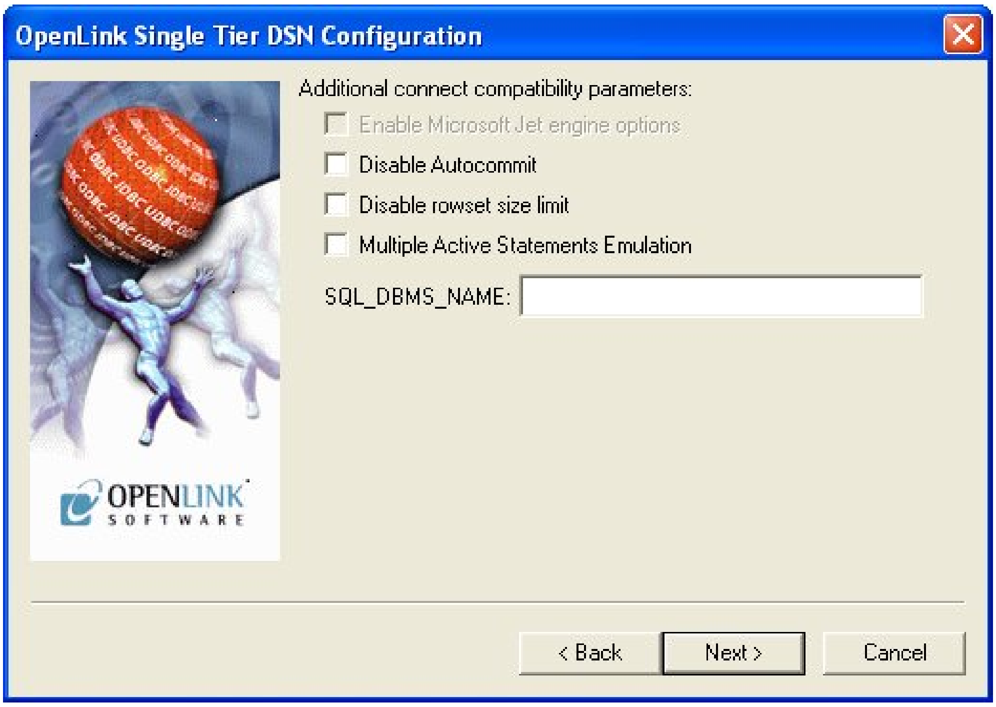
- *Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows don't appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate script for the target database.

- *MaxRows Override* - Allows you to define a limit on the maximum number of rows to returned from a query. The default value of 0 means no limit.

- *Defer fetching of long data* - Defer fetching of LONG (BINARY, BLOB etc.) data unless explicitly requested in query. This provides significant performance increase when fields in query does not include LONG data fields.

- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Figure 5.44. EEWininfconf09.png



OpenLink Single Tier DSN Configuration

Additional connect compatibility parameters:

□ Enable Microsoft Jet engine options

□ Disable Autocommit

□ Disable rowset size limit

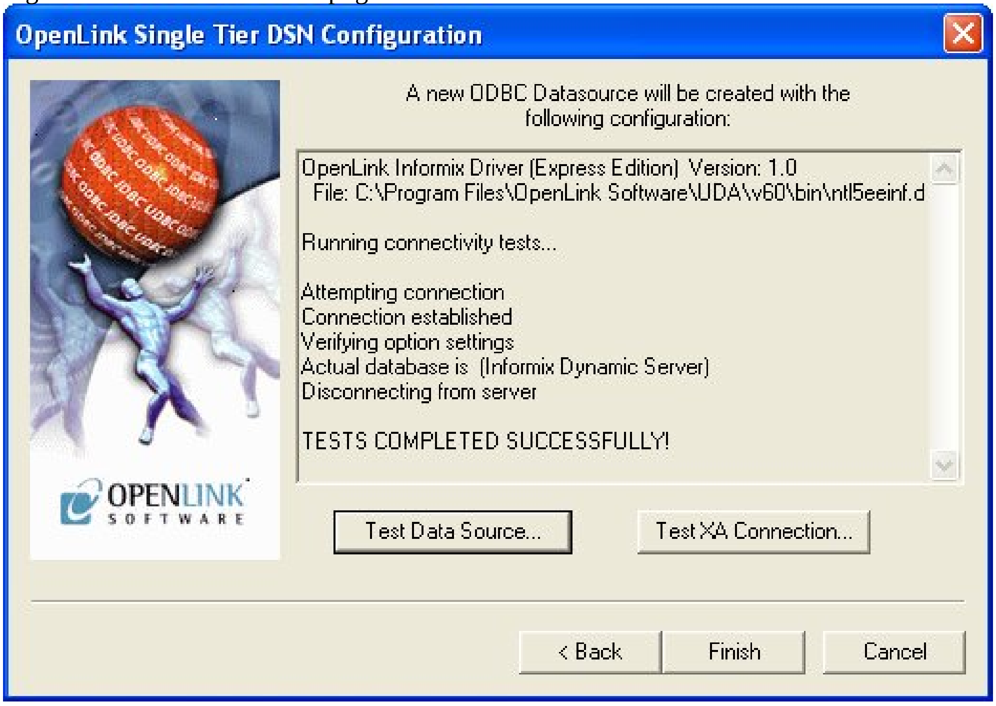
□ Multiple Active Statements Emulation

SQL_DBMS_NAME:

- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Lite Driver. The default mode is AutoCommit mode (box unchecked).
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset is generated from an erroneous query is very large. The limit is normally never reached.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Click on the *Test Data Source*button to verify successful connection can be made to the database.

Figure 5.45. EEWininfconf10.png



OpenLink Single Tier DSN Configuration

A new ODBC Datasource will be created with the following configuration:

```
OpenLink Informix Driver (Express Edition)  Version: 1.0
  File: C:\Program Files\OpenLink Software\UDA\v60\bin\ntl5eeinf.d

Running connectivity tests...

Attempting connection
Connection established
Verifying option settings
Actual database is  (Informix Dynamic Server)
Disconnecting from server

TESTS COMPLETED SUCCESSFULLY!
```

7 Chapter 6. OpenLink ODBC Driver for Ingres (Express Edition)

Table of Contents

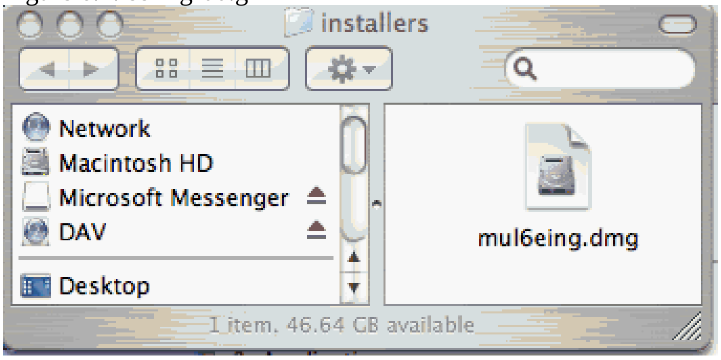
- OpenLink ODBC Driver for Ingres (Express Edition) for Mac OS X
  - Installation Guide
  - Configuration
- OpenLink ODBC Driver for Ingres (Express Edition) for Windows
  - Installation
  - Configuration

7.1 OpenLink ODBC Driver for Ingres (Express Edition) for Mac OS X

7.1.1 Installation Guide

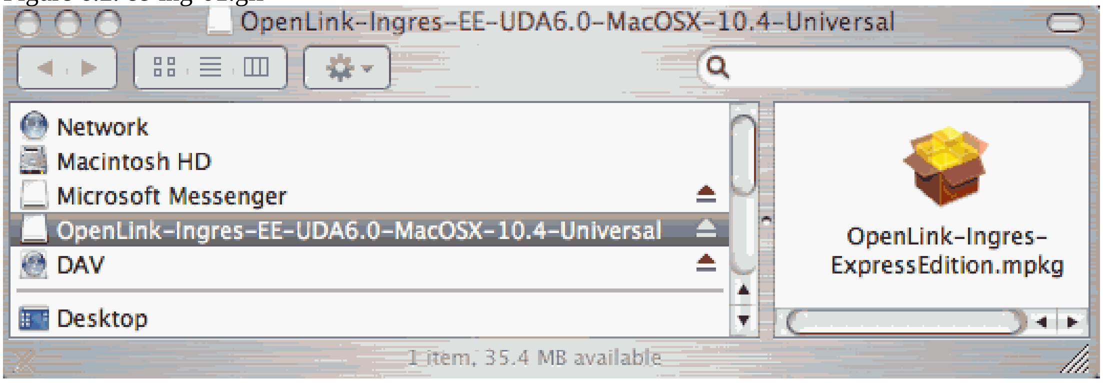
The OpenLink ODBC Driver for Ingres (Express Edition) is distributed as a Disk image (DMG) file. Simply double click on the disk image 'mul6eing.dmg' to extract the installer mpkg file:

Figure 6.1. ee-ing-00.gif



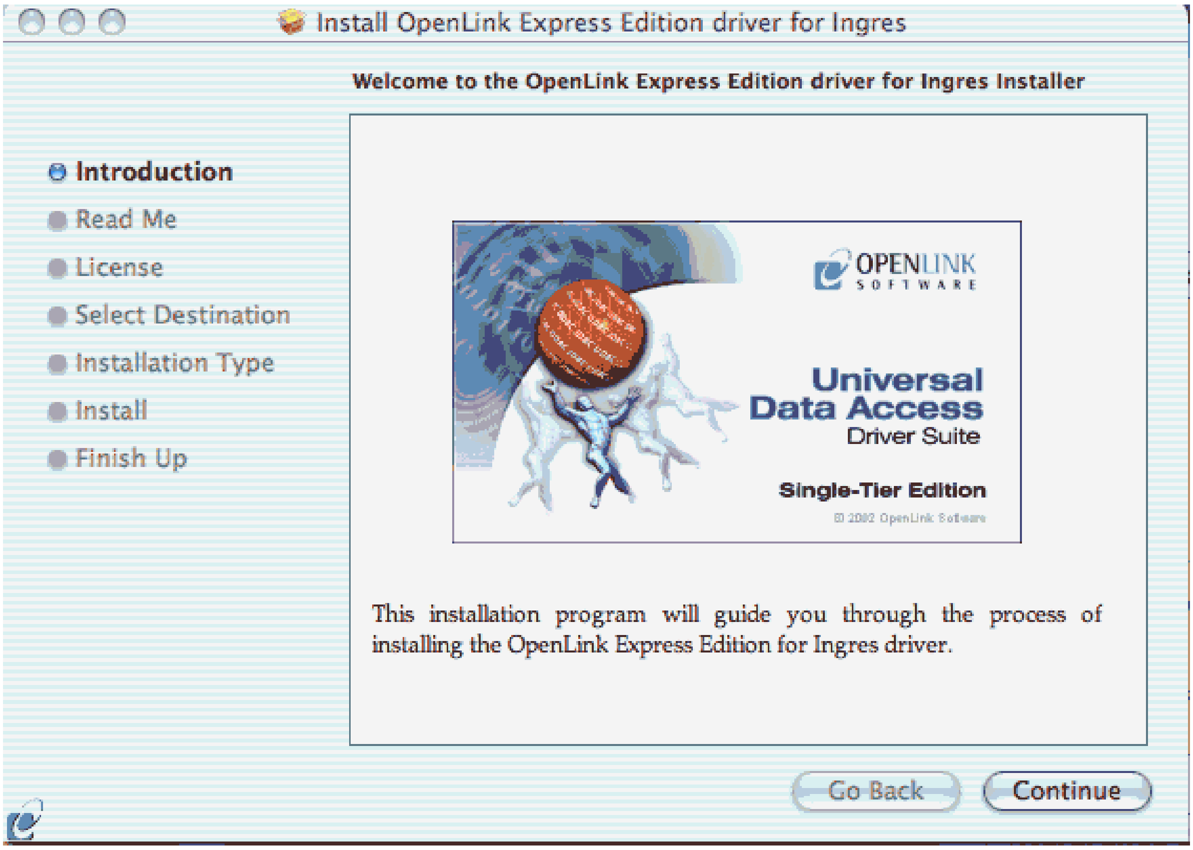
Double click on the mpkg file to run the installer and following the on screen instriuction as indicated below to complete the installation:

Figure 6.2. ee-ing-01.gif


OpenLink-Ingres-EE-UDA6.0-MacOSX-10.4-Universal
Network
Macintosh HD
Microsoft Messenger
OpenLink-Ingres-EE-UDA6.0-MacOSX-10.4-Universal
DAV
Desktop
OpenLink-Ingres-ExpressEdition.mpkg
1 item, 35.4 MB available

Installer Welcome Dialog for the OpenLink ODBC Driver for Ingres (Express Edition):

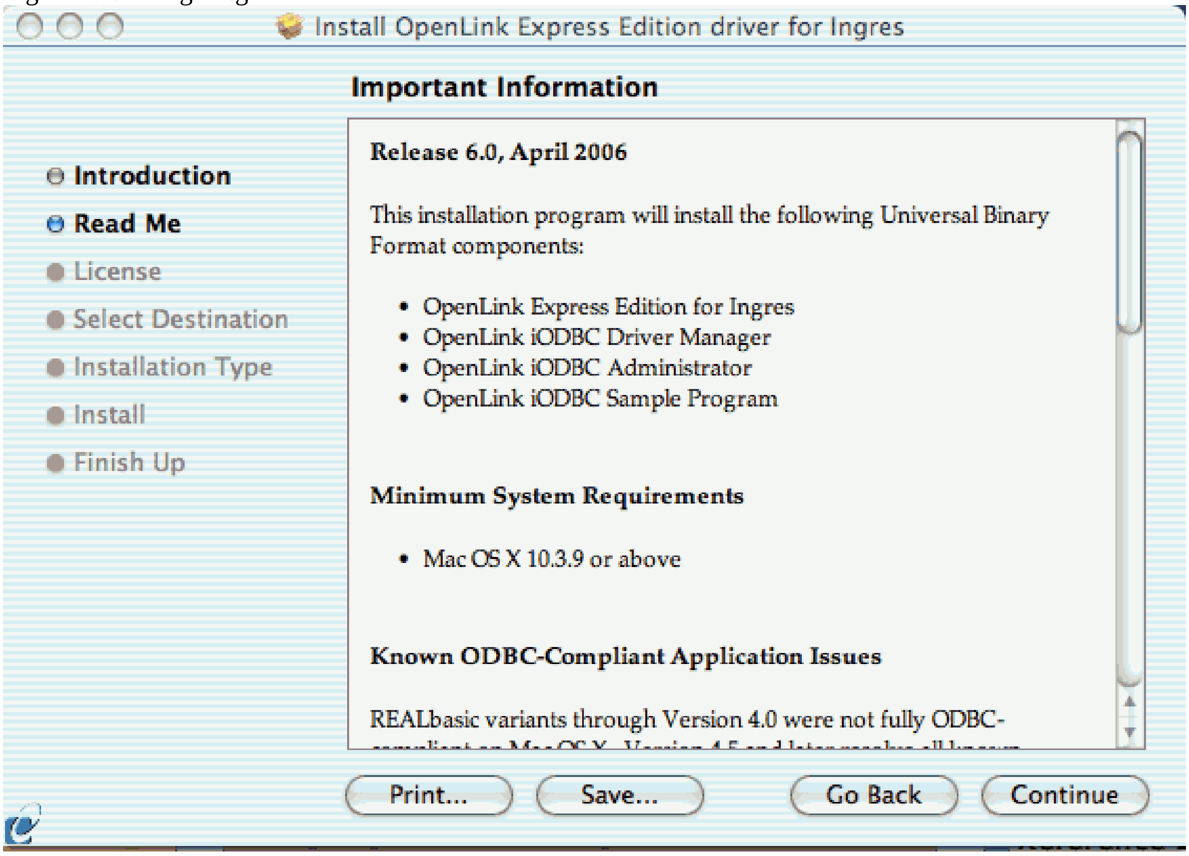
Figure 6.3. ee-ing-02.gif



This installation program will guide you through the process of installing the OpenLink Express Edition for Ingres driver.

Please review the readme file for installation requirements and known issues:

Figure 6.4. ee-ing-03.gif



Release 6.0, April 2006

This installation program will install the following Universal Binary Format components:

- OpenLink Express Edition for Ingres
- OpenLink iODBC Driver Manager
- OpenLink iODBC Administrator
- OpenLink iODBC Sample Program

Minimum System Requirements

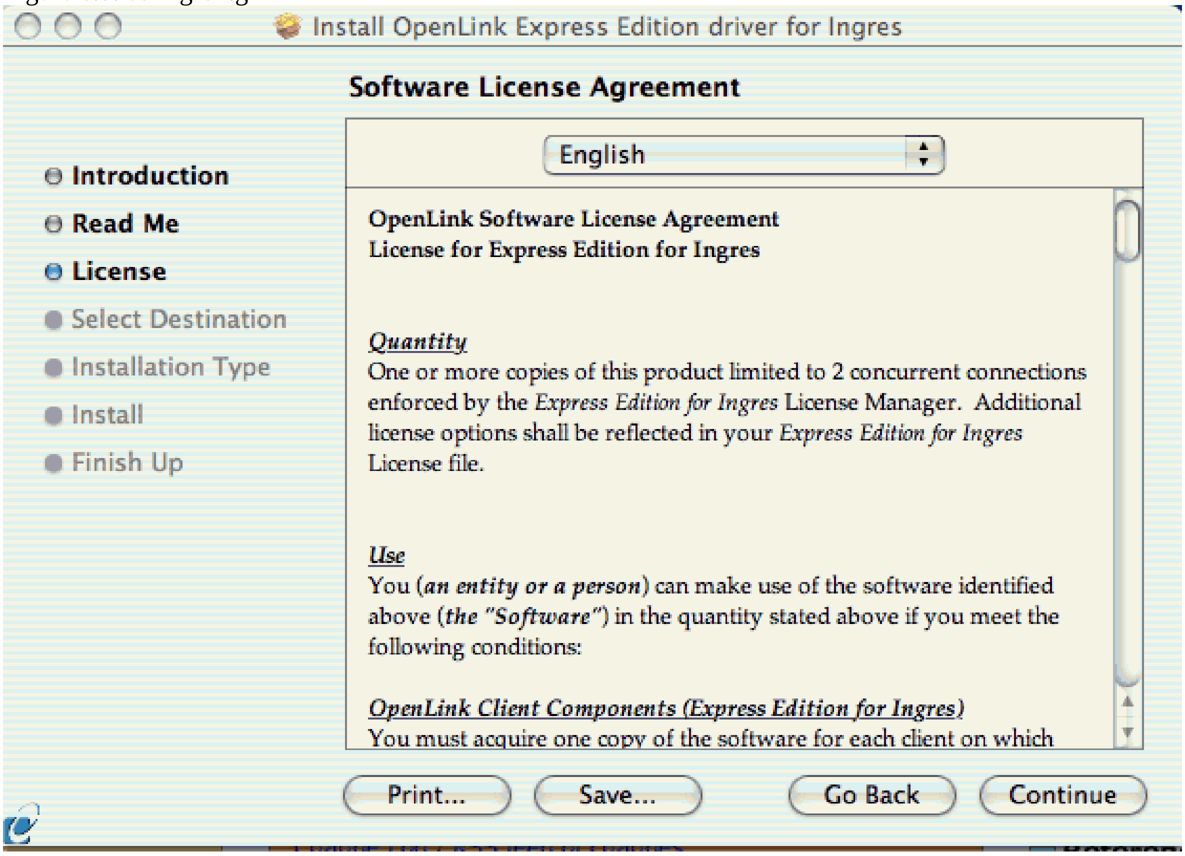
- Mac OS X 10.3.9 or above

Known ODBC-Compliant Application Issues

REALbasic variants through Version 4.0 were not fully ODBC-

Please read the software license agreement before continuing your installation:

Figure 6.5. ee-ing-04.gif



Software License Agreement

OpenLink Software License Agreement
License for Express Edition for Ingres

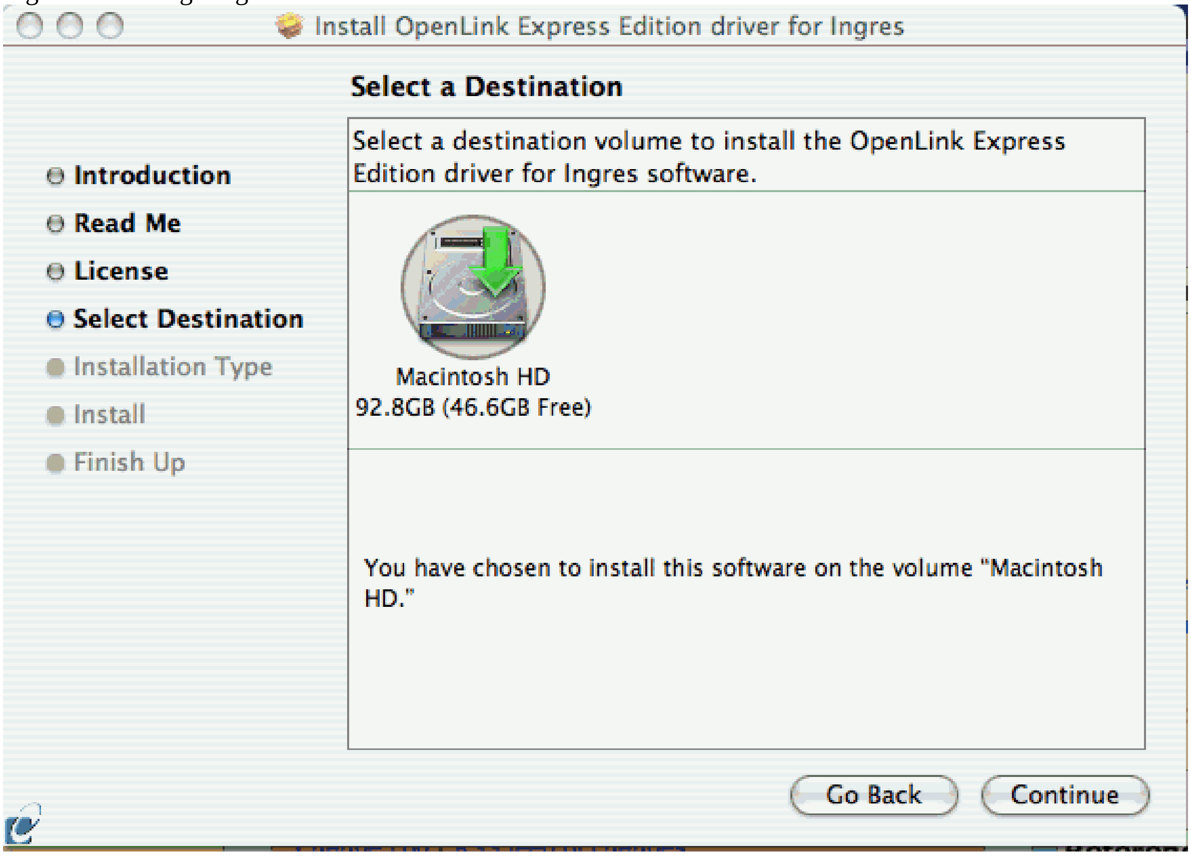
Quantity
One or more copies of this product limited to 2 concurrent connections enforced by the *Express Edition for Ingres* License Manager. Additional license options shall be reflected in your *Express Edition for Ingres* License file.

Use
You (***an entity or a person***) can make use of the software identified above (***the "Software"***) in the quantity stated above if you meet the following conditions:

OpenLink Client Components (Express Edition for Ingres)
You must acquire one copy of the software for each client on which

Select destination volume for driver installation:

Figure 6.6. ee-ing-05.gif



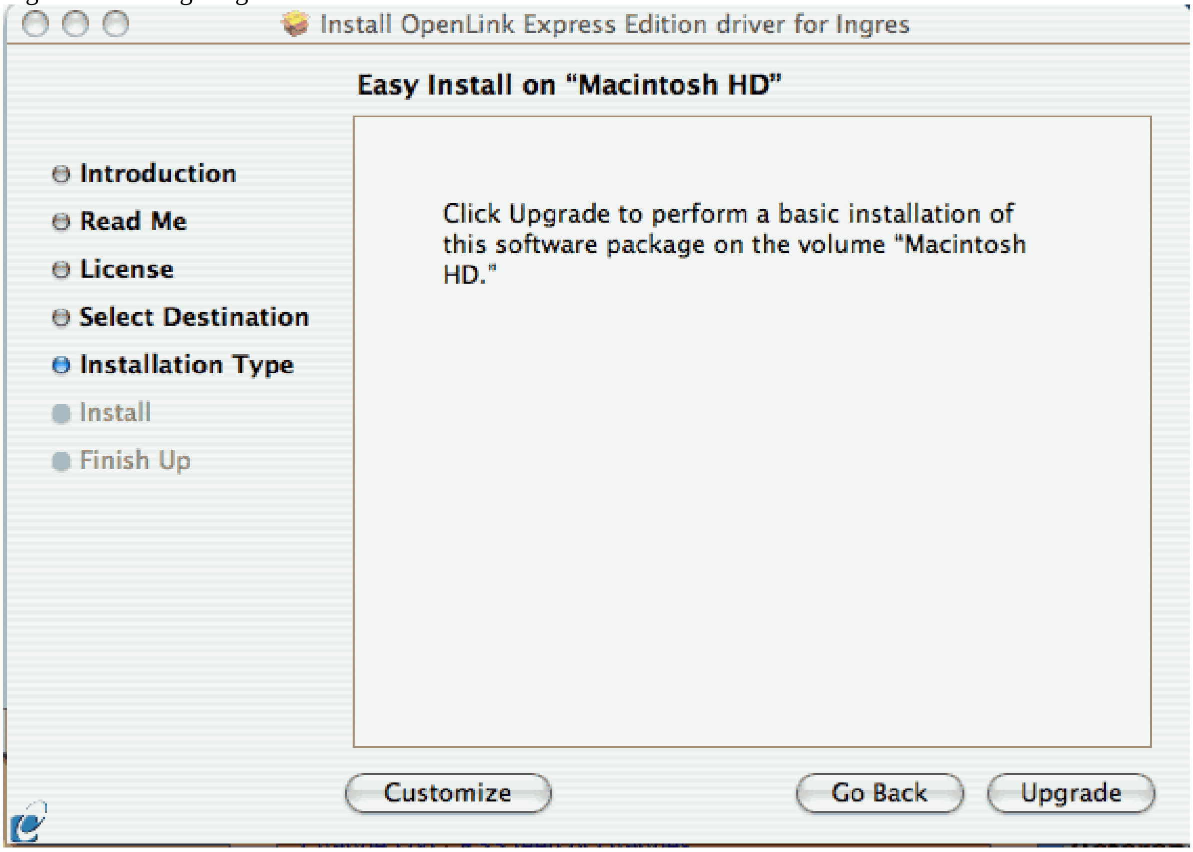
Select a Destination

Select a destination volume to install the OpenLink Express Edition driver for Ingres software.

You have chosen to install this software on the volume "Macintosh HD."

Choose to perform a custome or default installation of the driver:

Figure 6.7. ee-ing-06.gif

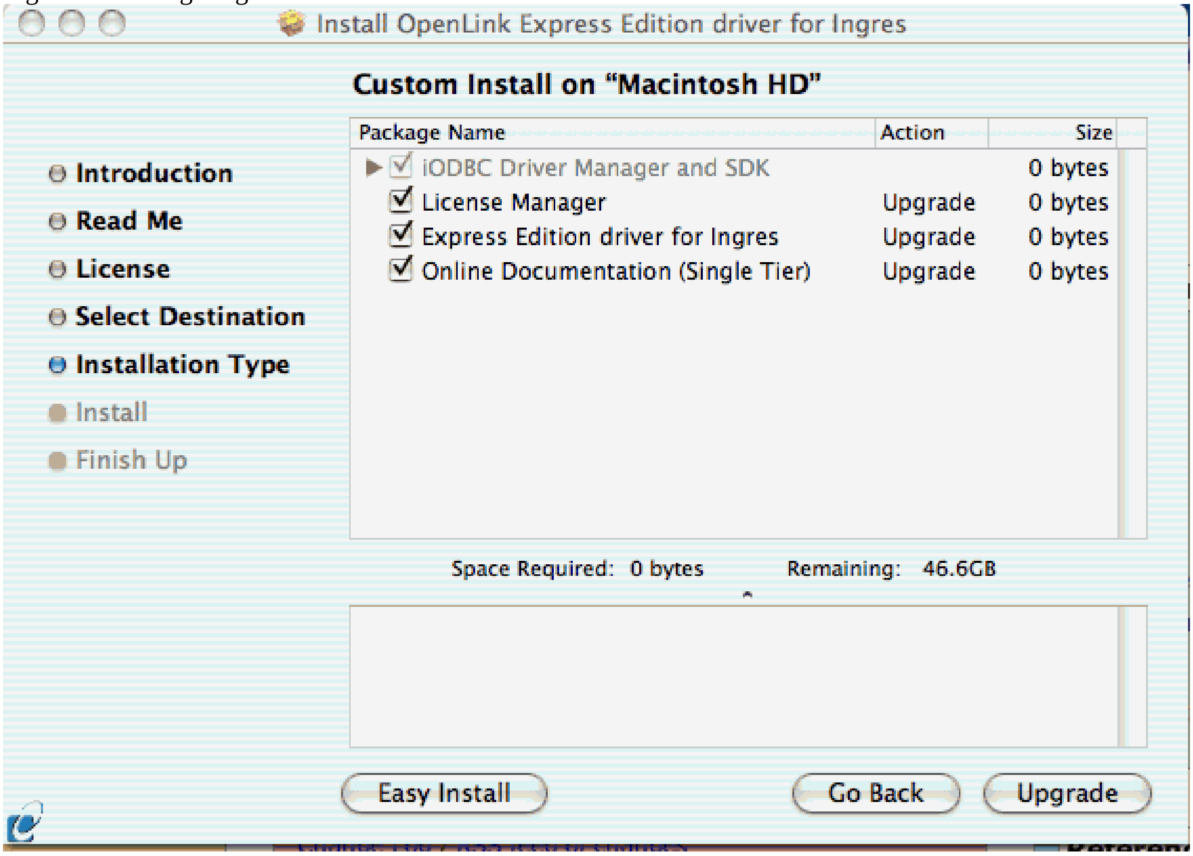


Easy Install on “Macintosh HD”

Click Upgrade to perform a basic installation of this software package on the volume "Macintosh HD."

If you chose the custom option select which of the components below are to be installed:

Figure 6.8. ee-ing-07.gif



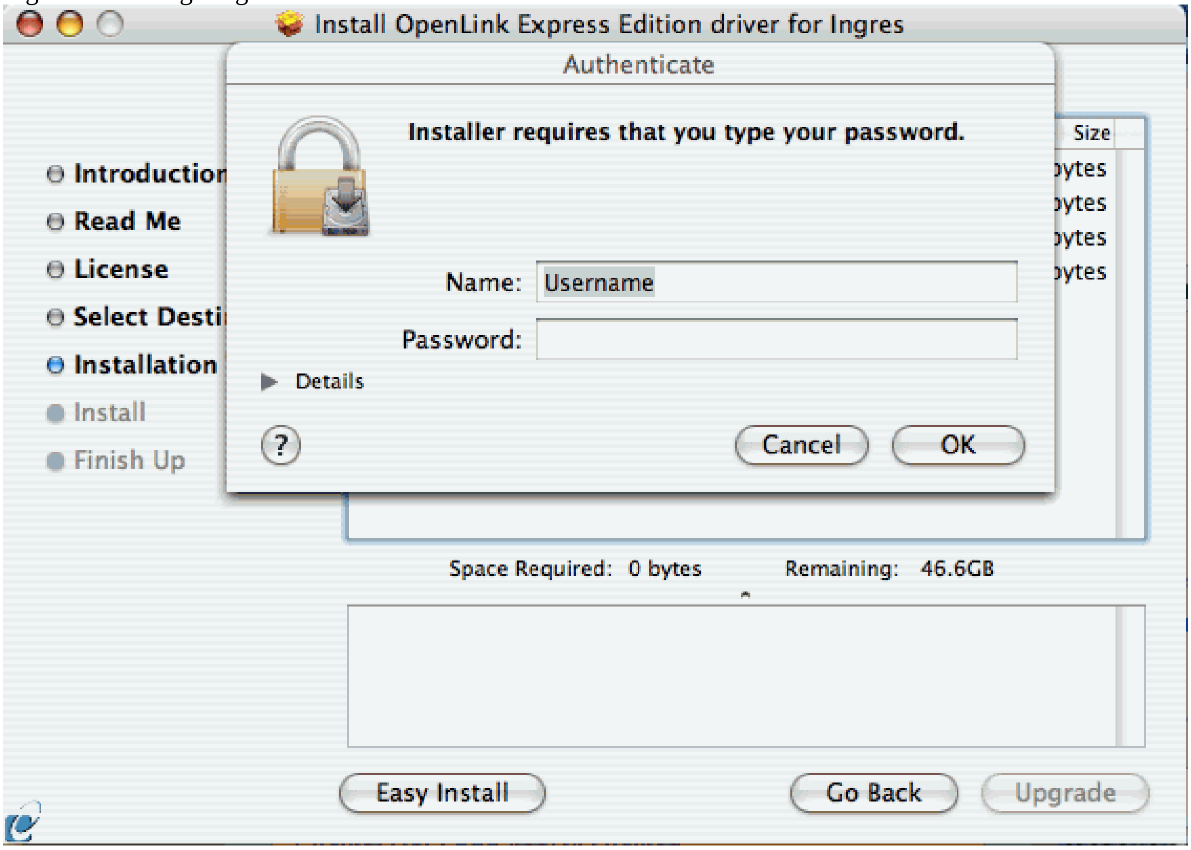
Custom Install on “Macintosh HD”

Package Name	Action	Size
▶ ☑ iODBC Driver Manager and SDK		0 bytes
☑ License Manager	Upgrade	0 bytes
☑ Express Edition driver for Ingres	Upgrade	0 bytes
☑ Online Documentation (Single Tier)	Upgrade	0 bytes

Space Required: 0 bytes   Remaining: 46.6GB

The Software must be installed as a user with Administrative privileges on the machine:

Figure 6.9. ee-ing-08.gif



Install OpenLink Express Edition driver for Ingres

Authenticate

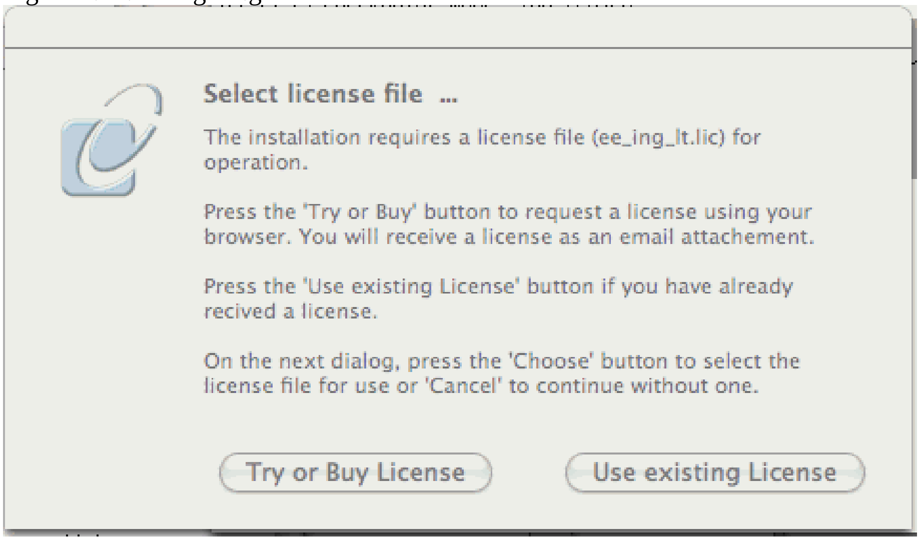
Installer requires that you type your password.

Name: Username

Password:

After the driver has been installed you will be prompted for a license file. If a license file already exists on the machine then select the 'use exisiting file' option. A trial (try) or full (buy) license can be obtain by selecting the 'try and buy' option which loads our online try and buy web page:

Figure 6.10. ee-ing-09.gif



Select license file ...

The installation requires a license file (ee_ing_lt.lic) for operation.

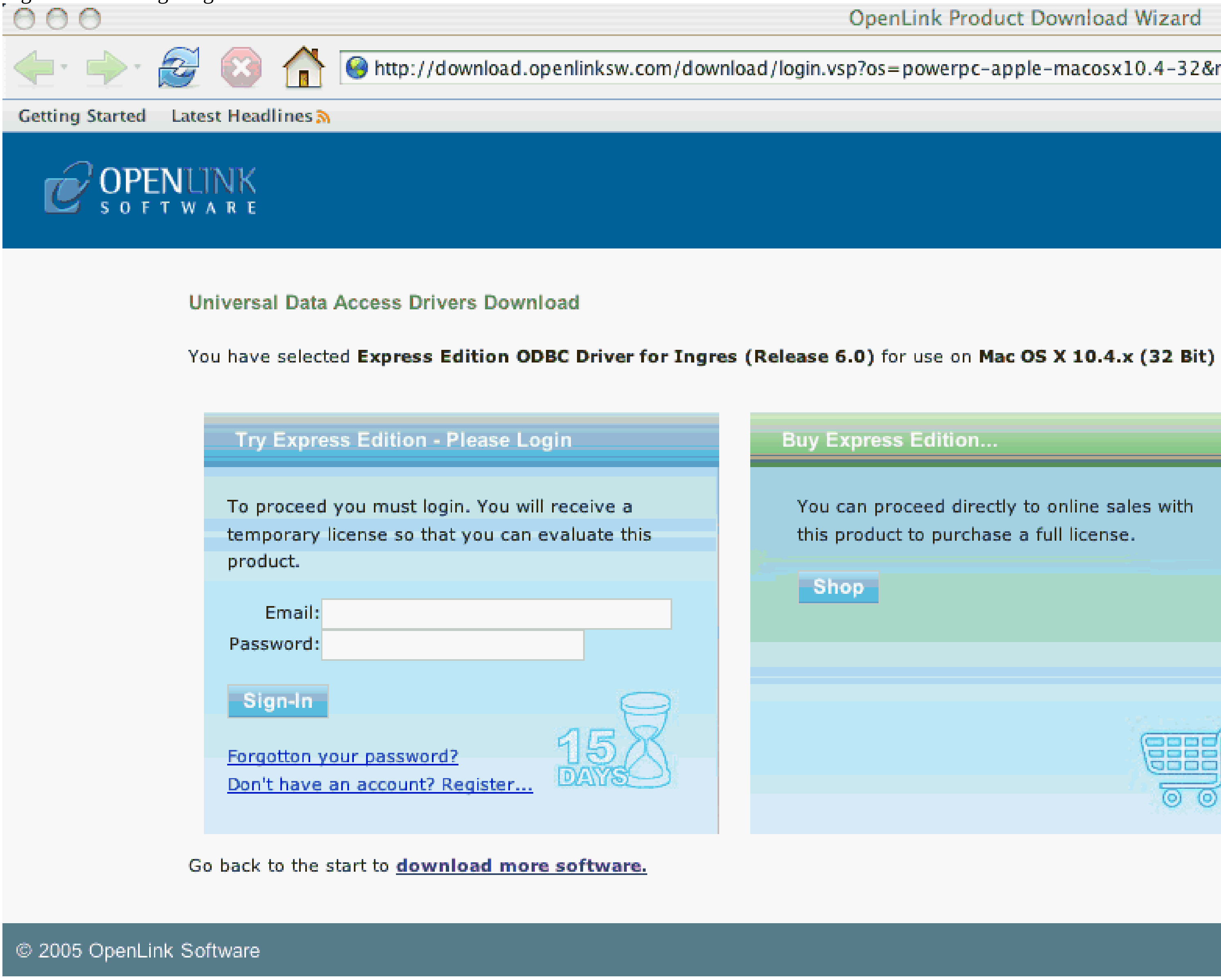
Press the 'Try or Buy' button to request a license using your browser. You will receive a license as an email attachement.

Press the 'Use existing License' button if you have already recived a license.

On the next dialog, press the 'Choose' button to select the license file for use or 'Cancel' to continue without one.

To obtain the trial license you must be a registered user on the OpenLink Web site and login with the username (e-mail address) and password for that user. Click on the 'Shop' link to visit our online shop cart to purchases a full license if required:

Figure 6.11. ee-ing-10.gif


OpenLink Product Download Wizard
http://download.openlinksw.com/download/login.vsp?os=powerpc-apple-macosx10.4-32&r
Getting Started
Latest Headlines
OPENLINK SOFTWARE

Universal Data Access Drivers Download

You have selected **Express Edition ODBC Driver for Ingres (Release 6.0)** for use on **Mac OS X 10.4.x (32 Bit)**

Try Express Edition - Please Login

To proceed you must login. You will receive a temporary license so that you can evaluate this product.

Email:

Password:

Sign-In
Forgotton your password?
Don't have an account? Register...
15 DAYS
Buy Express Edition...

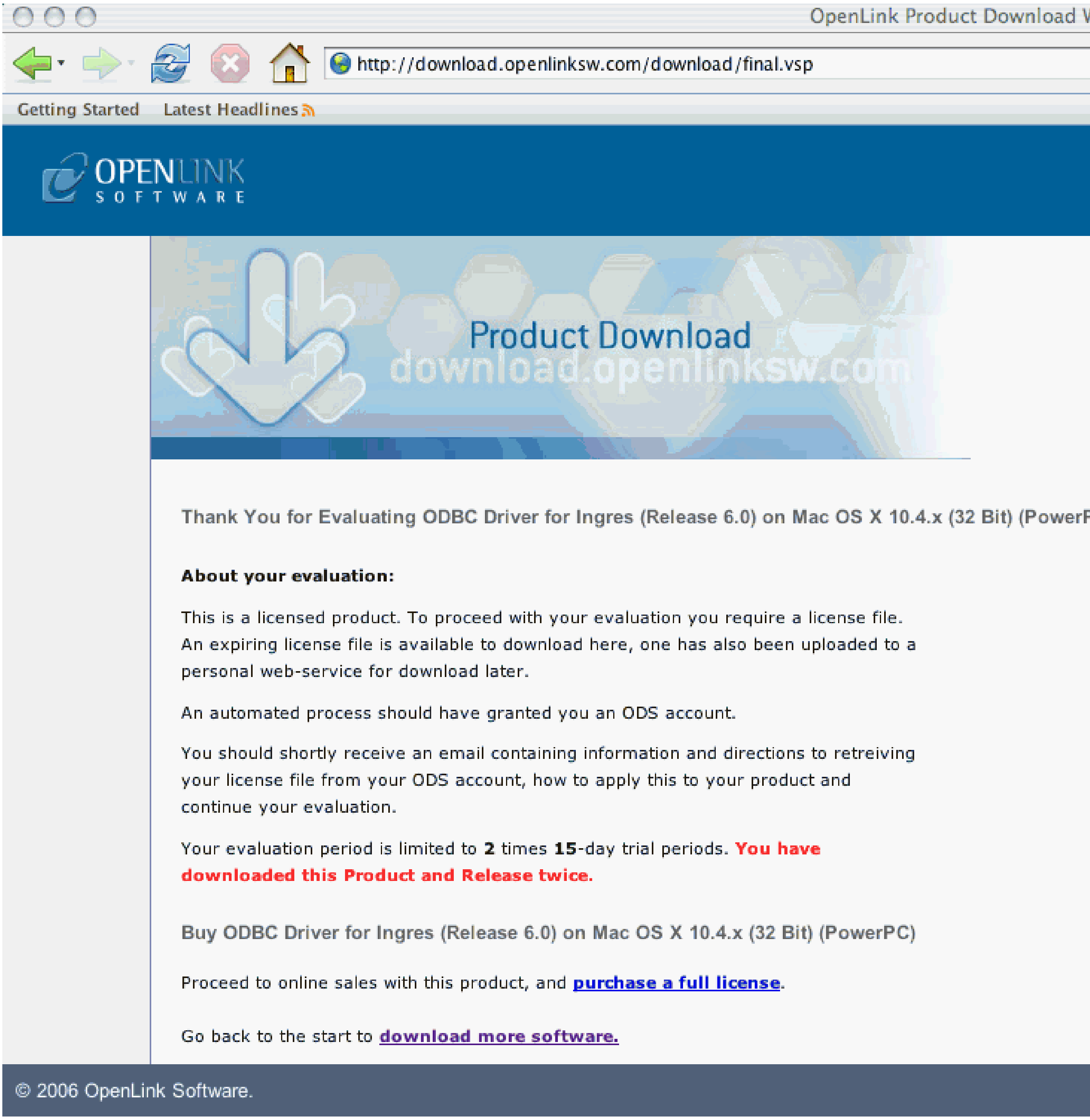
You can proceed directly to online sales with this product to purchase a full license.

Go back to the start to **download more software.**

© 2005 OpenLink Software

Click on the 'download license' button to obtain the license file immediately and save to your desktop. Alternatively an auto e-mail will be sent to the registered users e-mail address with a link to their OpenLink Data Space (ODS) where all trial and full license files will be stored in the Briefcase for download at a later date.

Figure 6.12. ee-ing-11.gif



Thank You for Evaluating ODBC Driver for Ingres (Release 6.0) on Mac OS X 10.4.x (32 Bit) (PowerP

About your evaluation:

This is a licensed product. To proceed with your evaluation you require a license file. An expiring license file is available to download here, one has also been uploaded to a personal web-service for download later.

An automated process should have granted you an ODS account.

You should shortly receive an email containing information and directions to retreiving your license file from your ODS account, how to apply this to your product and continue your evaluation.

Your evaluation period is limited to **2** times **15**-day trial periods. **You have downloaded this Product and Release twice.**

Buy ODBC Driver for Ingres (Release 6.0) on Mac OS X 10.4.x (32 Bit) (PowerPC)

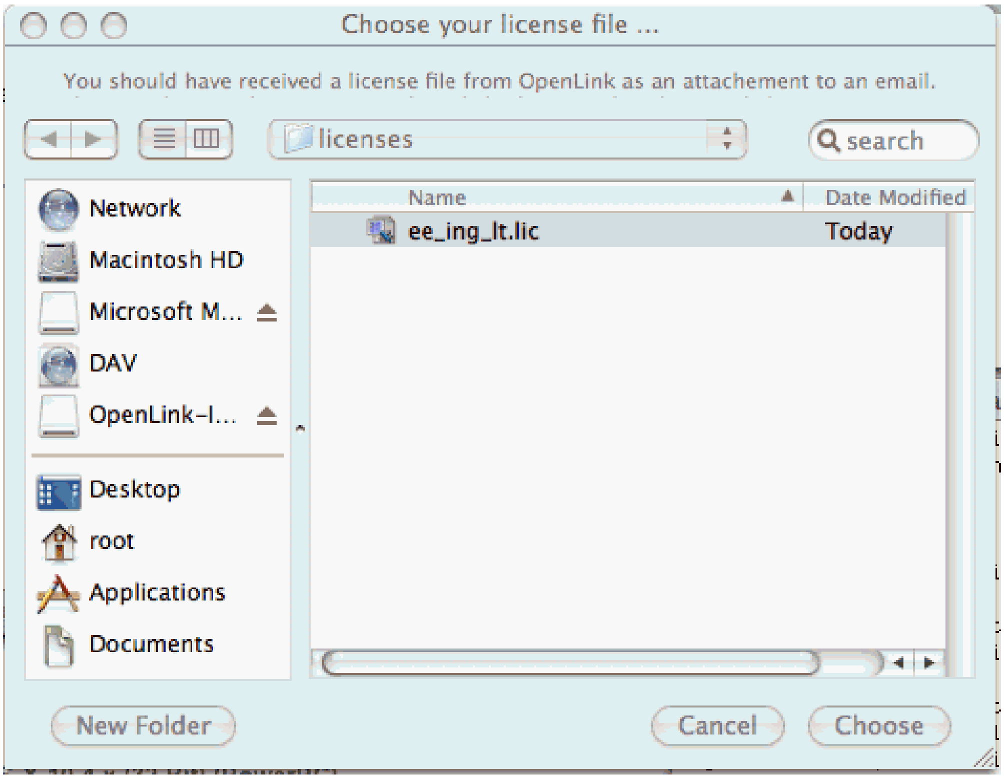
Proceed to online sales with this product, and **purchase a full license**.

Go back to the start to **download more software.**

© 2006 OpenLink Software.

Select the license file to be used for the installation:

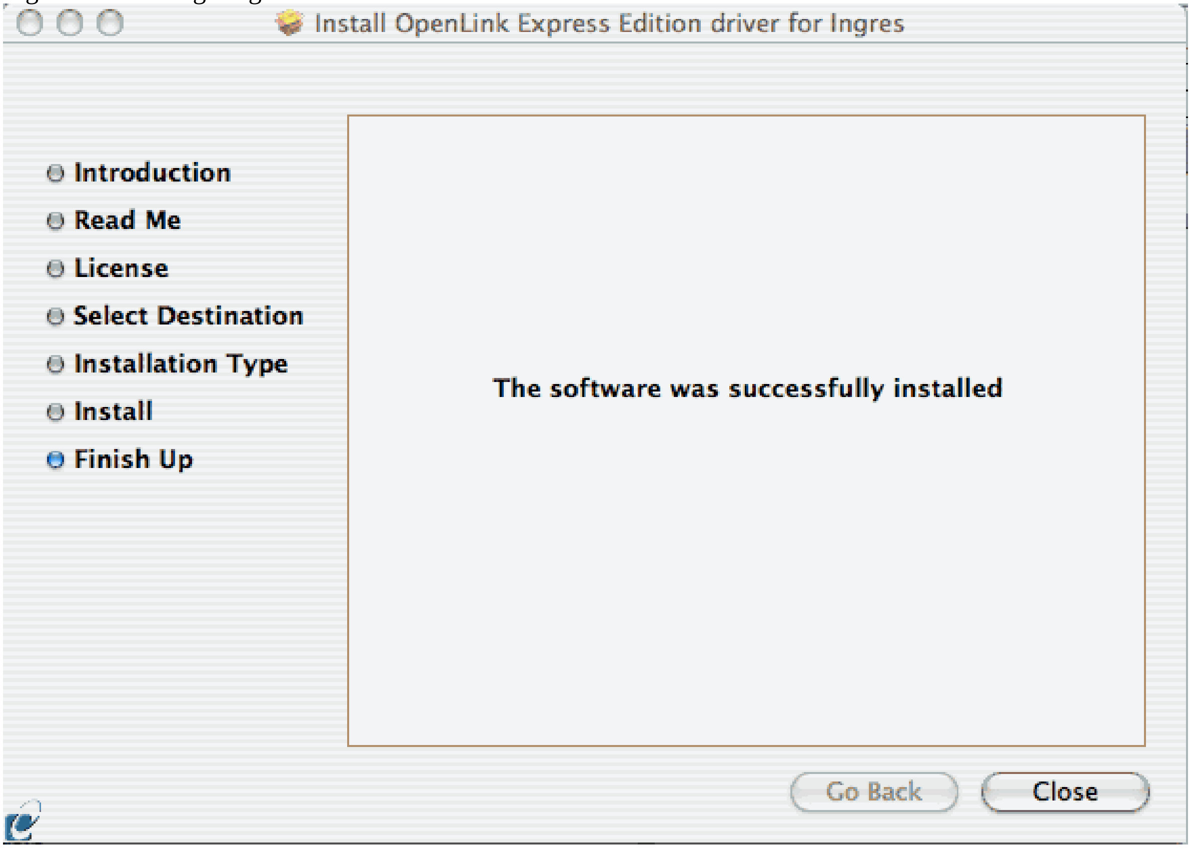
Figure 6.13. ee-ing-12.gif



You should have received a license file from OpenLink as an attachement to an email.

Installation is complete:

Figure 6.14. ee-ing-13.gif

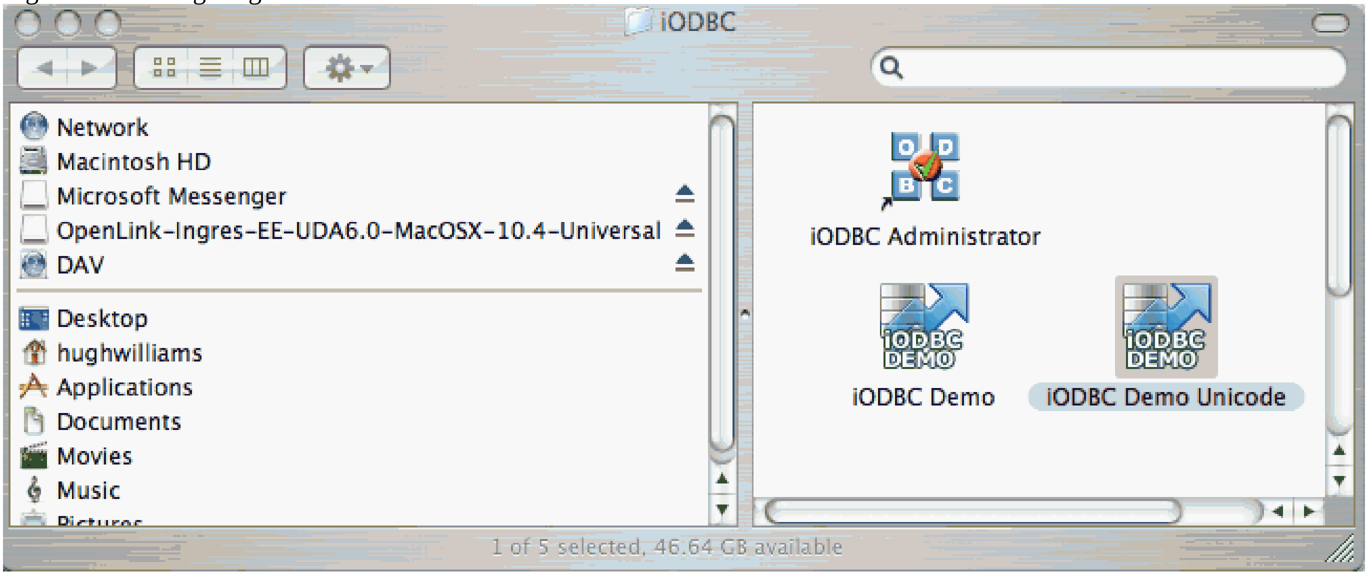


The software was successfully installed

7.1.2 Configuration

To configure an ODBC DSN, run the OpenLink iODBC Administrator located in the /Applications/iODBC folder:

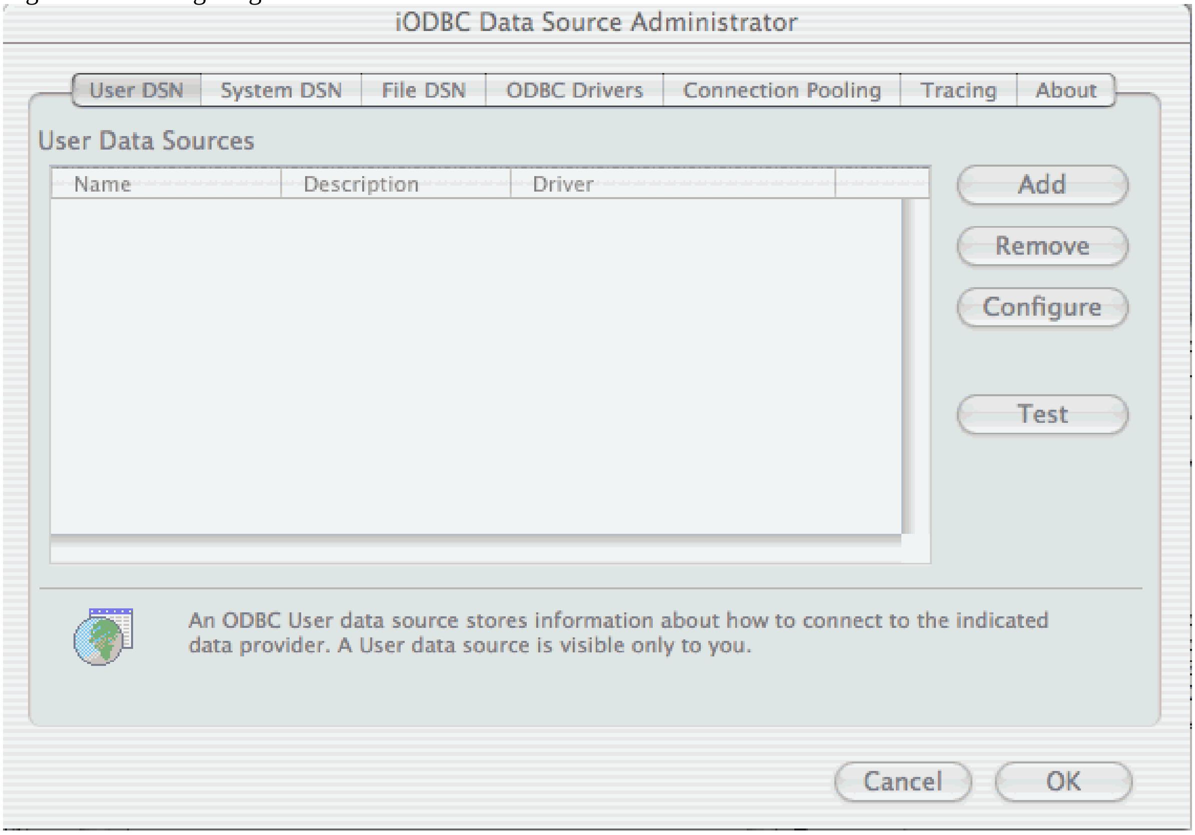
Figure 6.15. ee-ing-14.gif



1 of 5 selected, 46.64 GB available

Click on the add button to Choose the ODBC Driver the DSN should be created for:

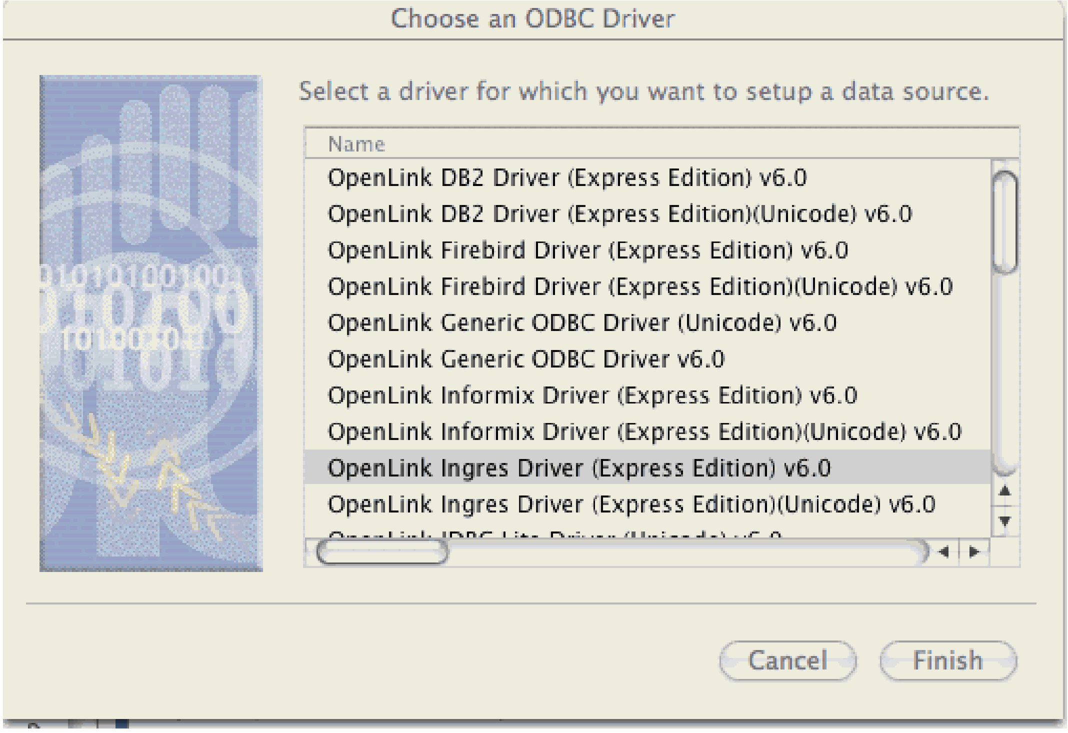
Figure 6.16. ee-ing-15.gif



An ODBC User data source stores information about how to connect to the indicated data provider. A User data source is visible only to you.

Choose the OpenLink Ingres Driver (Express Edition) v6.0 from the list of available drivers:

Figure 6.17. ee-ing-16.gif



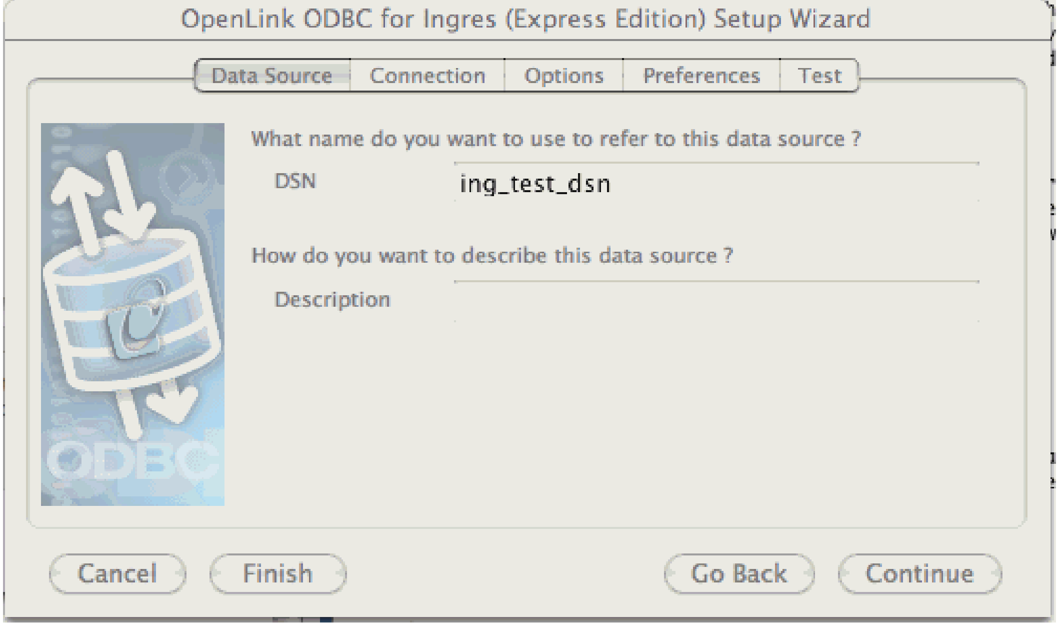
Choose an ODBC Driver

Select a driver for which you want to setup a data source.

```
Name
OpenLink DB2 Driver (Express Edition) v6.0
OpenLink DB2 Driver (Express Edition)(Unicode) v6.0
OpenLink Firebird Driver (Express Edition) v6.0
OpenLink Firebird Driver (Express Edition)(Unicode) v6.0
OpenLink Generic ODBC Driver (Unicode) v6.0
OpenLink Generic ODBC Driver v6.0
OpenLink Informix Driver (Express Edition) v6.0
OpenLink Informix Driver (Express Edition)(Unicode) v6.0
OpenLink Ingres Driver (Express Edition) v6.0
OpenLink Ingres Driver (Express Edition)(Unicode) v6.0
```

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 6.18. ee-ing-17.gif



OpenLink ODBC for Ingres (Express Edition) Setup Wizard

What name do you want to use to refer to this data source ?

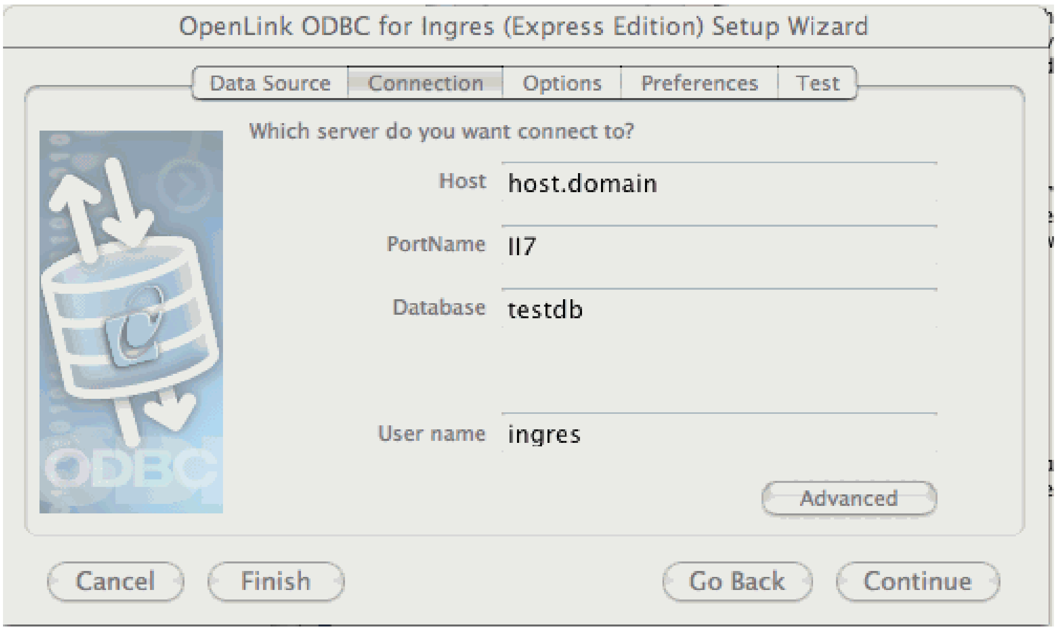
DSN: ing_test_dsn

How do you want to describe this data source ?

Description:

The Connection Tab requests the minimum paramters required to make a connection to the target database:

Figure 6.19. ee-ing-18.gif



OpenLink ODBC for Ingres (Express Edition) Setup Wizard

Which server do you want connect to?

Host: host.domain

PortName: II7

Database: testdb

User name: ingres

- *Hostname* - the hostname of the server on which the Ingres Node is running
- *PortName* - the Ingres instance Node name
- *Database* - the ase name of a valid database on the Node
- *Username* - the name of a valid Ingres user
- *Advanced* - additional optional configuration parameters:

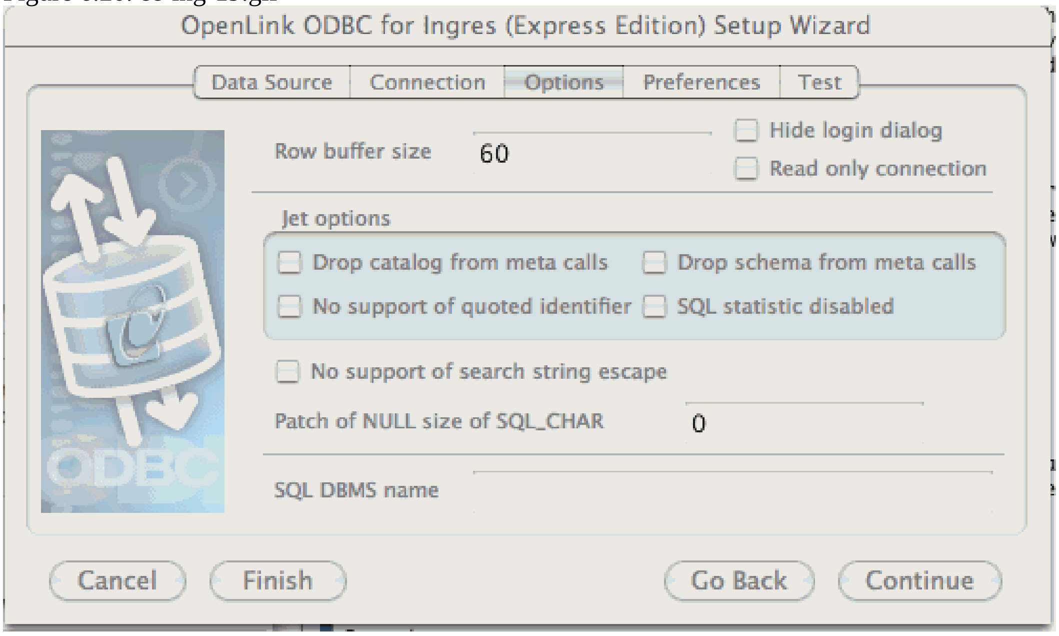
Table 6.1.

RoleName	Role used in DBMS.
GroupName	Group used in DBMS.
DbmsUser	User ID for the DBMS session (-u flag).
DbmsPassword	User's DBMS password.
ConnectionPool	Use pooled connection: 'off' or 'on'.
AutocommitMode	Autocommit cursor handling: 'dbms', 'single', 'multi'.
SelectLoops	Select loop processing: 'off' or 'on'.
CursorMode	Default cursor concurrency mode, which determines the concurrency of cursors that have no concurrency explicitly assigned. Available options are: 'dbms', 'update', 'readonly'.
VnodeUsage	Allows the JDBC application to control the portions of the vnode information that are used to establish the connection to the remote DBMS server. Available options are: 'connect', 'login'
CharEncode	Specifies the Java character encoding used for conversions between Unicode and character data types. Generally, the character encoding is determined automatically by the driver from the DAS installation character set. This property allows an alternate character encoding to be specified (if desired) or a valid character encoding to be used when the driver is unable to map the server's character set.
TimeZone	Specifies the Ingres timezone associated with the client's location. Corresponds to the Ingres environment variable II_TIMEZONE_NAME and is assigned the same values. This property is not used directly by the driver but is sent to the DBMS and affects the processing of dates.
DecimalChar	Specifies the character to be used as the decimal point in numeric literals. Corresponds to the Ingres environment variable II_DECIMAL and is assigned the same values. This property is not used directly by the driver but is sent to the DBMS and affects the processing of query text.
DateFormat	Specifies the Ingres format for date literals. Corresponds to the Ingres environment variable II_DATE_FORMAT and is assigned the same values. This property is not used directly by the driver, but is sent to the DBMS and affects the processing of query text.
MoneyFormat	Specifies the Ingres format for money literals. Corresponds to the Ingres environment variable II_MONEY_FORMAT and is assigned the same values. This property is not used directly by the driver but is sent to the DBMS and affects the processing of query text.
MoneyPrecision	

Specifies the precision of money data values. Corresponds to the Ingres environment variable II_MONEY_PREC and is assigned the same values. This property is not used directly by the driver but is sent to the DBMS and affects the processing of money values.

As indiacted above the paramters of the options and preferences tabs are not required for a basic connection:

Figure 6.20. ee-ing-19.gif



Row buffer size 60

□ Hide login dialog

□ Read only connection

Jet options

□ Drop catalog from meta calls □ Drop schema from meta calls

□ No support of quoted identifier □ SQL statistic disabled

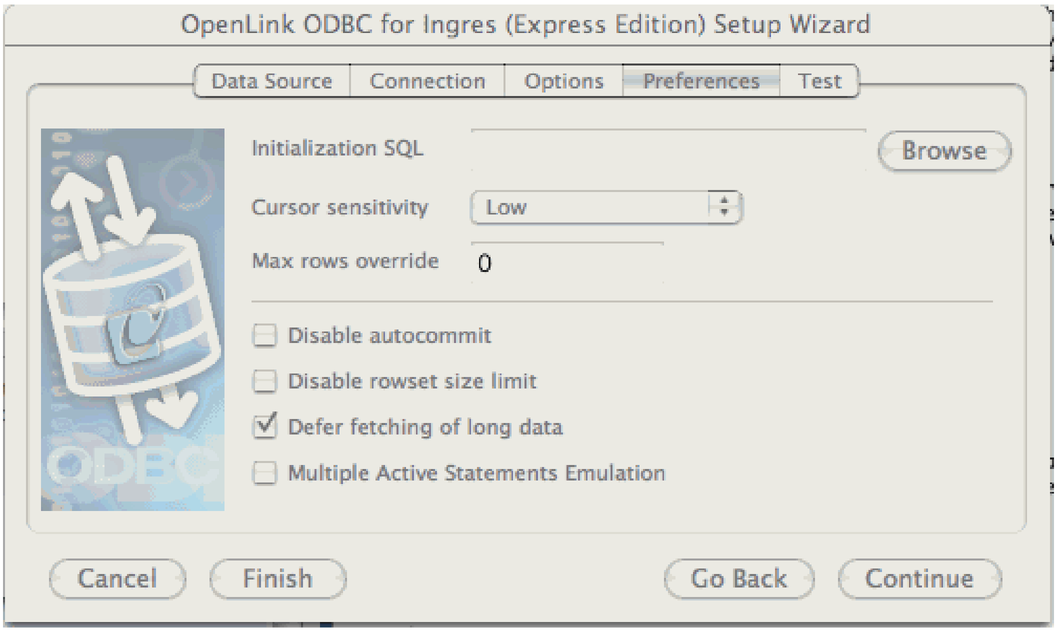
□ No support of search string escape

Patch of NULL size of SQL_CHAR 0

SQL DBMS name

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.
- *Hide Login Dialog* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.
- *Read Only connection* - Specify whether the connection is to be read-only. Make sure the checkbox is unchecked to request a read/write connection.
- *Drop Catalog from Meta calls* - Enable this option to have the catalog name not appear for tables, views and procedures when requesting database meta-data.
- *Drop Schema from Meta calls* - Enable this option to have the schema-name not appear for tables, views and procedures when requesting database meta-data.
- *SQLStatistics disabled* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table (e.g. what indexes there are on it).
- *No support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if DBMS doesn't support quoted SQL such as select * from "account"
- *No support of search string escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space character (" "). It can be used if DBMS doesn't support SQL escape patterns
- *Patch of NULL size of SQL_CHAR* - If set this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0 the driver uses the size returned by the database.
- *SQL_DBMS Name* - Manually override the SQLGetInfo(SQL_DBMS_NAME) response returned by the driver. This is know to be required for products like Microsoft InfoPath for which the return the value should be "SQL Server".

Figure 6.21. ee-ing-20.gif



OpenLink ODBC for Ingres (Express Edition) Setup Wizard

Initialization SQL

Cursor sensitivity: Low

Max rows override: 0

□ Disable autocommit

□ Disable rowset size limit

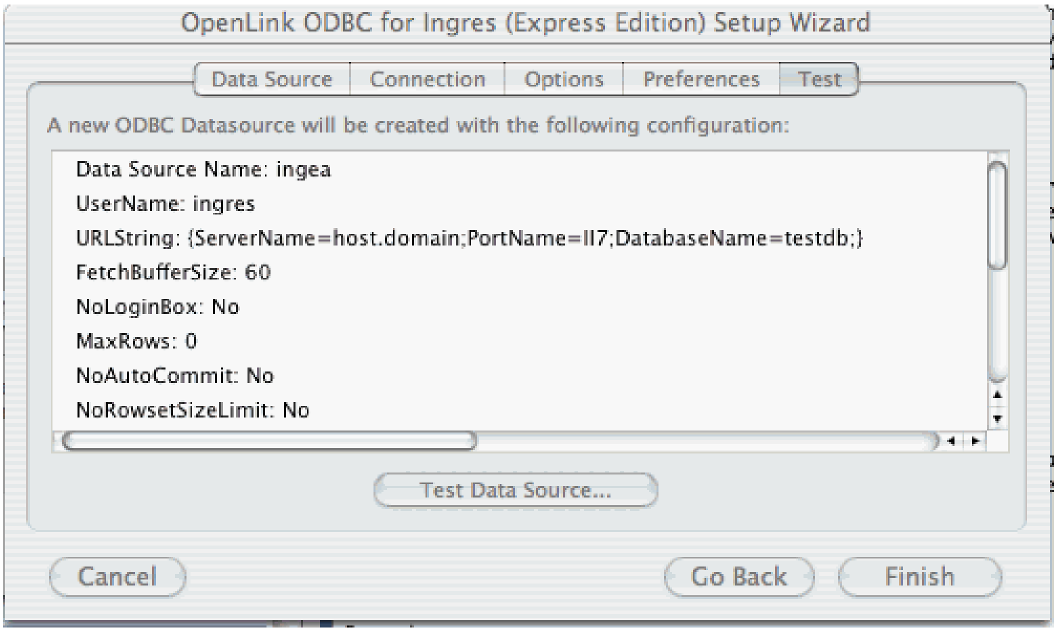
☑ Defer fetching of long data

□ Multiple Active Statements Emulation

- *Initialization SQL* - Lets you specify a file containing SQL statements that will be run against the database upon connection, automatically.
- *Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows don't appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate script for the target database.
- *MaxRows Override* - Allows you to define a limit on the maximum number of rows to returned from a query. The default value of 0 means no limit.
- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Lite Driver. The default mode is AutoCommit mode (box unchecked).
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset is generated from an erroneous query is very large. The limit is normally never reached.
- *Defer fetching of long data* - Defer fetching of LONG (BINARY, BLOB etc.) data unless explicitly requested in query. This provides significant performance increase when fields in query does not include LONG data fields.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Click on the 'Test Data Source' button to make a connection to the database to verify connectivity:

Figure 6.22. ee-ing-21.gif

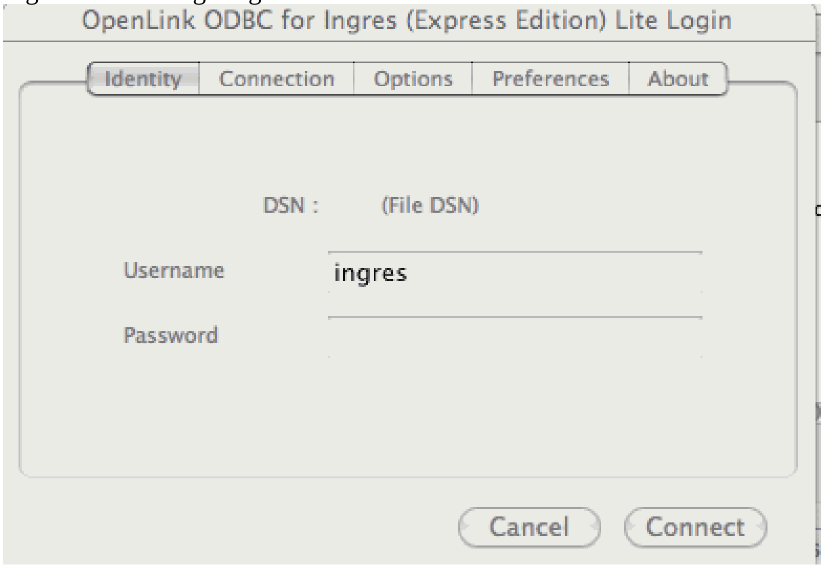


A new ODBC Datasource will be created with the following configuration:

Data Source Name: ingea
UserName: ingres
URLString: {ServerName=host.domain;PortName=II7;DatabaseName=testdb;}
FetchBufferSize: 60
NoLoginBox: No
MaxRows: 0
NoAutoCommit: No
NoRowsetSizeLimit: No

Enter a vaild username and pasword for the database:

Figure 6.23. ee-ing-22.gif



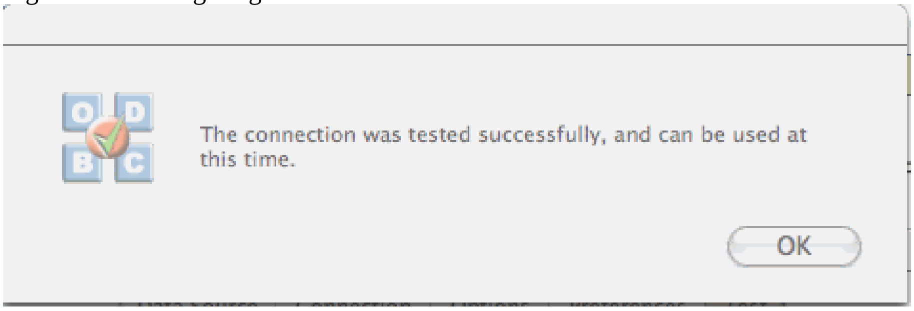
DSN : (File DSN)

Username ingres

Password

A successful connection to the database has been made:

Figure 6.24. ee-ing-23.gif



The connection was tested successfully, and can be used at this time.

7.2 OpenLink ODBC Driver for Ingres (Express Edition) for Windows

7.2.1 Installation

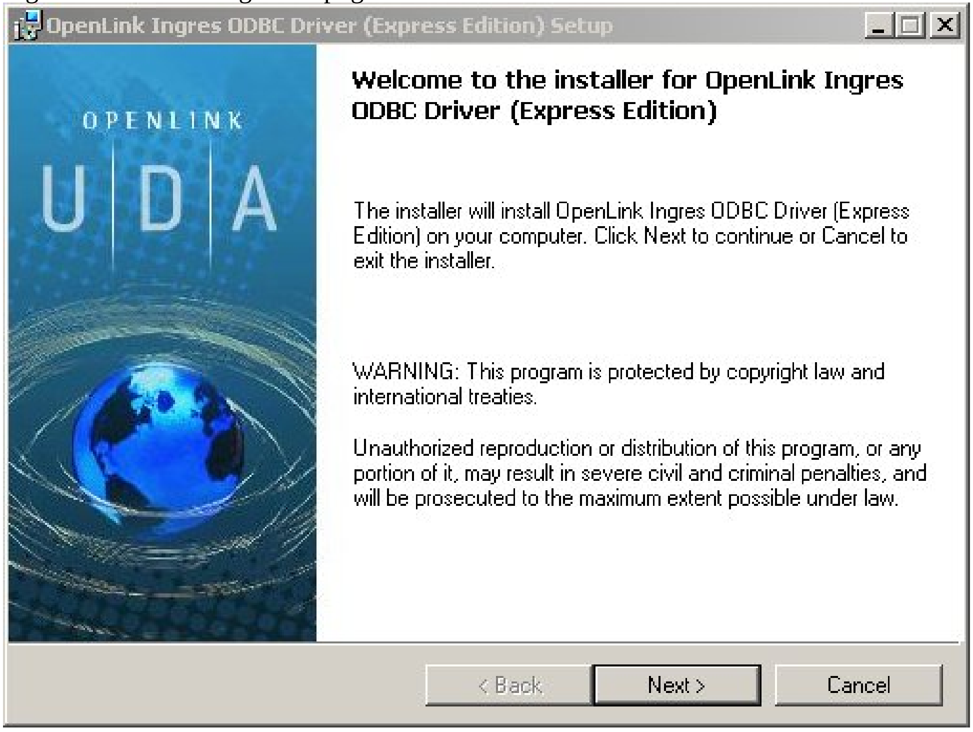
The OpenLink ODBCDriver for Ingres (Express Edition) is distributed as a Windows MSI installer. Simply double click on the installer 'ntl6eing.msi' to commence the installation:

Figure 6.25. EEWininginst01.png

ntl6eing
Windows Installer Package
1,988 KB

Installer Welcome Dialog for the OpenLink ODBCDriver for Ingres (Express Edition):

Figure 6.26. EEWininginst02.png



OpenLink Ingres ODBC Driver (Express Edition) Setup

Welcome to the installer for OpenLink Ingres ODBC Driver (Express Edition)

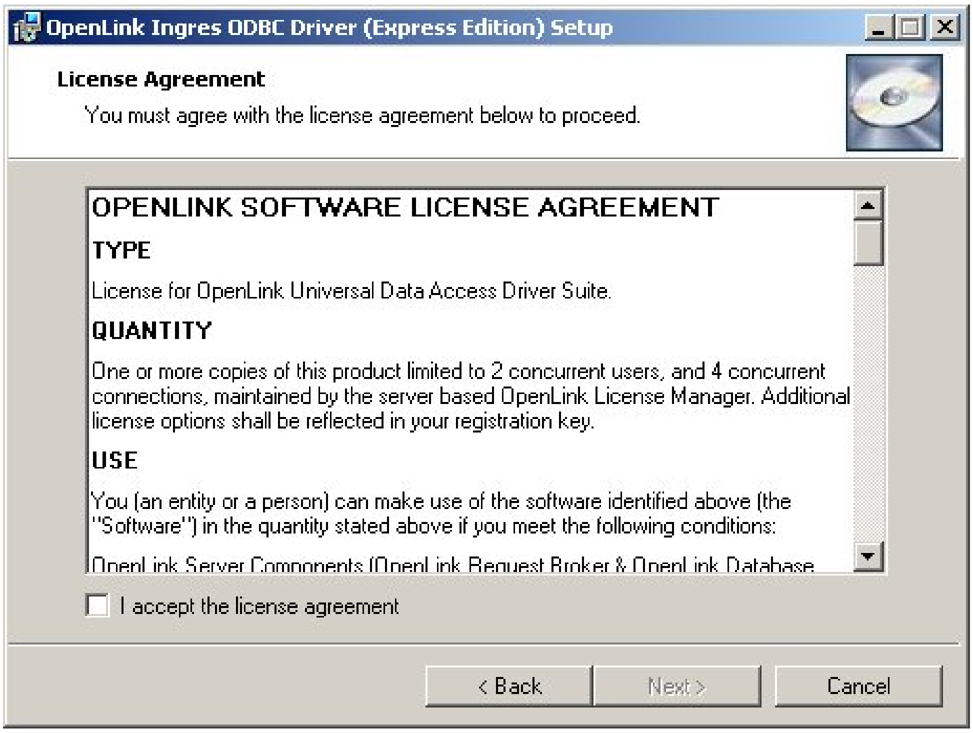
The installer will install OpenLink Ingres ODBC Driver (Express Edition) on your computer. Click Next to continue or Cancel to exit the installer.

WARNING: This program is protected by copyright law and international treaties.

Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.

Please read the software license agreement and accept before continuing your installation:

Figure 6.27. EEWininginst03.png



License Agreement

You must agree with the license agreement below to proceed.

OPENLINK SOFTWARE LICENSE AGREEMENT

TYPE

License for OpenLink Universal Data Access Driver Suite.

QUANTITY

One or more copies of this product limited to 2 concurrent users, and 4 concurrent connections, maintained by the server based OpenLink License Manager. Additional license options shall be reflected in your registration key.

USE

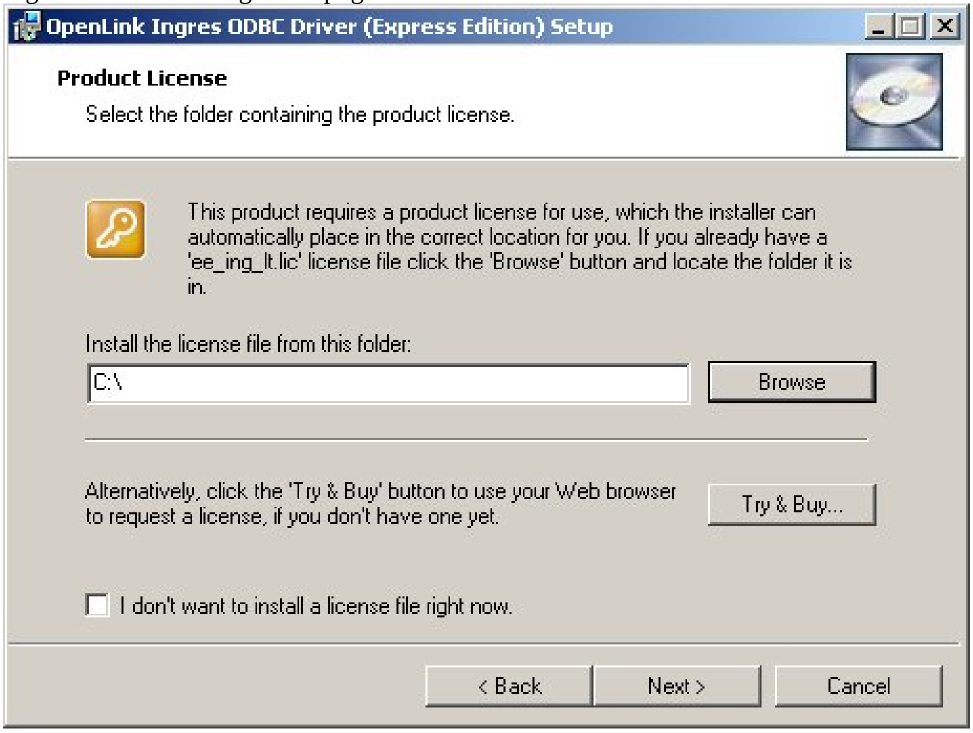
You (an entity or a person) can make use of the software identified above (the "Software") in the quantity stated above if you meet the following conditions:

OpenLink Server Components (OpenLink Request Broker & OpenLink Database

□ I accept the license agreement

Before installation you will be prompted for a license file. If a license file already exists on the machine, then select the 'use exisiting file' option. A trial (try) or full (buy) license can be obtained by selecting the 'try and buy' option, which loads OpenLink's online try and buy web page:

Figure 6.28. EEWininginst04.png



Product License

Select the folder containing the product license.

This product requires a product license for use, which the installer can automatically place in the correct location for you. If you already have a 'ee_ing_lt.lic' license file click the 'Browse' button and locate the folder it is in.

Install the license file from this folder:

C:\

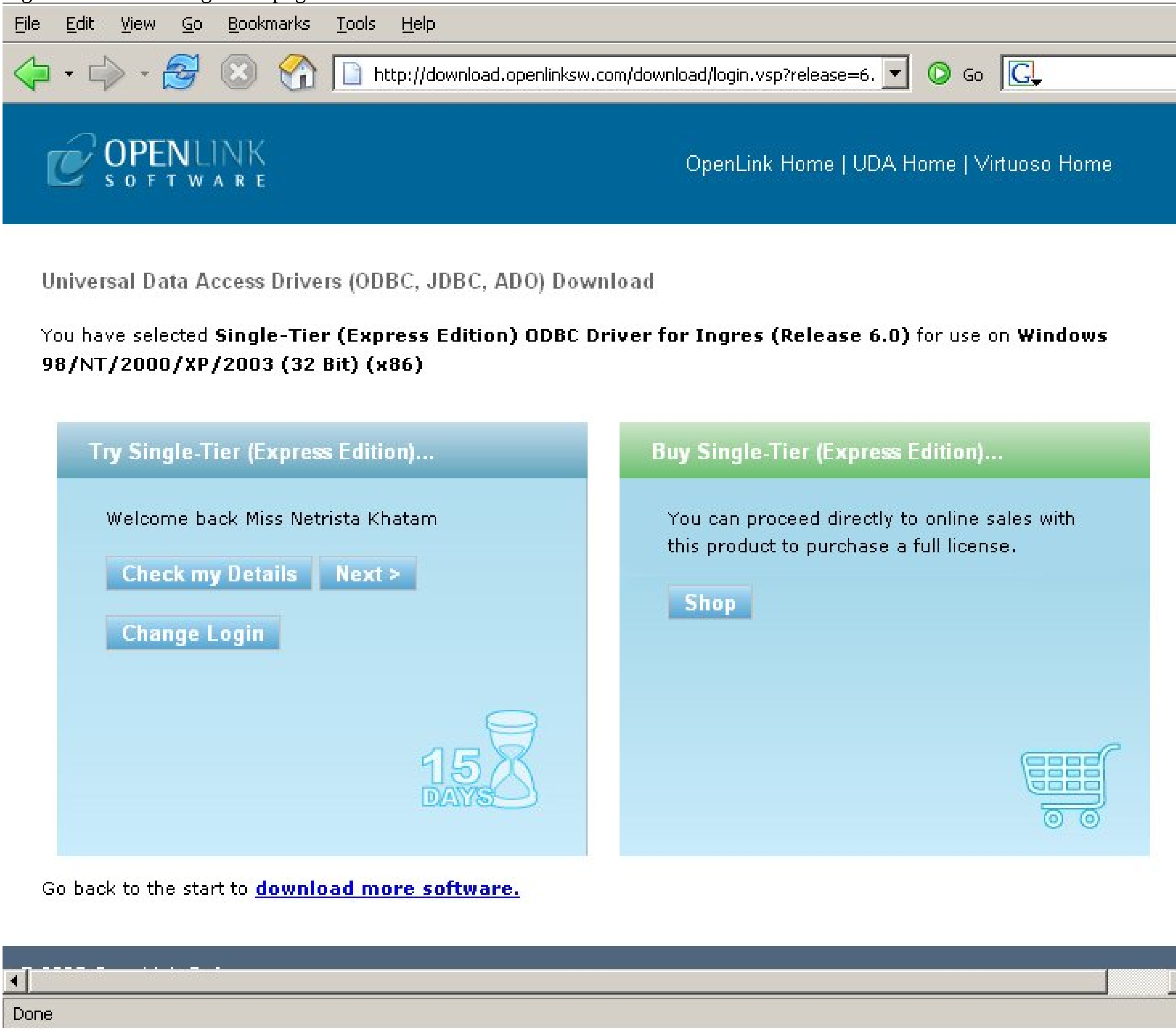
Alternatively, click the 'Try & Buy' button to use your Web browser to request a license, if you don't have one yet.

□ I don't want to install a license file right now.

To obtain the trial license, you must be a registered user on the OpenLinkWeb site and login with your username (e-mail address) and password. Click on the 'Shop' link to visit OpenLink's online shop cart to purchase a full license, if required:

Click on the 'download license' button to immediately obtain the license file and save it to your desktop. Alternatively, an auto-generated e-mail will be sent to your registered e-mail address. This email will contain a link to your OpenLinkData Space (ODS). The OpenLInkData Space (ODS) contains copies of all trial and full license files in a Briefcase for download at a later date.

Figure 6.29. EEWininginst05.png



http://download.openlinksw.com/download/login.vsp?release=6.

Universal Data Access Drivers (ODBC, JDBC, ADO) Download

You have selected **Single-Tier (Express Edition) ODBC Driver for Ingres (Release 6.0)** for use on **Windows 98/NT/2000/XP/2003 (32 Bit) (x86)**

Try Single-Tier (Express Edition)...

Welcome back Miss Netrista Khatam

Buy Single-Tier (Express Edition)...

You can proceed directly to online sales with this product to purchase a full license.

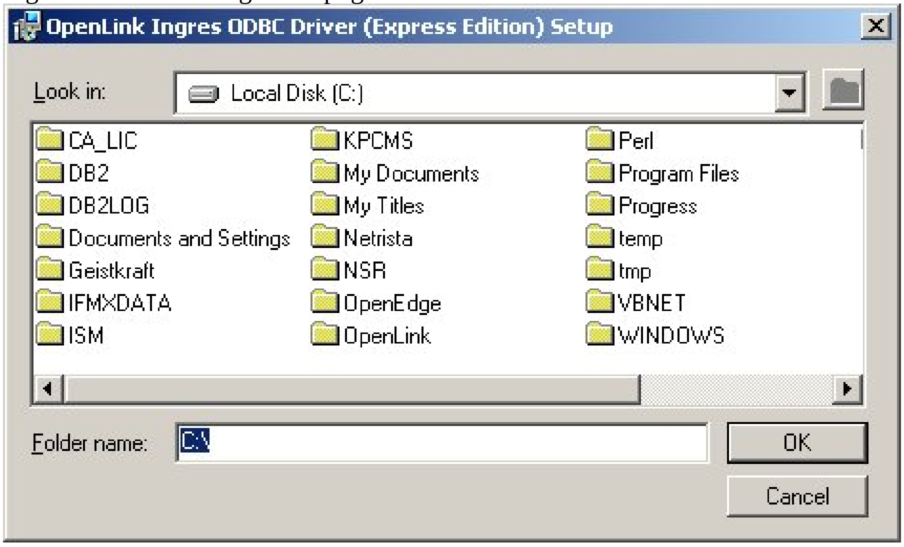
Go back to the start to download more software.

Done

File Edit View Go Bookmarks Tools Help
Go
OPENLINK SOFTWARE
OpenLink Home | UDA Home | Virtuoso Home
Check my Details
Next >
Change Login
15 DAYS
Shop

Select the license file to be used for the installation:

Figure 6.30. EEWininginst06.png



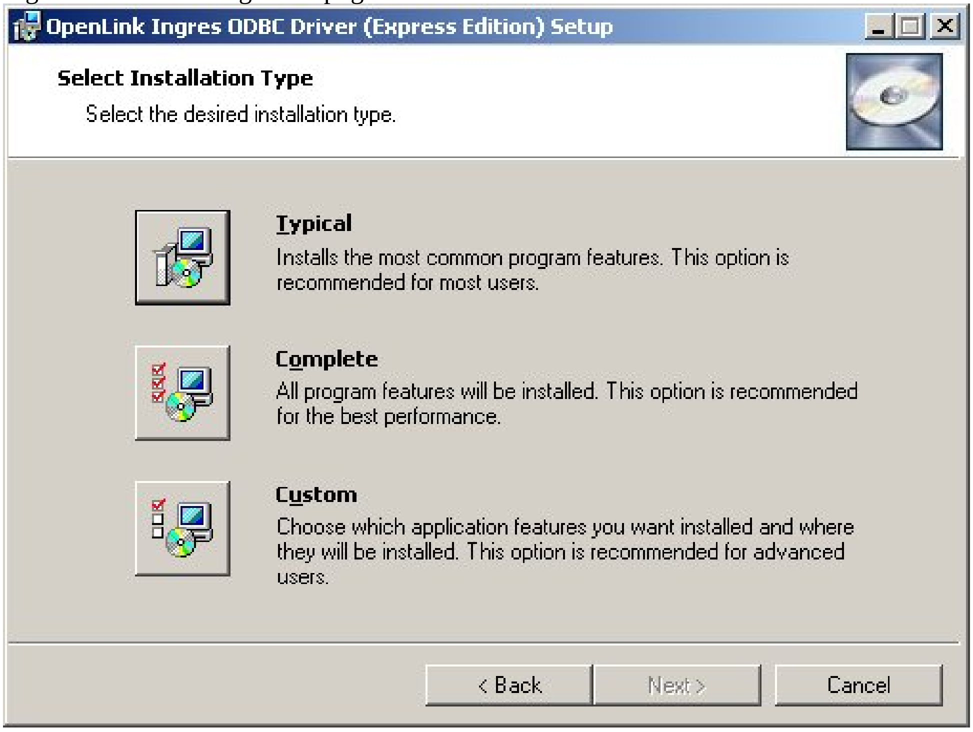
OpenLink Ingres ODBC Driver (Express Edition) Setup

Look in: Local Disk (C:)

Folder name: C:\

Choose to perform a custom, typical or complete installation of the driver:

Figure 6.31. EEWininginst07.png



OpenLink Ingres ODBC Driver (Express Edition) Setup

Select Installation Type

Select the desired installation type.

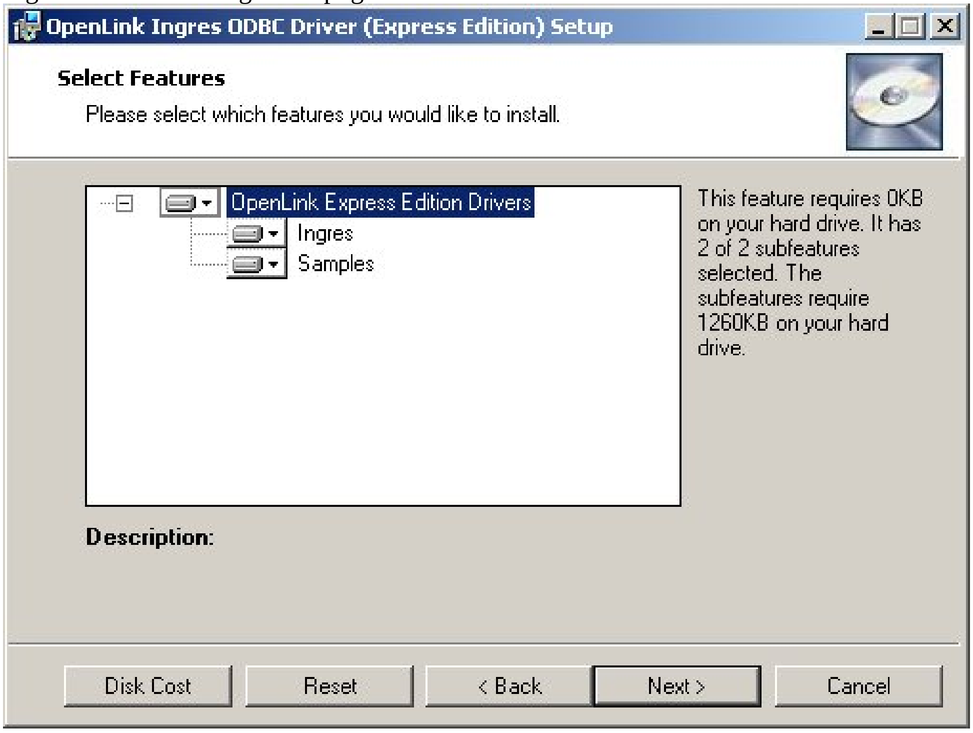
Typical
Installs the most common program features. This option is recommended for most users.

Complete
All program features will be installed. This option is recommended for the best performance.

Custom
Choose which application features you want installed and where they will be installed. This option is recommended for advanced users.

Select the features to be installed:

Figure 6.32. EEWininginst08.png



OpenLink Ingres ODBC Driver (Express Edition) Setup

Select Features

Please select which features you would like to install.

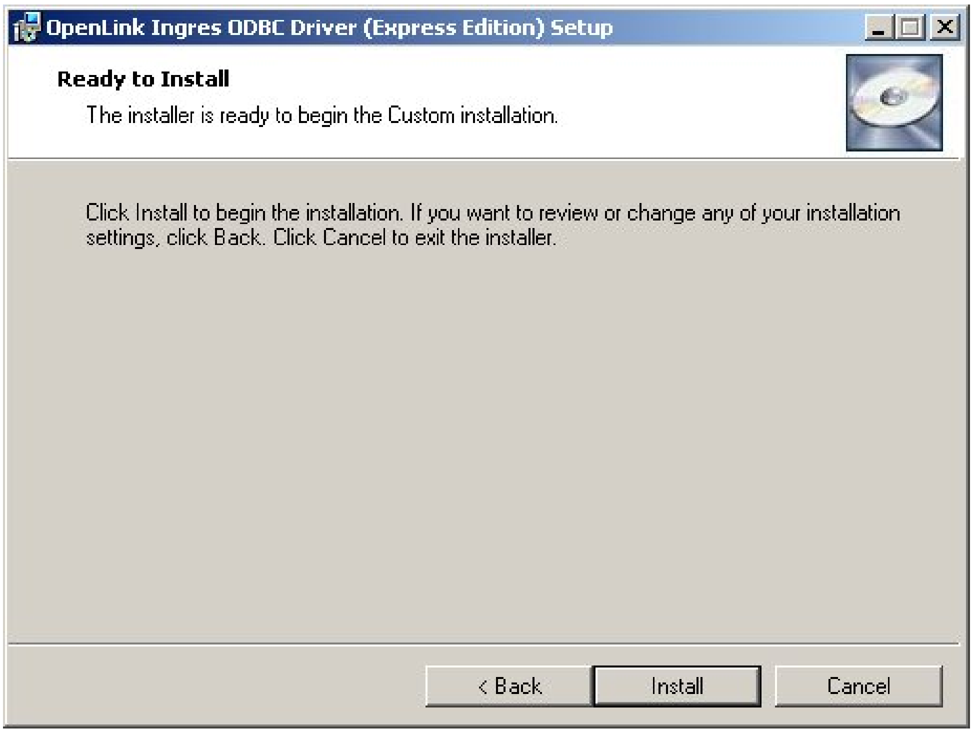
- OpenLink Express Edition Drivers
  - Ingres
  - Samples

This feature requires 0KB on your hard drive. It has 2 of 2 subfeatures selected. The subfeatures require 1260KB on your hard drive.

Description:

Click the install button to begin the installation of components:

Figure 6.33. EEWininginst09.png



OpenLink Ingres ODBC Driver (Express Edition) Setup

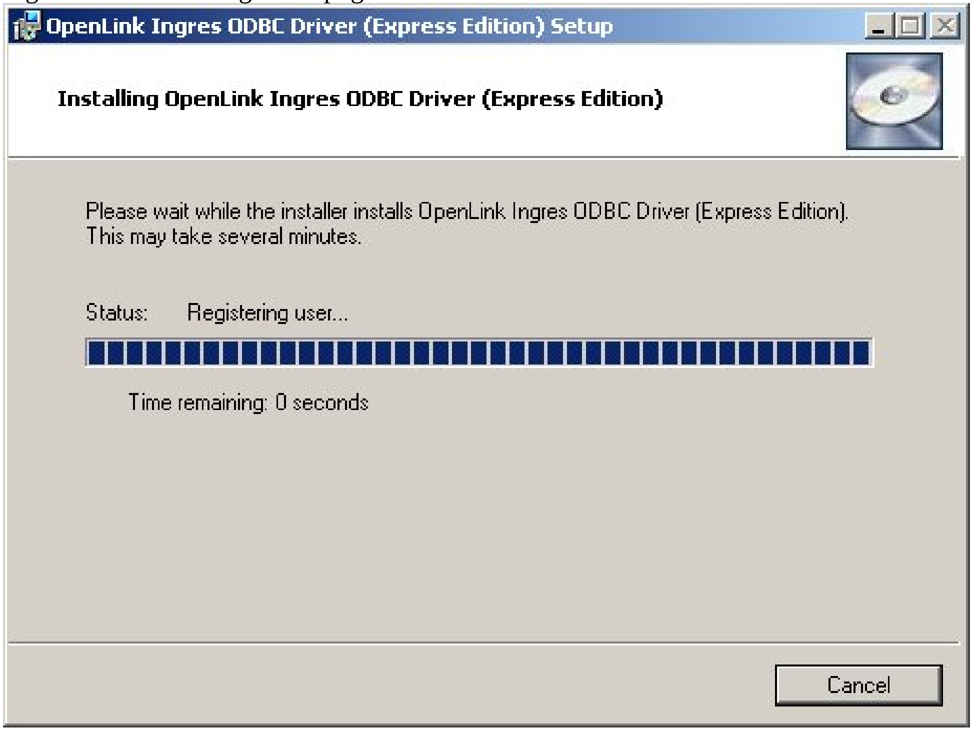
Ready to Install

The installer is ready to begin the Custom installation.

Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the installer.

Installation in progress:

Figure 6.34. EEWininginst10.png



OpenLink Ingres ODBC Driver (Express Edition) Setup

Installing OpenLink Ingres ODBC Driver (Express Edition)

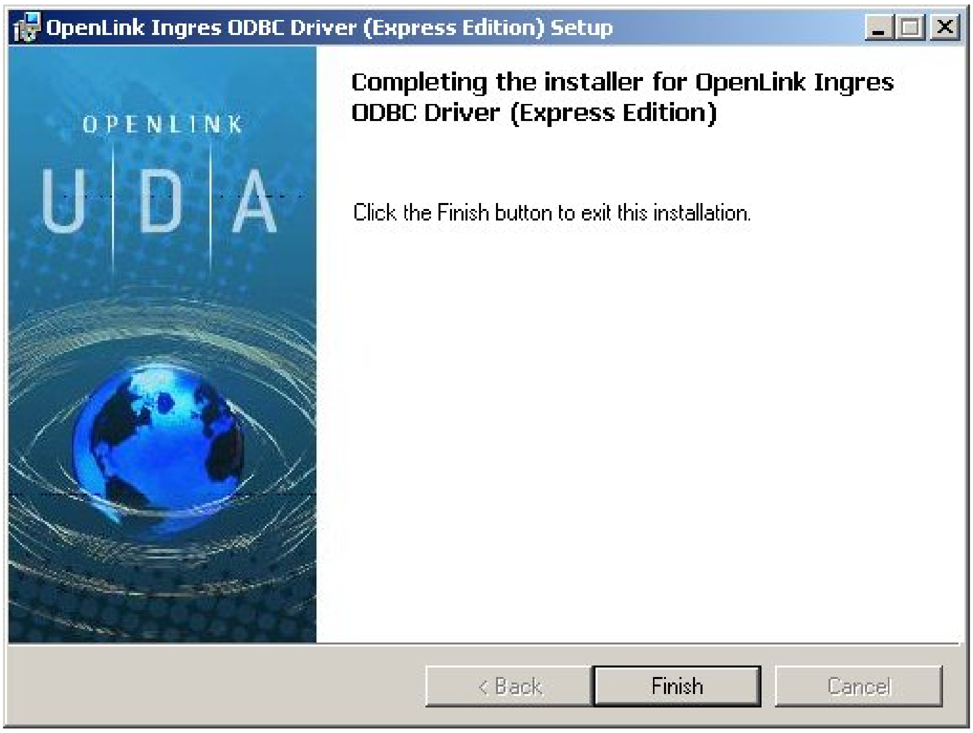
Please wait while the installer installs OpenLink Ingres ODBC Driver (Express Edition). This may take several minutes.

Status: Registering user...

Time remaining: 0 seconds

The Software installation is complete and ready for use:

Figure 6.35. EEWininginst11.png



Completing the installer for OpenLink Ingres ODBC Driver (Express Edition)

Click the Finish button to exit this installation.

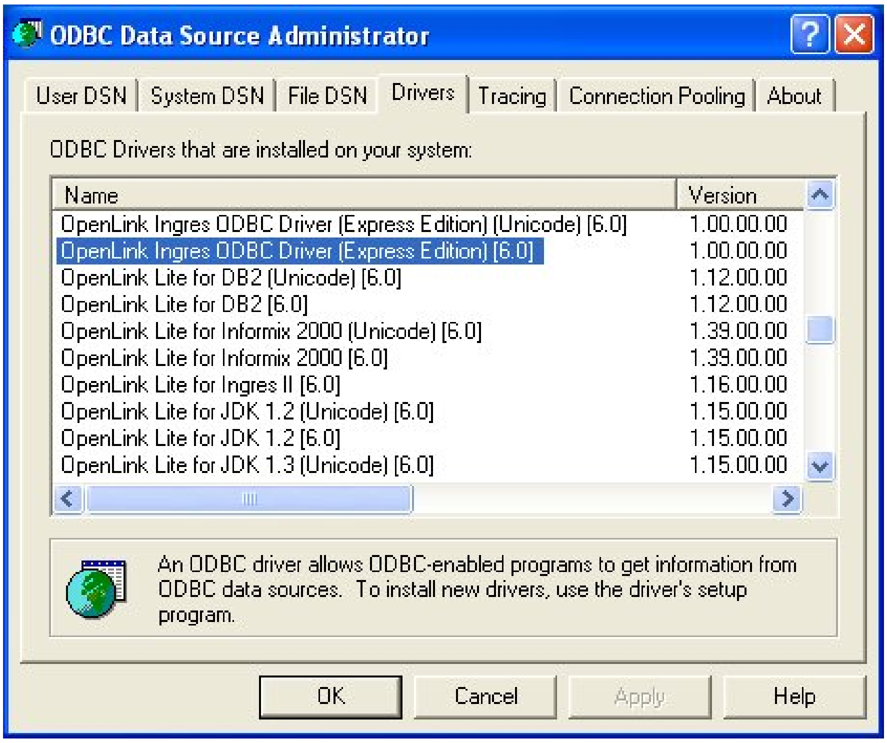
7.2.2 Configuration

To configure an ODBCDSN, run the ODBCAdministrator located in the Administrative Tools section of the Control Panel:

Figure 6.36. EEWiningconf01.png

Click on the Drivers tab to confirm the OpenLinkIngres ODBCDriver [Express Edition][6.0] has been successfully installed:

Figure 6.37. EEWiningconf02.png



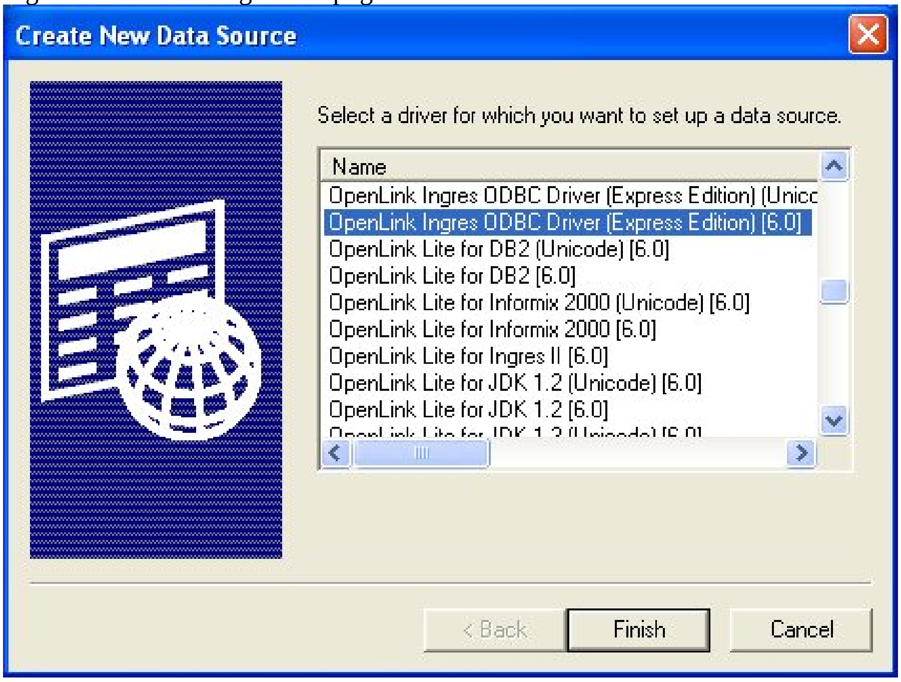
ODBC Drivers that are installed on your system:

Name	Version
OpenLink Ingres ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink Ingres ODBC Driver (Express Edition) [6.0]	1.00.00.00
OpenLink Lite for DB2 (Unicode) [6.0]	1.12.00.00
OpenLink Lite for DB2 [6.0]	1.12.00.00
OpenLink Lite for Informix 2000 (Unicode) [6.0]	1.39.00.00
OpenLink Lite for Informix 2000 [6.0]	1.39.00.00
OpenLink Lite for Ingres II [6.0]	1.16.00.00
OpenLink Lite for JDK 1.2 (Unicode) [6.0]	1.15.00.00
OpenLink Lite for JDK 1.2 [6.0]	1.15.00.00
OpenLink Lite for JDK 1.3 (Unicode) [6.0]	1.15.00.00

An ODBC driver allows ODBC-enabled programs to get information from ODBC data sources. To install new drivers, use the driver's setup program.

From either the User or System DSN tabs, click on the Add button and select the OpenLinkIngres ODBCDriver [Express Edition][6.0] from the list :

Figure 6.38. EEWiningconf03.png

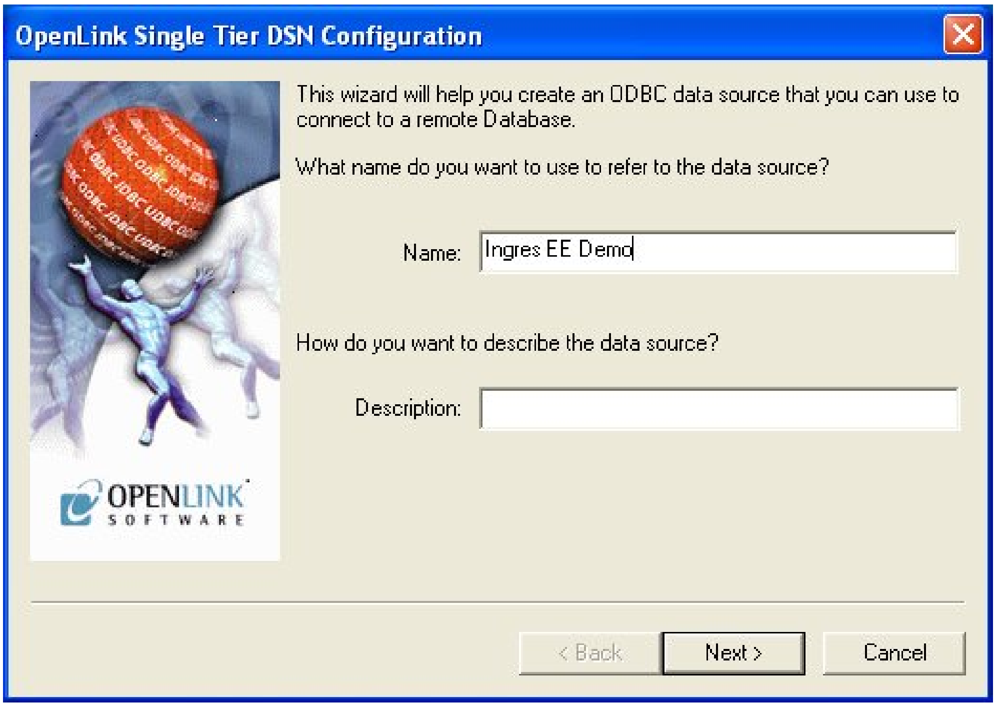


Select a driver for which you want to set up a data source.

Name
OpenLink Ingres ODBC Driver (Express Edition) (Unicc
OpenLink Ingres ODBC Driver (Express Edition) [6.0]
OpenLink Lite for DB2 (Unicode) [6.0]
OpenLink Lite for DB2 [6.0]
OpenLink Lite for Informix 2000 (Unicode) [6.0]
OpenLink Lite for Informix 2000 [6.0]
OpenLink Lite for Ingres II [6.0]
OpenLink Lite for JDK 1.2 (Unicode) [6.0]
OpenLink Lite for JDK 1.2 [6.0]
OpenLink Lite for JDK 1.3 (Unicode) [6.0]

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 6.39. EEWiningconf04.png



OpenLink Single Tier DSN Configuration

This wizard will help you create an ODBC data source that you can use to connect to a remote Database.

What name do you want to use to refer to the data source?

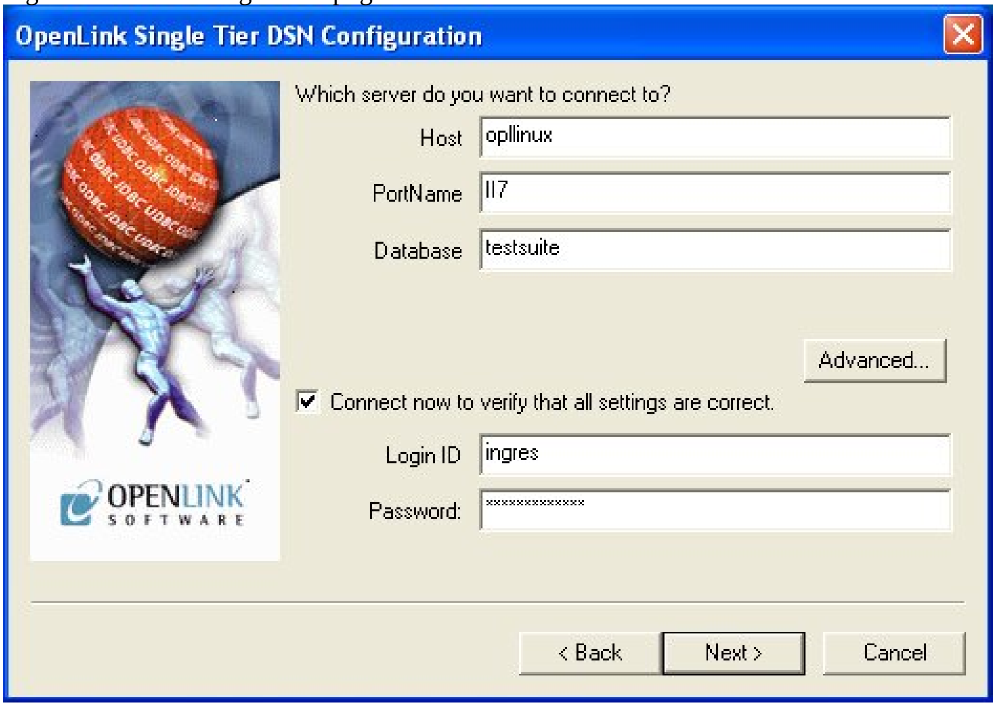
Name: Ingres EE Demo

How do you want to describe the data source?

Description:

The Connection tab requests the minimum parameters required to make a connection to the target database:

Figure 6.40. EEWiningconf05.png



OpenLink Single Tier DSN Configuration

Which server do you want to connect to?

Host: opllinux

PortName: II7

Database: testsuite

☑ Connect now to verify that all settings are correct.

Login ID: ingres

Password: **************

- *Host* : This is the fully qualified hostname or IP address of the machine hosting the DBMS you wish to access, e.g., dbms-server.example.com, or 192.168.155.123. Any hostname which will be resolved by your local DNS is acceptable.

- *PortName* : This is the port on which Ingres is listening

- *Database* : This is the name of the Ingres database to which you want to connect

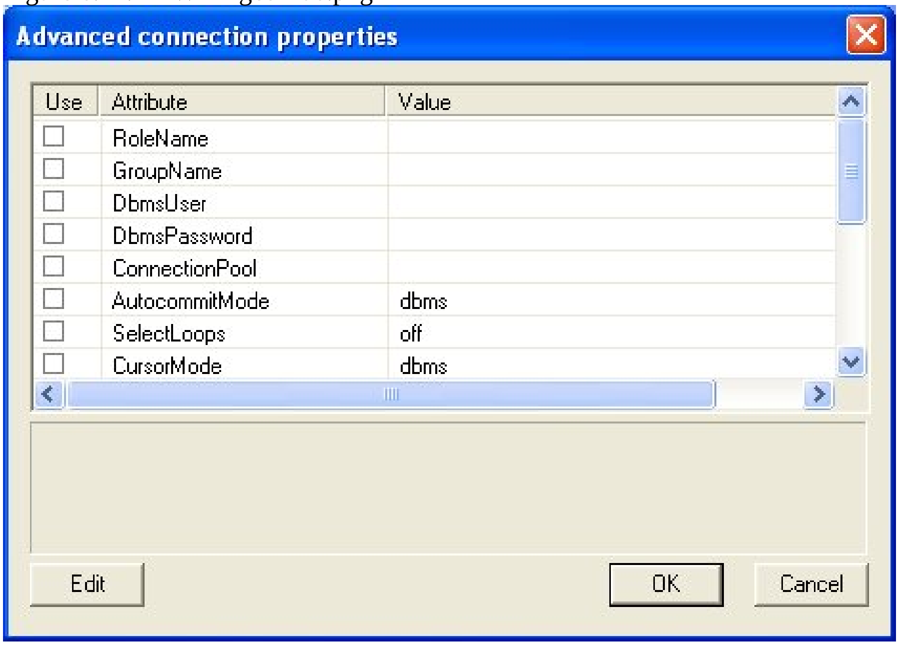
- *Login ID* : This is a valid user name for the Ingres database

- *Password* : This is a valid password for the Ingres database

Click next to verify that all settings are correct or uncheck the check box to delay testing to a later stage.

The advanced button displays additional, optional parameters that can be configured:

Figure 6.41. EEWiningconf06.png



Advanced connection properties

Use	Attribute	Value
□	RoleName	
□	GroupName	
□	DbmsUser	
□	DbmsPassword	
□	ConnectionPool	
□	AutocommitMode	dbms
□	SelectLoops	off
□	CursorMode	dbms

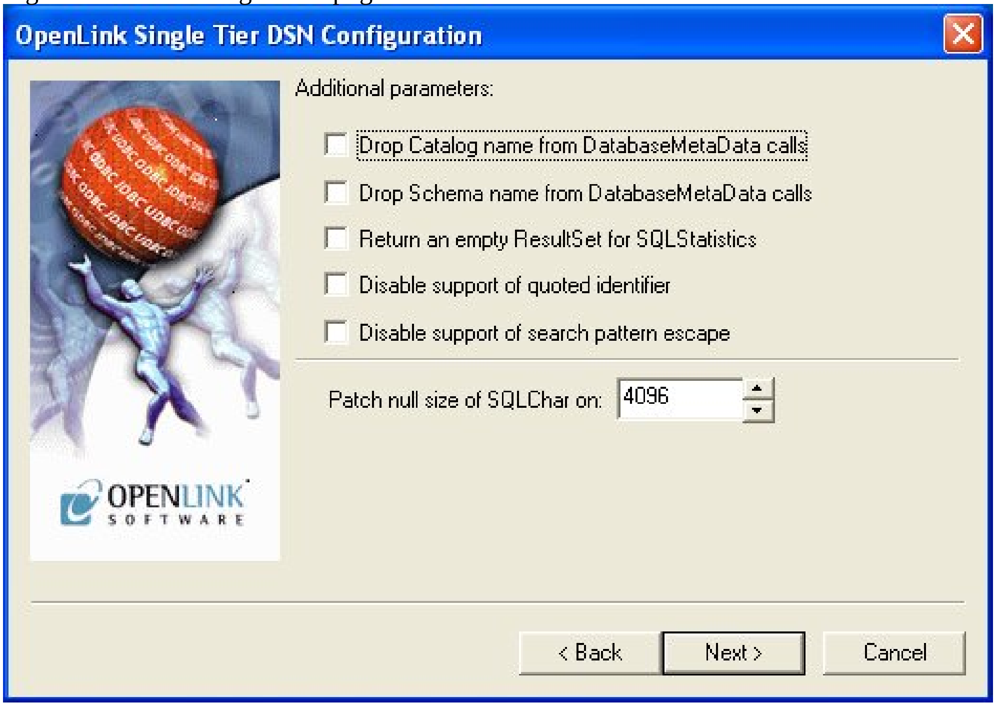
Table 6.2.

RoleName	Role used in DBMS.
GroupName	Group used in DBMS.
DbmsUser	User ID for the DBMS session (-u flag).
DbmsPassword	User's DBMS password.
ConnectionPool	Use pool connectino: 'off' or 'on.'
AutocommitMode	Autocommit cursor handling: 'dbms', 'single', 'multi. (default - 'dbms')
SelectLoops	Select loop processing: 'off' or 'on.' (default - 'off')
CursorMode	Default cursor concurrency mode, which determines the concurrency of cursors that have no concurrency explicitly assigned. Available options are: 'dbms', 'update', 'readonly.' (default - 'dbms')
VnodeUsage	Allows the JDBC application to control the portions of the vnode information that are used to establish the connection to the remote DBMS server. Available options are 'connect','login' (default - 'connect').
CharEncode	Specifies the character encoding for the conversions between Unicode and character data types. Generally, the character encoding is determined automatically by the driver from the DAS installation character set. This property allows an alternate character encoding to be specified (if desired) or a valid character encoding to be used when the driver is unable to map the server's character set.
TimeZone	Specifies the Ingres timezone associated with the client's location. Corresponds to the Ingres environment variable II_TIMEZONE_NAME and is assigned the same values. This property is not used directly by the driver but is sent to the DBMS and affects the processing of dates.
DecimalChar	Specifies the character to be used as the decimal point in numeric literals. Corresponds to the Ingres environment variable II_DECIMAL and is assigned the same values. This property is not used directly by the driver but is sent to the DBMS and affects the processing of query text.
DateFormat	Specifies the Ingres format for date literals. Corresponds to the Ingres environment variable II_DATE_DECIMAL and is assigned the same values. This property is not used directly by the driver but is sent to the DBMS and affects the processing of query text.
MoneyFormat	Specifies the Ingres format for money literals. Corresponds to the Ingres environment variable II_MONEY_FORMAT and is assigned the same values. This property is not used directly by the

	driver but is sent to the DBMS and affects the processing of query text..
MoneyPrecision	Specifies the precision of money data values. Corresponds to the Ingres environment variable II_MONEY_PREC and is assigned the same values. This property is not used directly by the driver but is sent to the DBMS and affects the processing of money values.

As indicated above, the parameters on the options and preferences tabs are not required for a basic connection.

Figure 6.42. EEWiningconf17.png



OpenLink Single Tier DSN Configuration

Additional parameters:

□ Drop Catalog name from DatabaseMetaData calls

□ Drop Schema name from DatabaseMetaData calls

□ Return an empty ResultSet for SQLStatistics

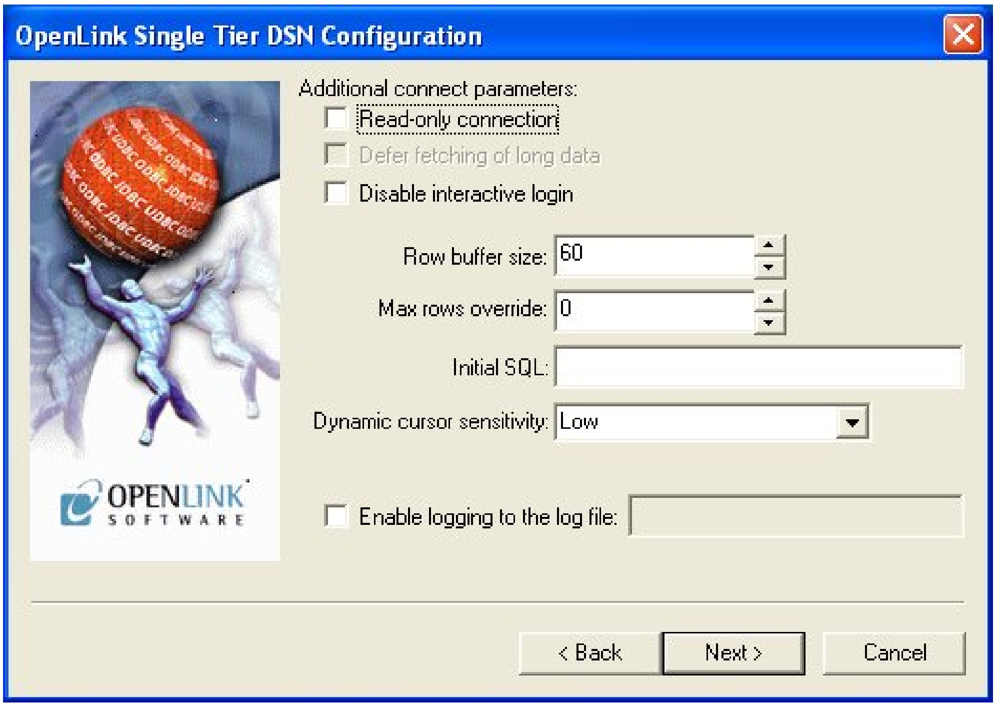
□ Disable support of quoted identifier

□ Disable support of search pattern escape

Patch null size of SQLChar on: 4096

- *Drop Catalog name from DatabaseMetaData calls* - Enable this option to have the catalog name not appear for tables, views, and procedures when requesting database meta-data.
- *Drop Schema name from DatabaseMetaData calls* - Enable this option to have the schema-name not appear for tables, views, and procedures when requesting database meta-data.
- *Return an empty ResultSet for SQLStatistics* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table, e.g., what indexes there are on it.
- *Disable support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if the DBMS does not support quoted SQL, e.g., select * from "account."
- *Disable support of search pattern escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if the DBMS does not support SQL escape patterns.
- *Patch of NULL size of SQL_CHAR* - If set, this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0, the driver uses the size returned by the database.

Figure 6.43. EEWiningconf08.png



OpenLink Single Tier DSN Configuration

Additional connect parameters:

□ Read-only connection

□ Defer fetching of long data

□ Disable interactive login

Row buffer size: 60

Max rows override: 0

Initial SQL:

Dynamic cursor sensitivity: Low

□ Enable logging to the log file:

- *Disable Interactive Login* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.

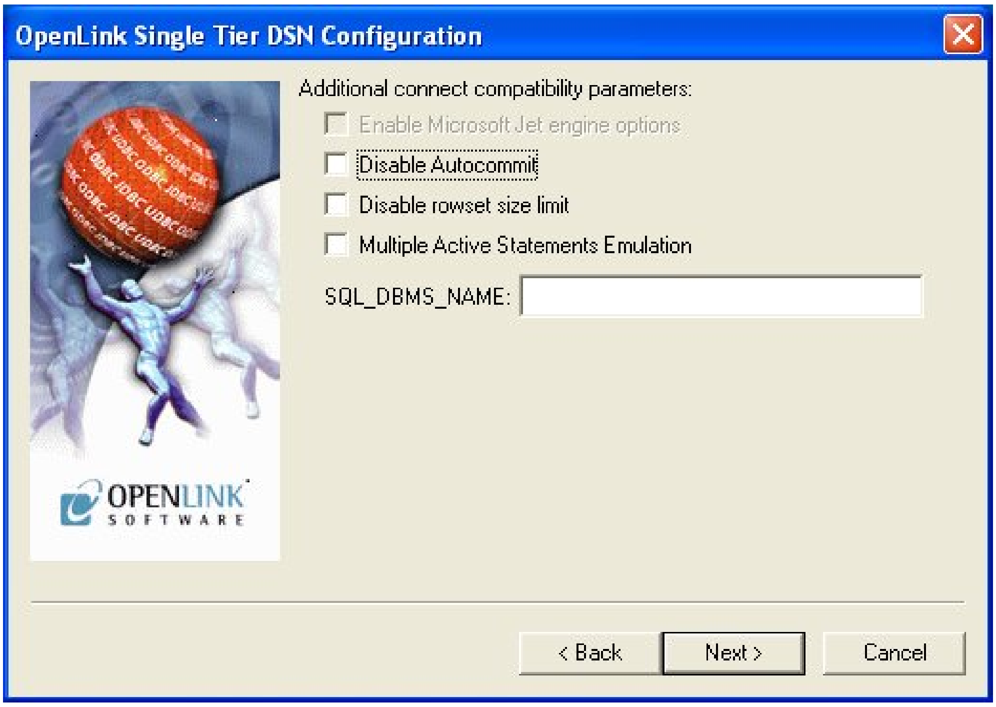
- *Max rows override* - Allows you to define a limit on the maximum number of rows to be returned from a query. The default value of 0 means no limit.

- *Initial SQL* - Lets you specify a file containing SQL statements that will be automatically run against the database upon connection.

- *Dynamic Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched, and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED, when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows do not appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate OpenLink script for the target database.

- *Enable logging to the log file:* - Specifies the full path to a text file. If the associated checkbox is checked, and a file is passed, the driver will log auto-generate a clientside ODBC trace.

Figure 6.44. EEWiningconf09.png



OpenLink Single Tier DSN Configuration

Additional connect compatibility parameters:

□ Enable Microsoft Jet engine options

□ Disable Autocommit

□ Disable rowset size limit

□ Multiple Active Statements Emulation

SQL_DBMS_NAME:

- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Driver. The default mode is AutoCommit (box unchecked).

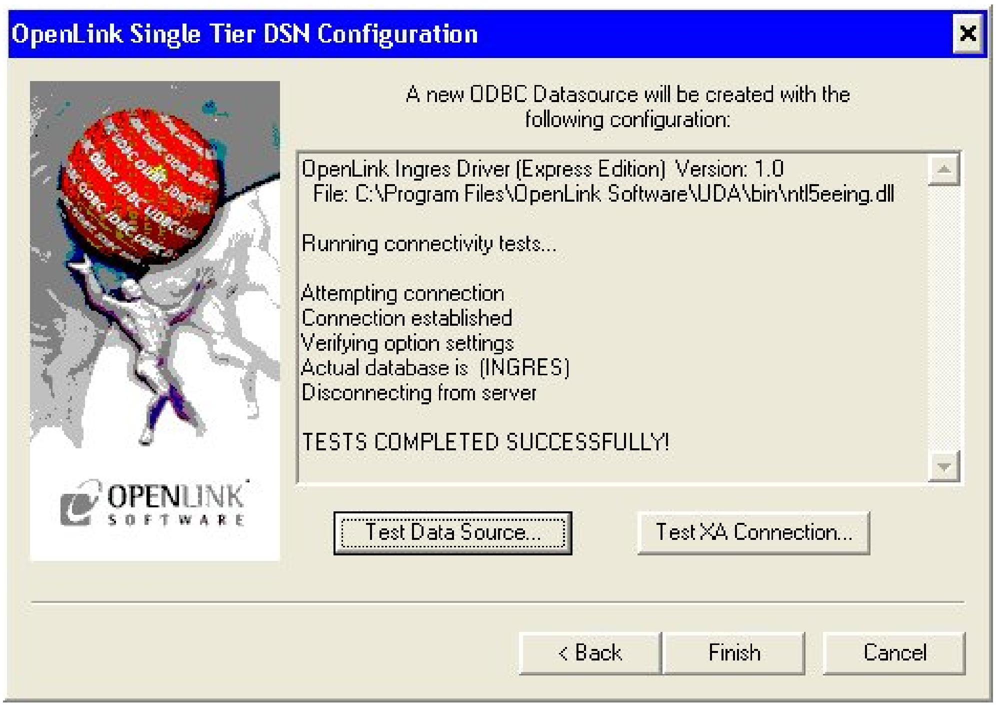
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset generated from an erroneous query is very large. The limit is normally never reached.

- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

- *SQL_DBMS Name* - Manually override the SQLGetInfo(SQL_DBMS_NAME) response returned by the driver. This is required for products like Microsoft InfoPath for which the return value must be "SQL Server".

Click on the *Test Data Source*button to verify that a successful connection can be made to the database.

Figure 6.45. EEWiningconf10.png



A new ODBC Datasource will be created with the following configuration:

```
OpenLink Ingres Driver (Express Edition)  Version: 1.0
  File: C:\Program Files\OpenLink Software\UDA\bin\ntl5eeing.dll

Running connectivity tests...

Attempting connection
Connection established
Verifying option settings
Actual database is  (INGRES)
Disconnecting from server

TESTS COMPLETED SUCCESSFULLY!
```

8 Chapter 7. OpenLink ODBC Driver for MySQL (Express Edition)

Table of Contents

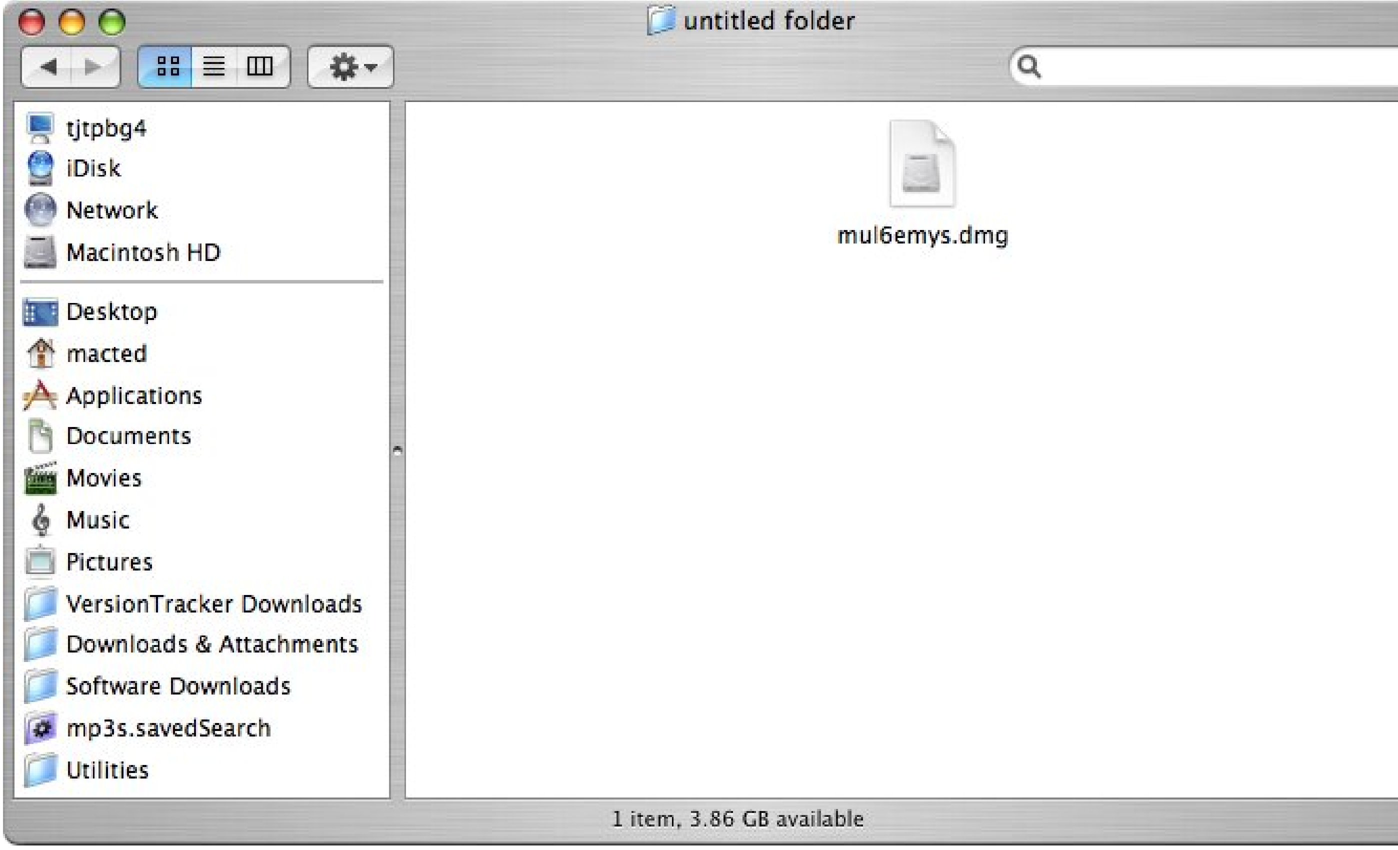
- OpenLink ODBC Driver for MySQL (Express Edition) for Mac OS X
  - Installation Guide
  - Configuration
- OpenLink ODBC Driver for MySQL (Express Edition) for Windows
  - Installation
  - Configuration

8.1 OpenLink ODBC Driver for MySQL (Express Edition) for Mac OS X

8.1.1 Installation Guide

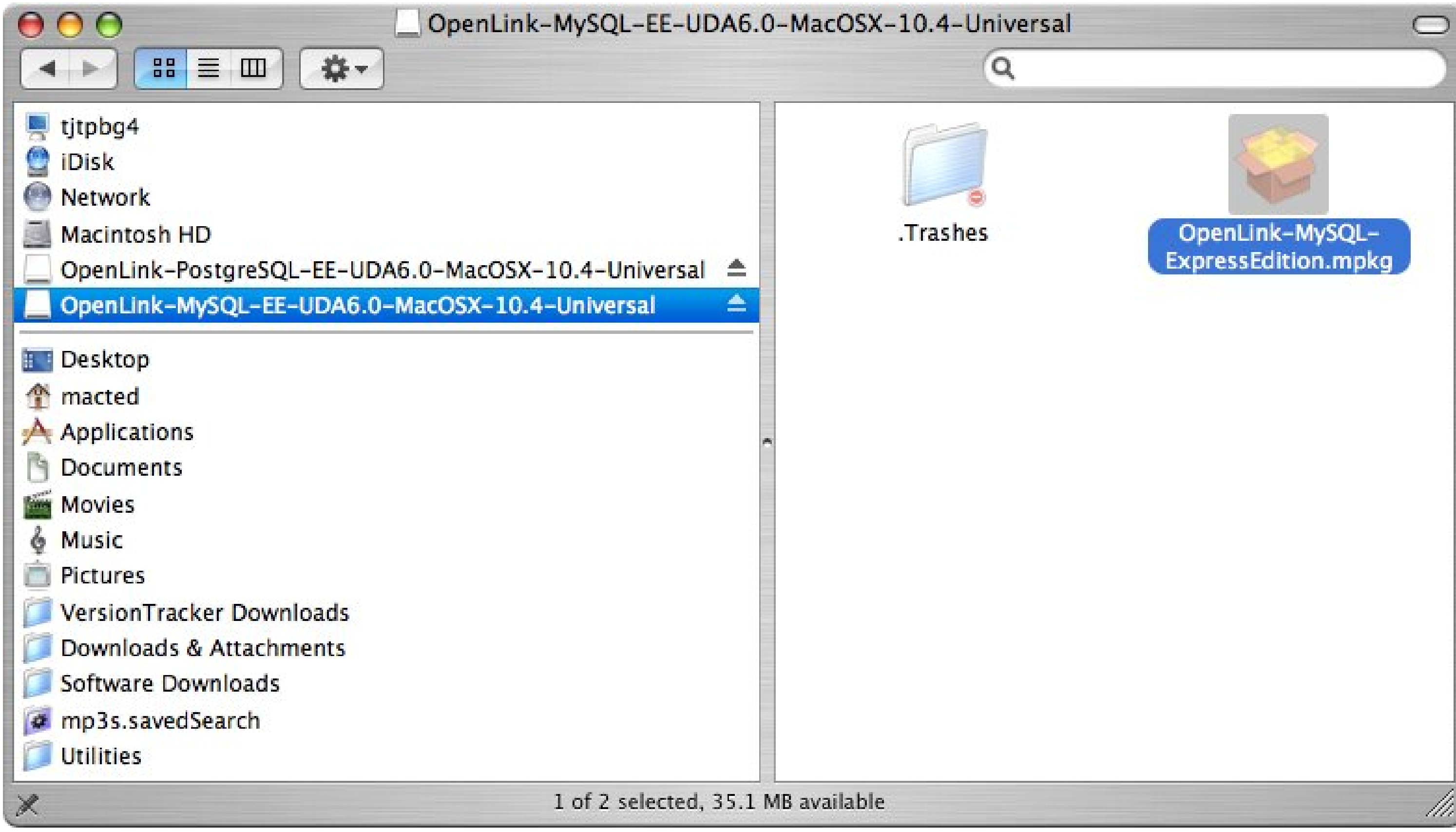
The OpenLink ODBC Driver for MySQL (Express Edition) is distributed as a Disk image (DMG) file. Simply double click on the disk image 'mul6emys.dmg' to extract the installer mpkg file:

Figure 7.1. ee-mys-00.png



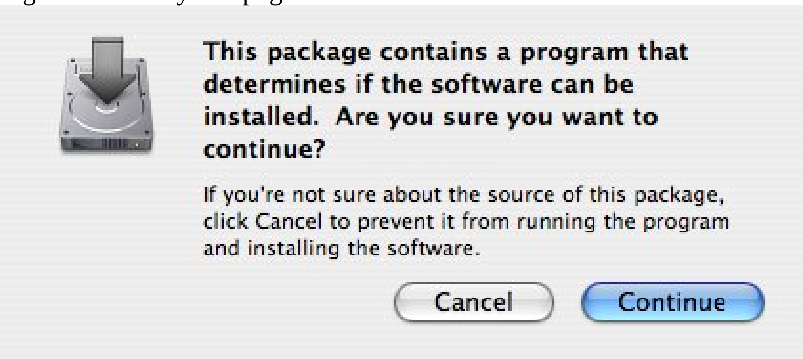
Double-click on the mpkg file to run the installer. Follow the on-screen instructions as indicated below to complete the installation:

Figure 7.2. ee-mys-01.png


OpenLink-MySQL-EE-UDA6.0-MacOSX-10.4-Universal
tjtpbg4
iDisk
Network
Macintosh HD
OpenLink-PostgreSQL-EE-UDA6.0-MacOSX-10.4-Universal
OpenLink-MySQL-EE-UDA6.0-MacOSX-10.4-Universal
Desktop
macted
Applications
Documents
Movies
Music
Pictures
VersionTracker Downloads
Downloads & Attachments
Software Downloads
mp3s.savedSearch
Utilities
.Trashes
OpenLink-MySQL-ExpressEdition.mpkg
1 of 2 selected, 35.1 MB available

When prompted, permit the verification script to run. This simply checks to see that you are running a version of Mac OS X later than 10.3.0:

Figure 7.3. ee-mys-02.png

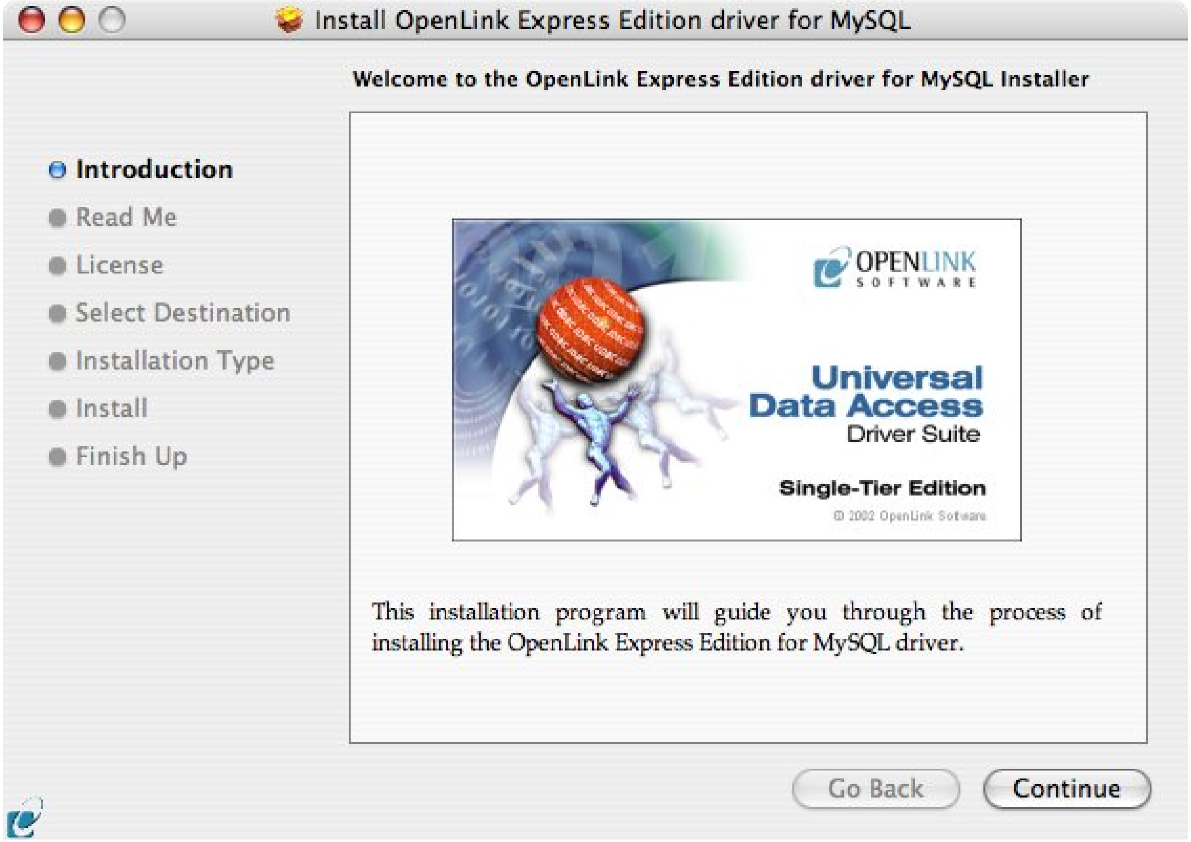


This package contains a program that determines if the software can be installed. Are you sure you want to continue?

If you're not sure about the source of this package, click Cancel to prevent it from running the program and installing the software.

Review the *Welcome* message to confirm you're installing the right driver:

Figure 7.4. ee-mys-03.png

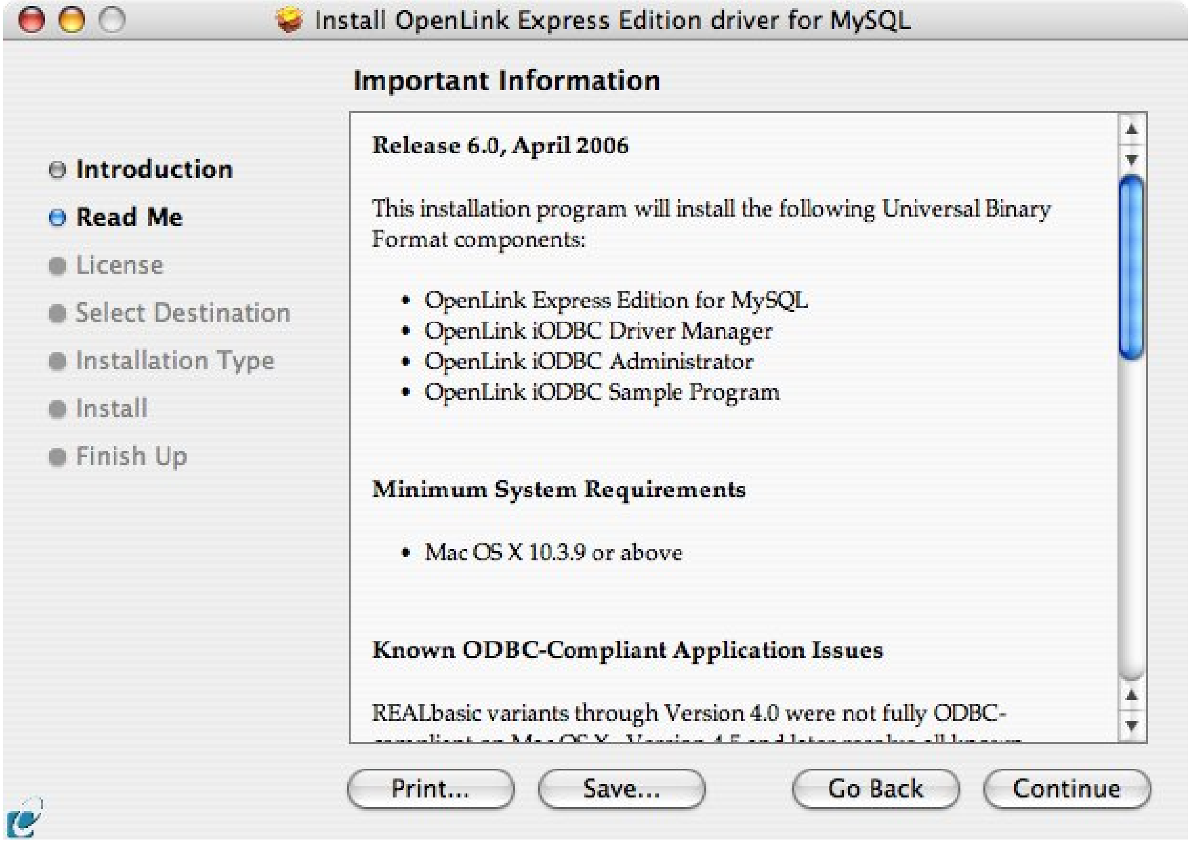


Welcome to the OpenLink Express Edition driver for MySQL Installer

This installation program will guide you through the process of installing the OpenLink Express Edition for MySQL driver.

Review the *ReadMe* for installation requirements and any known issues:

Figure 7.5. ee-mys-04.png



Important Information

Release 6.0, April 2006

This installation program will install the following Universal Binary Format components:

- OpenLink Express Edition for MySQL
- OpenLink iODBC Driver Manager
- OpenLink iODBC Administrator
- OpenLink iODBC Sample Program

Minimum System Requirements

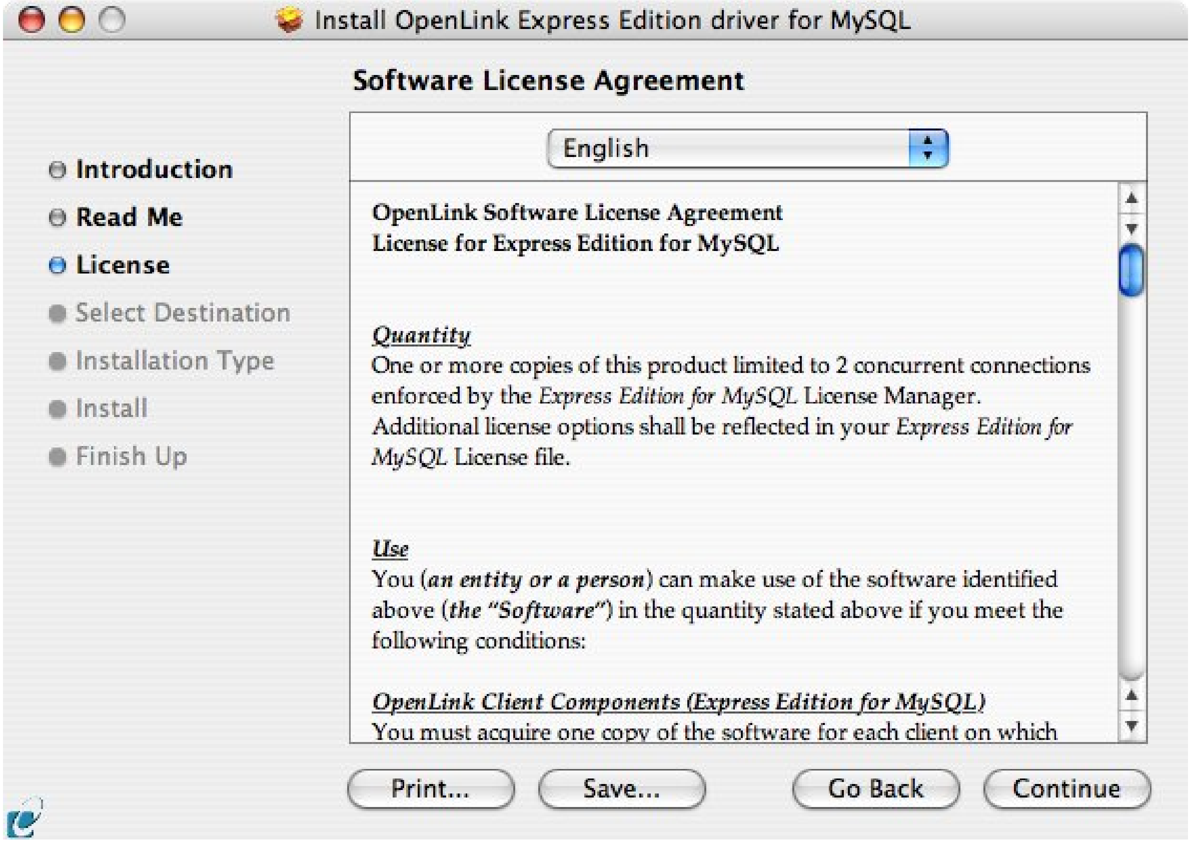
- Mac OS X 10.3.9 or above

Known ODBC-Compliant Application Issues

REALbasic variants through Version 4.0 were not fully ODBC-

Please read and agree to the *Software License Agreement* before continuing your installation:

Figure 7.6. ee-mys-05.png



Software License Agreement

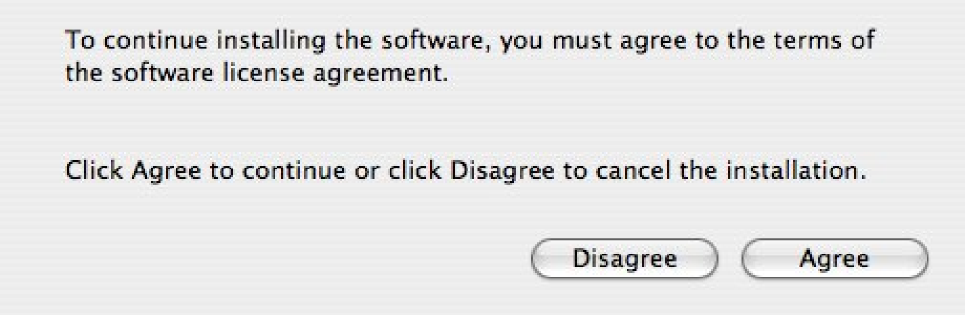
OpenLink Software License Agreement
License for Express Edition for MySQL

Quantity
One or more copies of this product limited to 2 concurrent connections enforced by the *Express Edition for MySQL* License Manager. Additional license options shall be reflected in your *Express Edition for MySQL* License file.

Use
You (***an entity or a person***) can make use of the software identified above (***the "Software"***) in the quantity stated above if you meet the following conditions:

OpenLink Client Components (Express Edition for MySQL)
You must acquire one copy of the software for each client on which

Figure 7.7. ee-mys-06.png

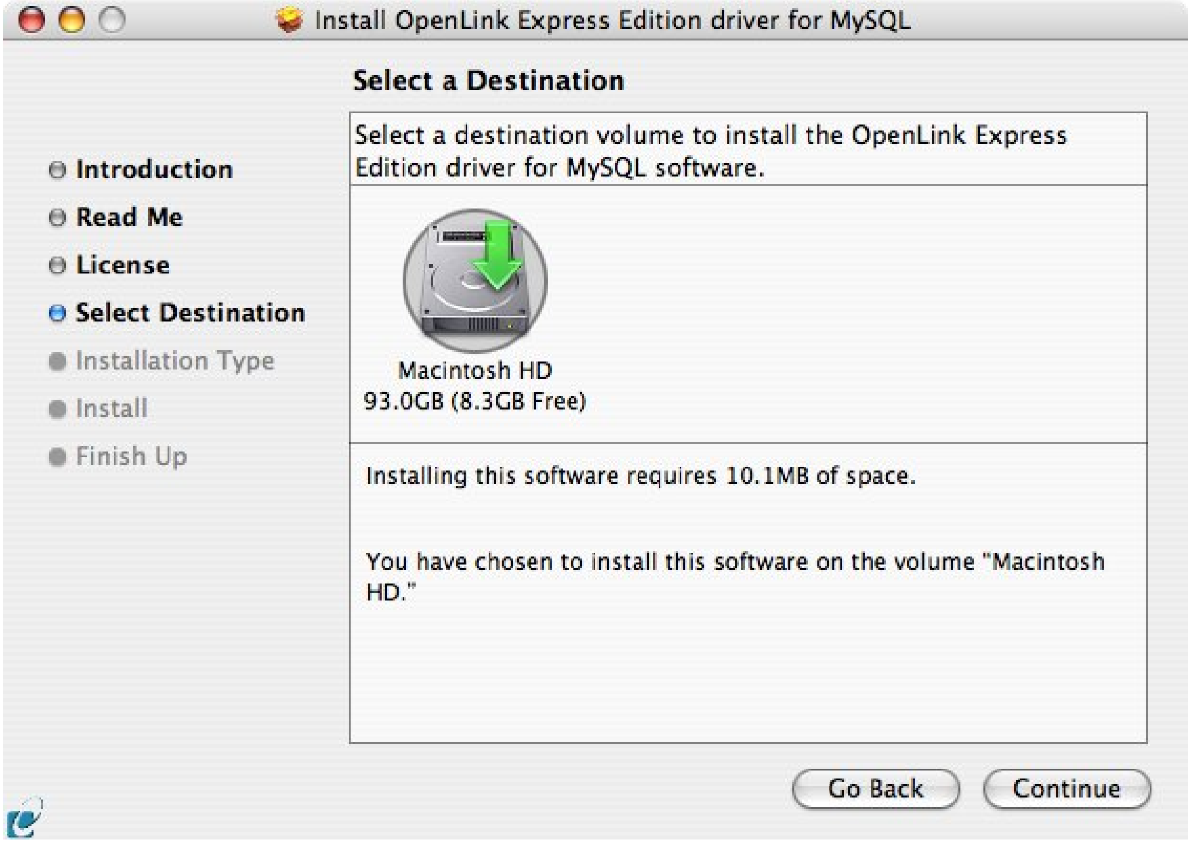


To continue installing the software, you must agree to the terms of the software license agreement.

Click Agree to continue or click Disagree to cancel the installation.

Select the destination volume for driver installation:

Figure 7.8. ee-mys-07.png



Select a Destination

Select a destination volume to install the OpenLink Express Edition driver for MySQL software.

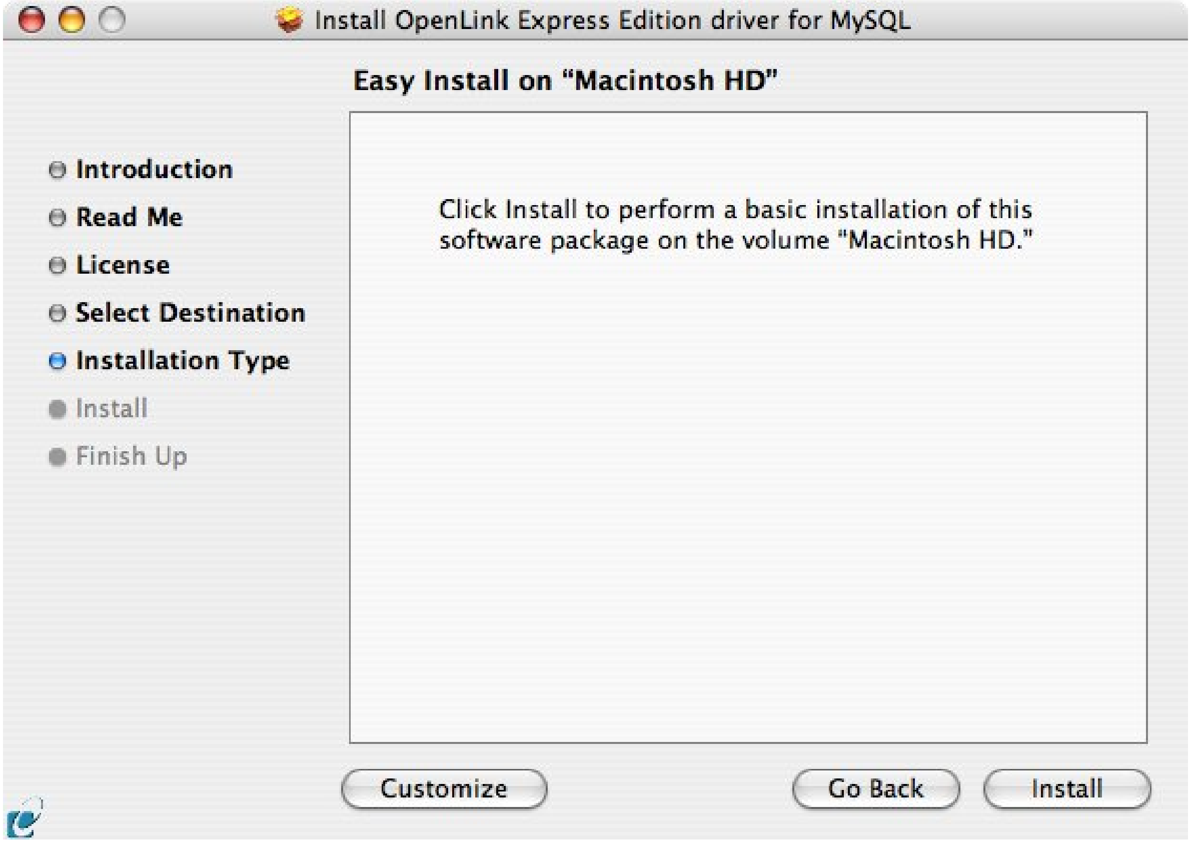
Macintosh HD
93.0GB (8.3GB Free)

Installing this software requires 10.1MB of space.

You have chosen to install this software on the volume "Macintosh HD."

Accept the default installation of the driver, or click *Customize* to select specific components for installation:

Figure 7.9. ee-mys-08.png

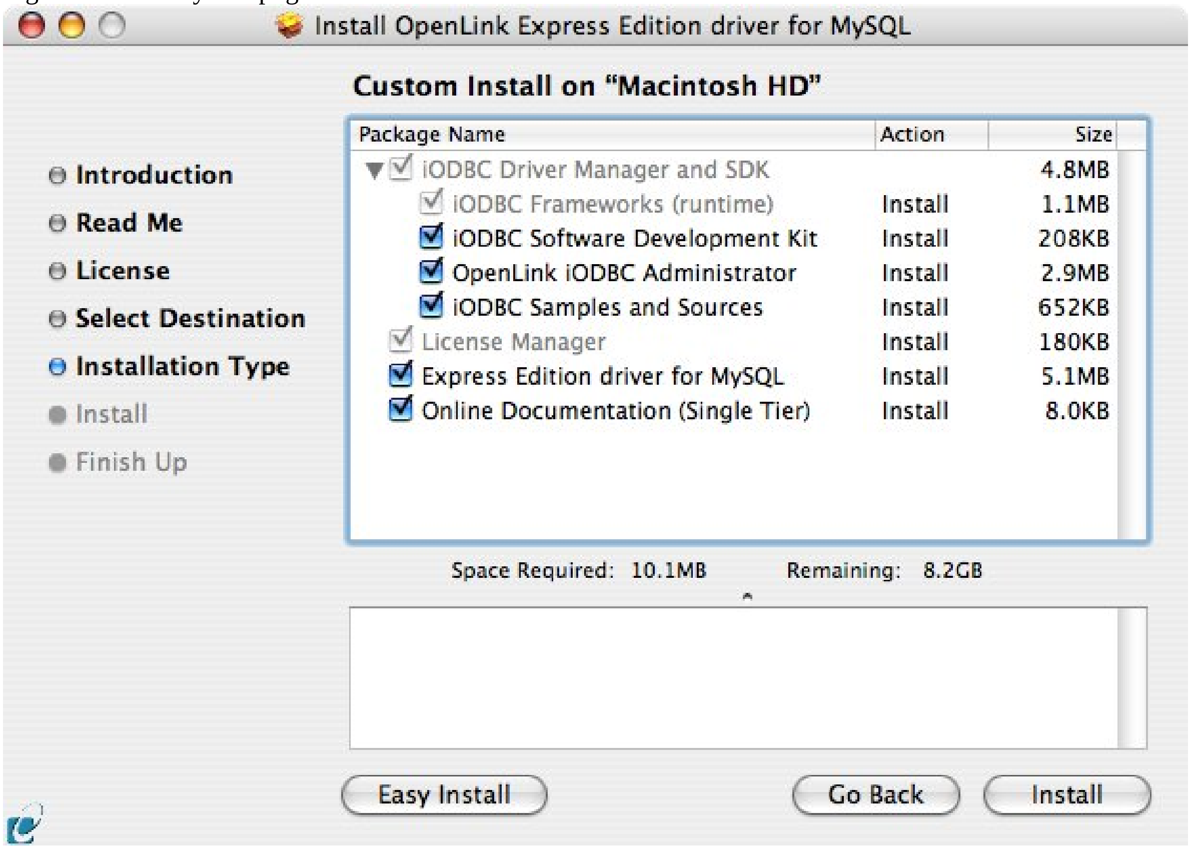


Easy Install on “Macintosh HD”

Click Install to perform a basic installation of this software package on the volume “Macintosh HD.”

Select the components to be installed, or click *Easy Install* to return to the default:

Figure 7.10. ee-mys-09.png



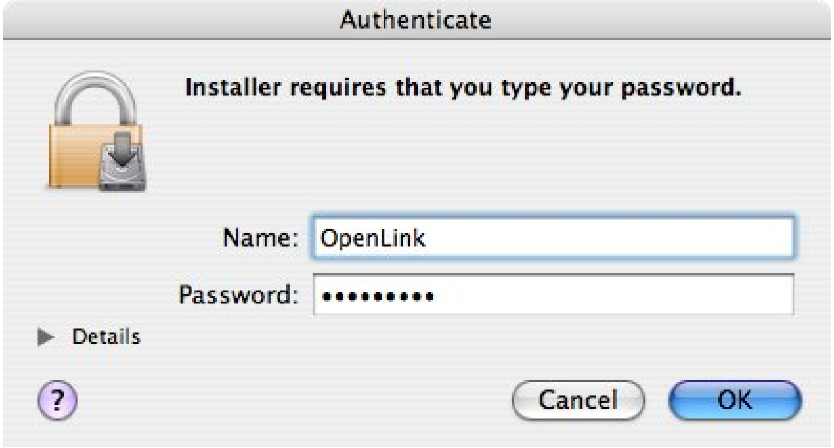
Custom Install on "Macintosh HD"

Package Name	Action	Size
▼ ☑ iODBC Driver Manager and SDK		4.8MB
☑ iODBC Frameworks (runtime)	Install	1.1MB
☑ iODBC Software Development Kit	Install	208KB
☑ OpenLink iODBC Administrator	Install	2.9MB
☑ iODBC Samples and Sources	Install	652KB
☑ License Manager	Install	180KB
☑ Express Edition driver for MySQL	Install	5.1MB
☑ Online Documentation (Single Tier)	Install	8.0KB

Space Required: 10.1MB Remaining: 8.2GB

The Software must be installed as a user with Administrative privileges on the machine. When prompted, provide a relevant username and password:

Figure 7.11. ee-mys-10.png



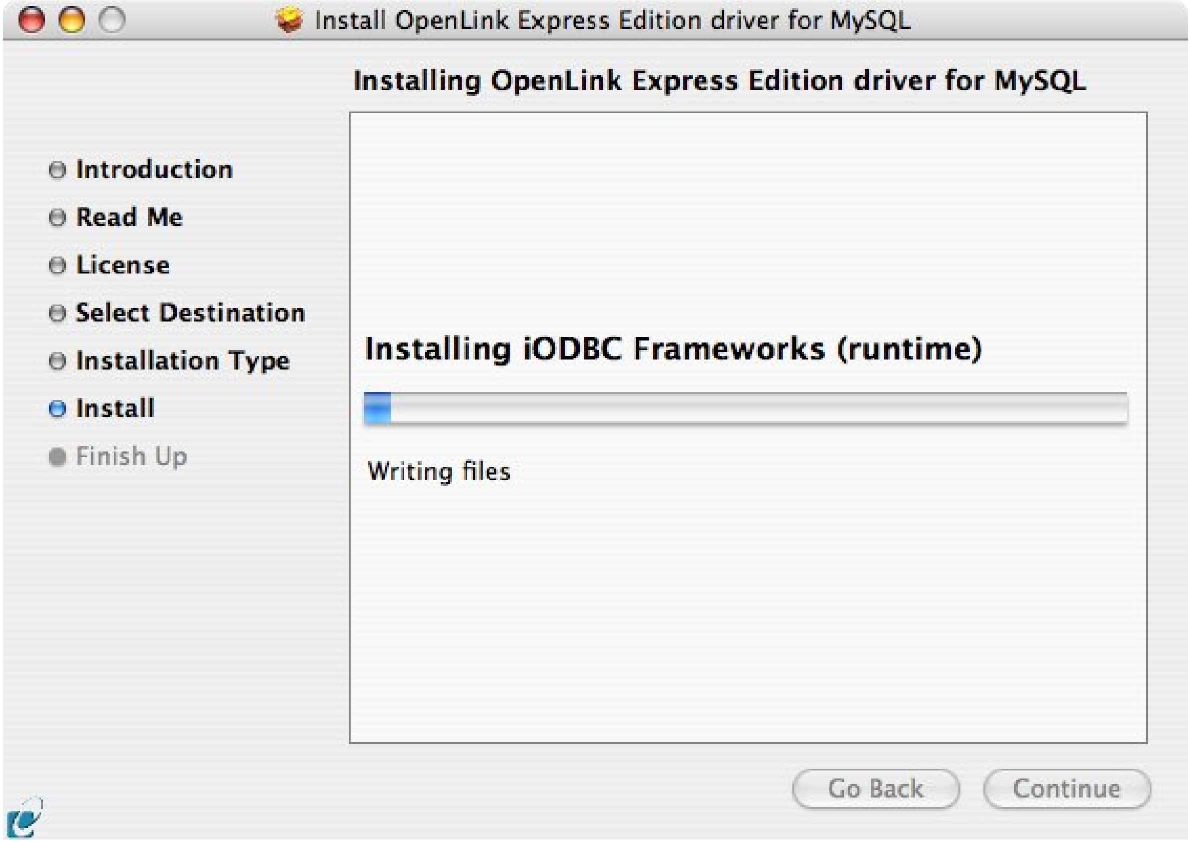
Installer requires that you type your password.

Name: OpenLink

Password: •••••••••

Installation will proceed.

Figure 7.12. ee-mys-11.png



Install OpenLink Express Edition driver for MySQL

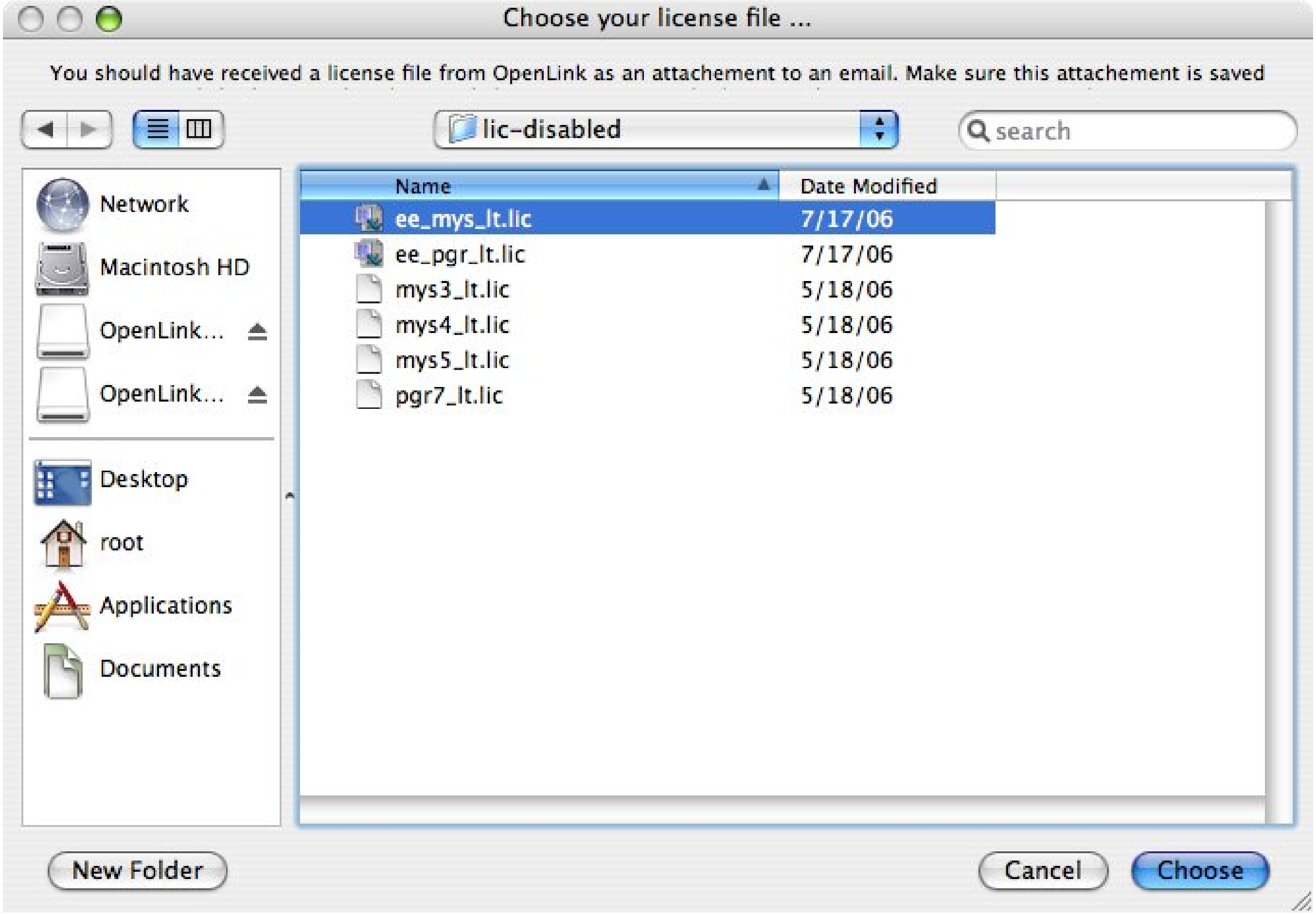
Installing OpenLink Express Edition driver for MySQL

Installing iODBC Frameworks (runtime)

Writing files

During installation, you will be prompted to select a license file for the driver. If such a license file already exists on the machine, then select the 'use existing file' option.

Figure 7.13. ee-mys-15.png



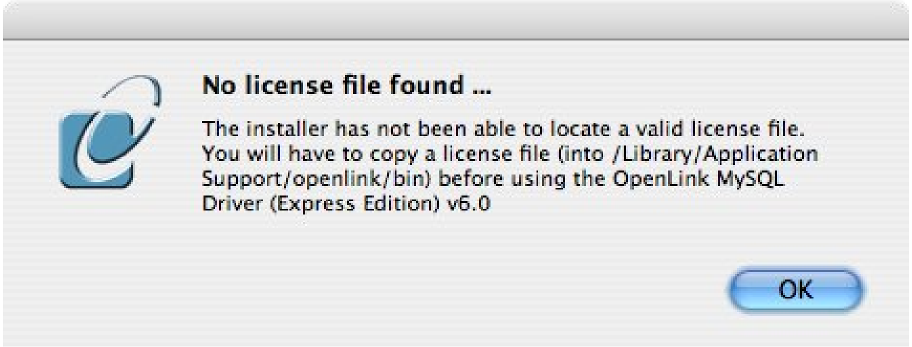
Choose your license file ...

You should have received a license file from OpenLink as an attachement to an email. Make sure this attachement is saved

Name	Date Modified
ee_mys_lt.lic	7/17/06
ee_pgr_lt.lic	7/17/06
mys3_lt.lic	5/18/06
mys4_lt.lic	5/18/06
mys5_lt.lic	5/18/06
pgr7_lt.lic	5/18/06

If you accidentally clicked this option, you can cancel out of the selection dialog. As the following alert will explain, you can manually apply the license file at any point in the future:

Figure 7.14. ee-mys-16.png

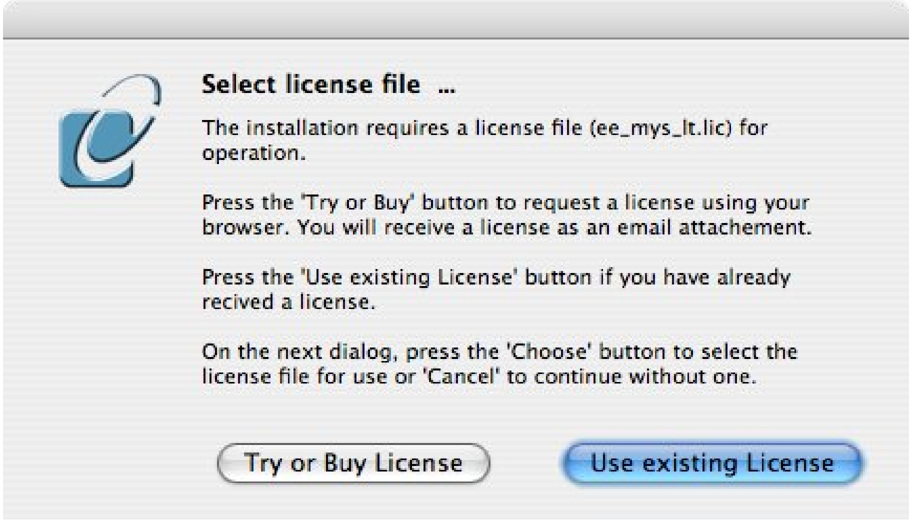


No license file found ...

The installer has not been able to locate a valid license file. You will have to copy a license file (into /Library/Application Support/openlink/bin) before using the OpenLink MySQL Driver (Express Edition) v6.0

A trial or permanent license may be obtained by selecting the *Try and Buy* option which loads our online try and buy web page:

Figure 7.15. ee-mys-12.png



Select license file ...

The installation requires a license file (ee_mys_lt.lic) for operation.

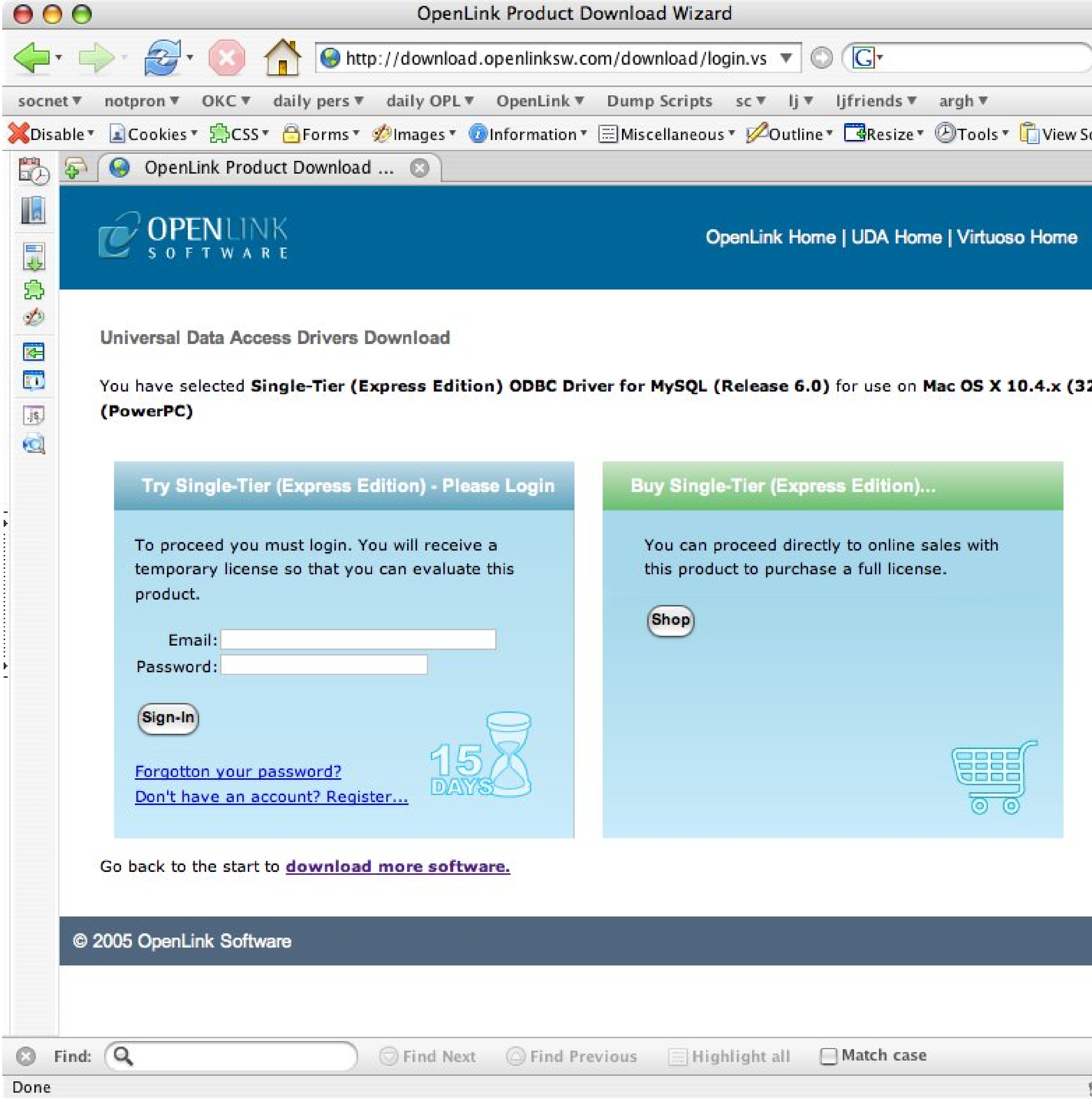
Press the 'Try or Buy' button to request a license using your browser. You will receive a license as an email attachement.

Press the 'Use existing License' button if you have already recived a license.

On the next dialog, press the 'Choose' button to select the license file for use or 'Cancel' to continue without one.

A permanent license may be obtained by clicking on the 'Shop' link to visit our online store, or you may obtain a trial license by registering with and logging in to the OpenLink Web site:

Figure 7.16. ee-mys-13.png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http://download.openlinksw.com/download/login.vs
socnet ▼ notpron ▼ OKC ▼ daily pers ▼ daily OPL ▼ OpenLink ▼ Dump Scripts sc ▼ lj ▼ ljfriends ▼ argh ▼
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Universal Data Access Drivers Download

You have selected **Single-Tier (Express Edition) ODBC Driver for MySQL (Release 6.0)** for use on **Mac OS X 10.4.x (32 (PowerPC)**

Try Single-Tier (Express Edition) - Please Login

To proceed you must login. You will receive a temporary license so that you can evaluate this product.

Email:

Password:

Sign-In
Forgotton your password?
Don't have an account? Register...
15 DAYS

Buy Single-Tier (Express Edition)...

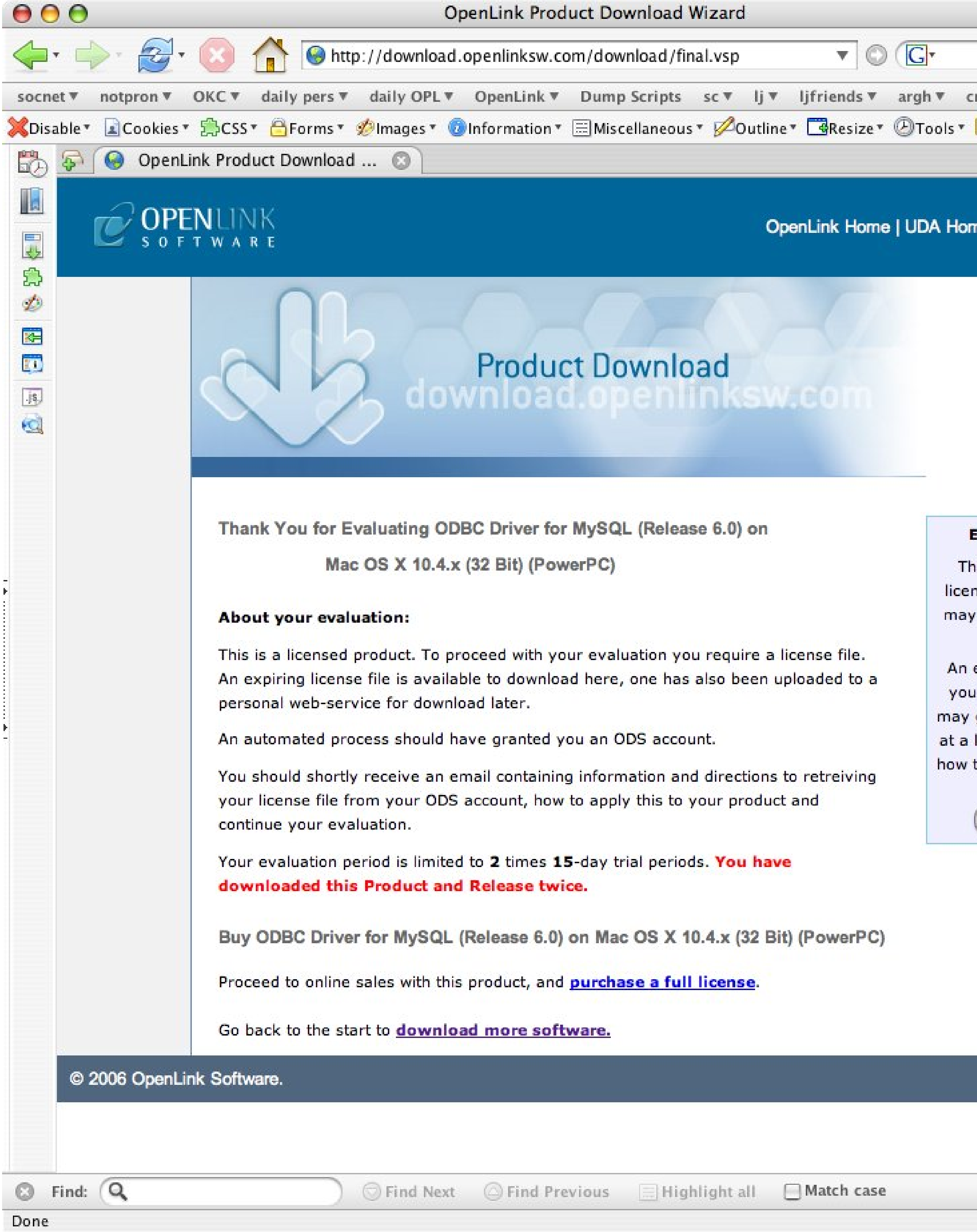
You can proceed directly to online sales with this product to purchase a full license.

Go back to the start to **download more software.**

© 2005 OpenLink Software

Click on the 'Download License' button to immediately obtain an evaluation license file; it will be saved to your Browser's download folder (which typically defaults to your desktop). A message will also be sent to your email address with a link to your OpenLink Data Space (ODS) Briefcase, where all non-expired trial and full license files will be stored for download at your convenience.

Figure 7.17. ee-mys-14.png



OpenLink Product Download Wizard
http://download.openlinksw.com/download/final.vsp
socnet ▾ notpron ▾ OKC ▾ daily pers ▾ daily OPL ▾ OpenLink ▾ Dump Scripts sc ▾ lj ▾ ljfriends ▾ argh ▾
Disable ▾ Cookies ▾ CSS ▾ Forms ▾ Images ▾ Information ▾ Miscellaneous ▾ Outline ▾ Resize ▾ Tools ▾
OpenLink Product Download ...
OPENLINK SOFTWARE
OpenLink Home | UDA Hom
Product Download
download.openlinksw.com

Thank You for Evaluating ODBC Driver for MySQL (Release 6.0) on

Mac OS X 10.4.x (32 Bit) (PowerPC)

About your evaluation:

This is a licensed product. To proceed with your evaluation you require a license file. An expiring license file is available to download here, one has also been uploaded to a personal web-service for download later.

An automated process should have granted you an ODS account.

You should shortly receive an email containing information and directions to retreiving your license file from your ODS account, how to apply this to your product and continue your evaluation.

Your evaluation period is limited to **2** times **15**-day trial periods. **You have downloaded this Product and Release twice.**

Buy ODBC Driver for MySQL (Release 6.0) on Mac OS X 10.4.x (32 Bit) (PowerPC)

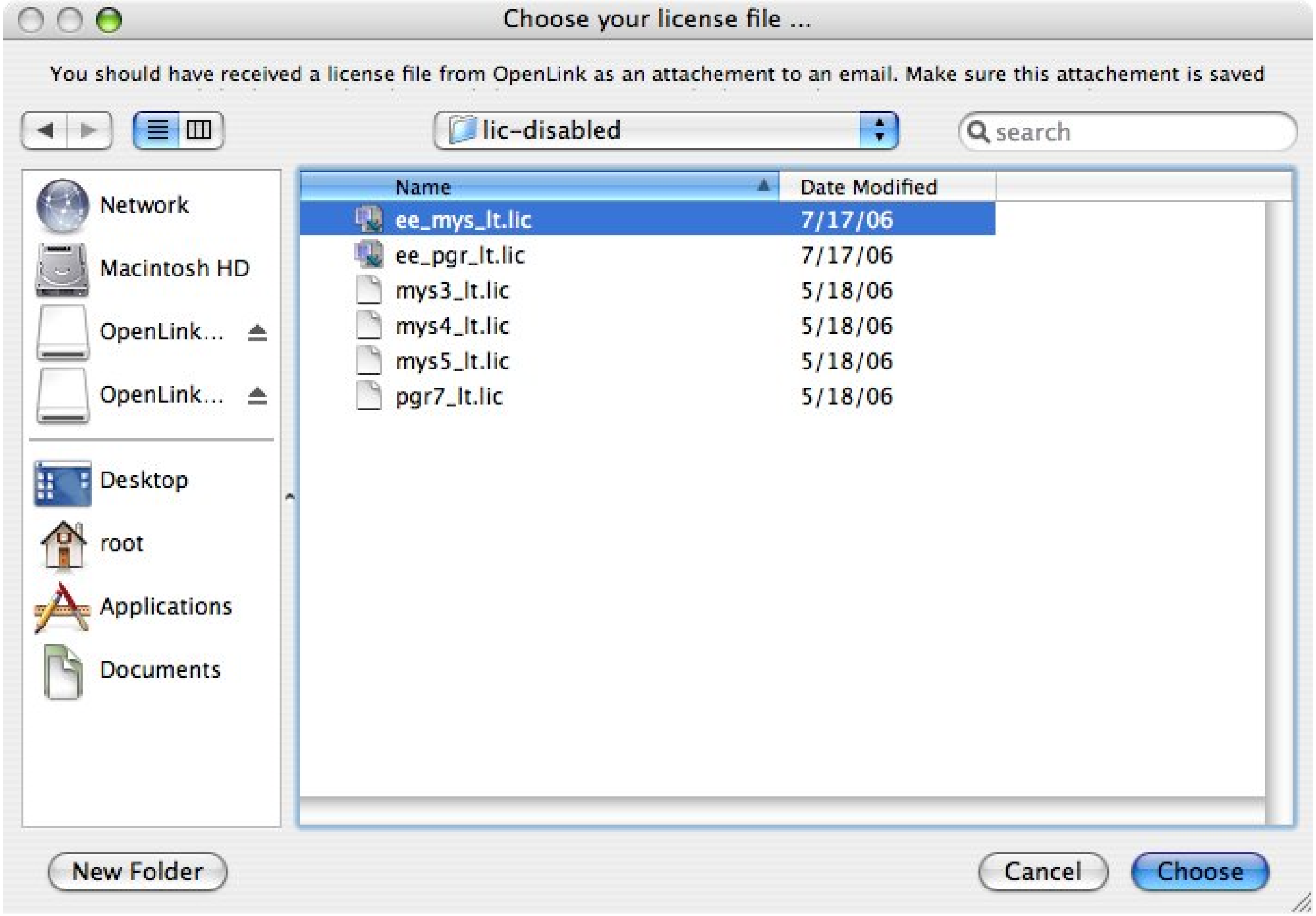
Proceed to online sales with this product, and **purchase a full license**.

Go back to the start to **download more software.**

© 2006 OpenLink Software.

Close the browser, and proceed as if you had selected the option to *use existing file*. Select the license file to be used for the installation:

Figure 7.18. ee-mys-15.png



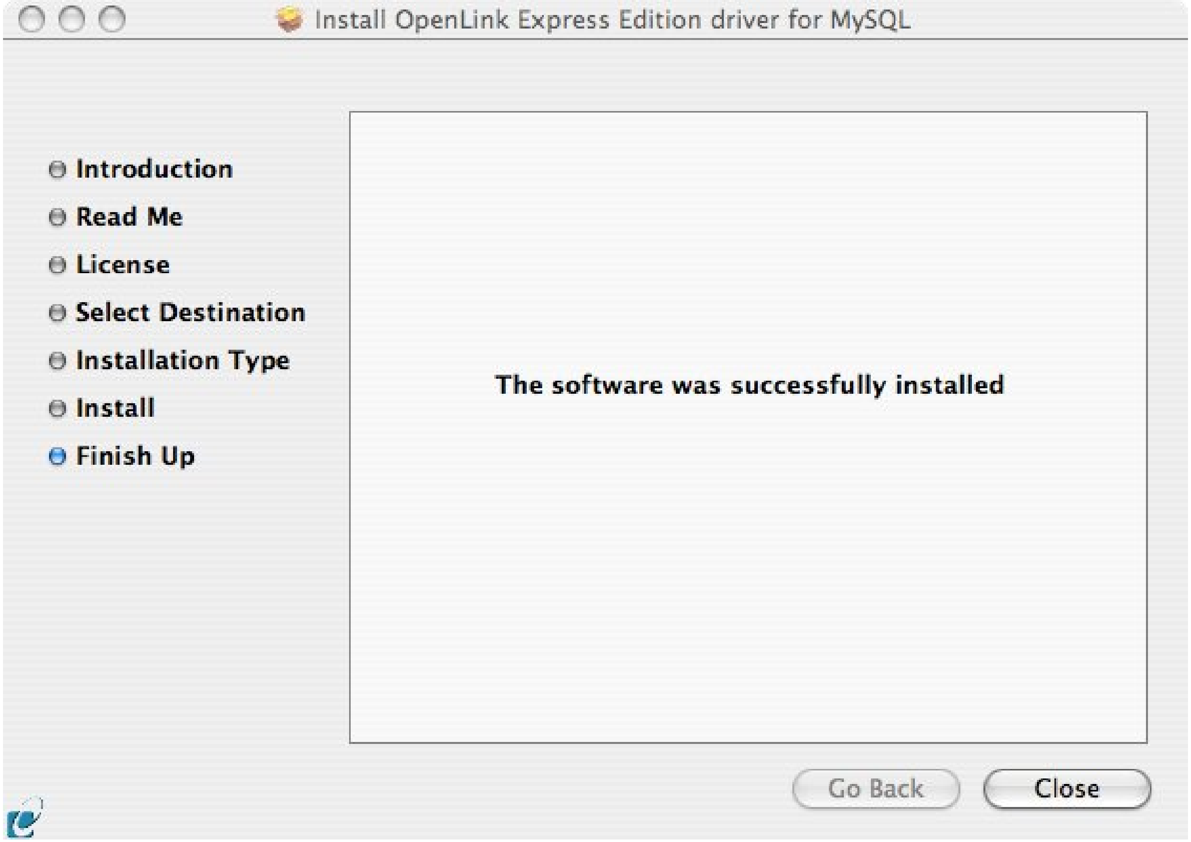
Choose your license file ...

You should have received a license file from OpenLink as an attachement to an email. Make sure this attachement is saved

Name	Date Modified
ee_mys_lt.lic	7/17/06
ee_pgr_lt.lic	7/17/06
mys3_lt.lic	5/18/06
mys4_lt.lic	5/18/06
mys5_lt.lic	5/18/06
pgr7_lt.lic	5/18/06

Installation is now complete, and you can exit the Installer and proceed to configure a DSN:

Figure 7.19. ee-mys-17.png



Install OpenLink Express Edition driver for MySQL

The software was successfully installed

8.1.2 Configuration

To configure an ODBC DSN, double-click the *OpenLink ODBC Administrator.app* located in /Applications/Utilities/, or the *iODBC Administrator.app* located in /Applications/iODBC/:

Figure 7.20. ee-mys-18.png

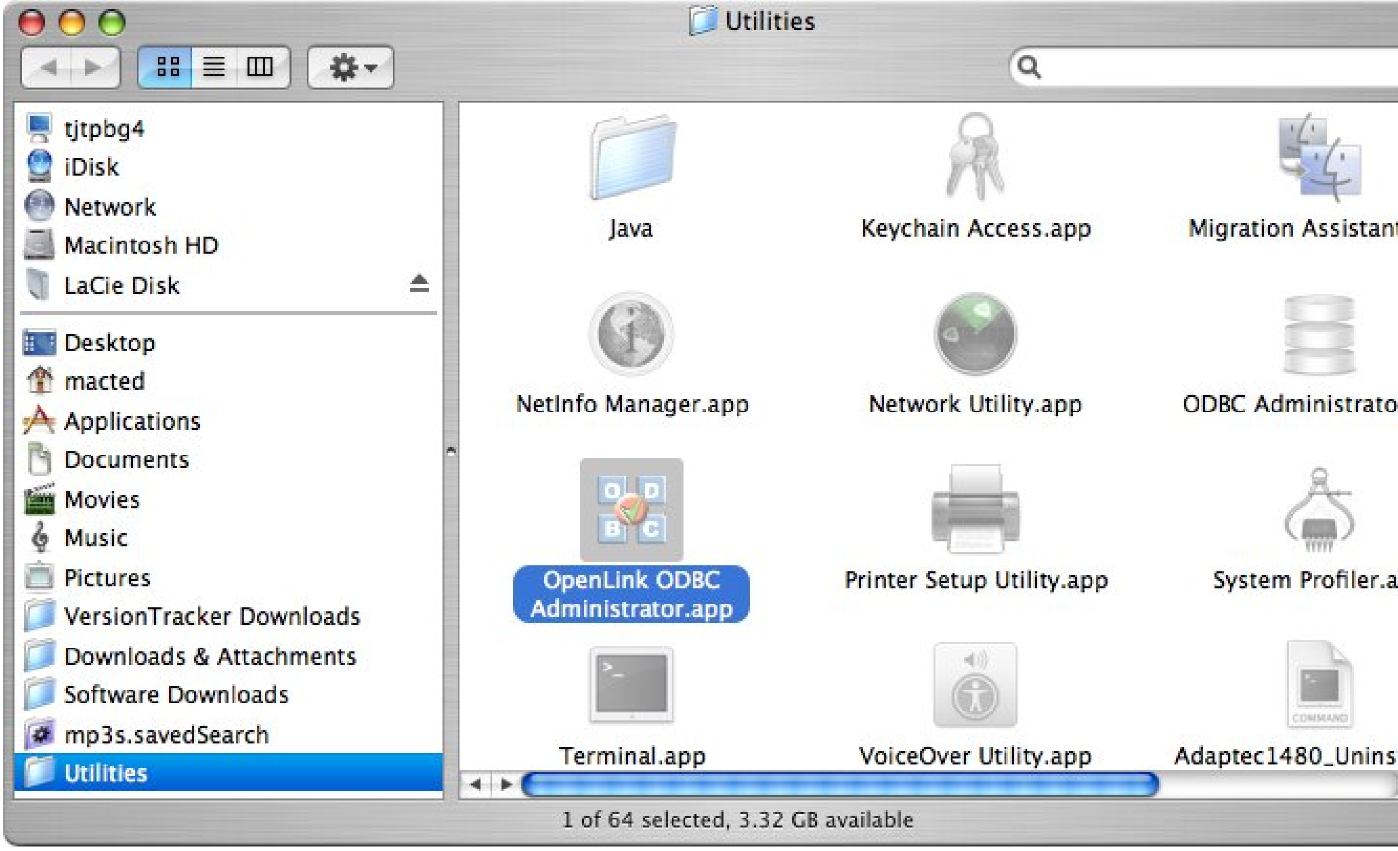
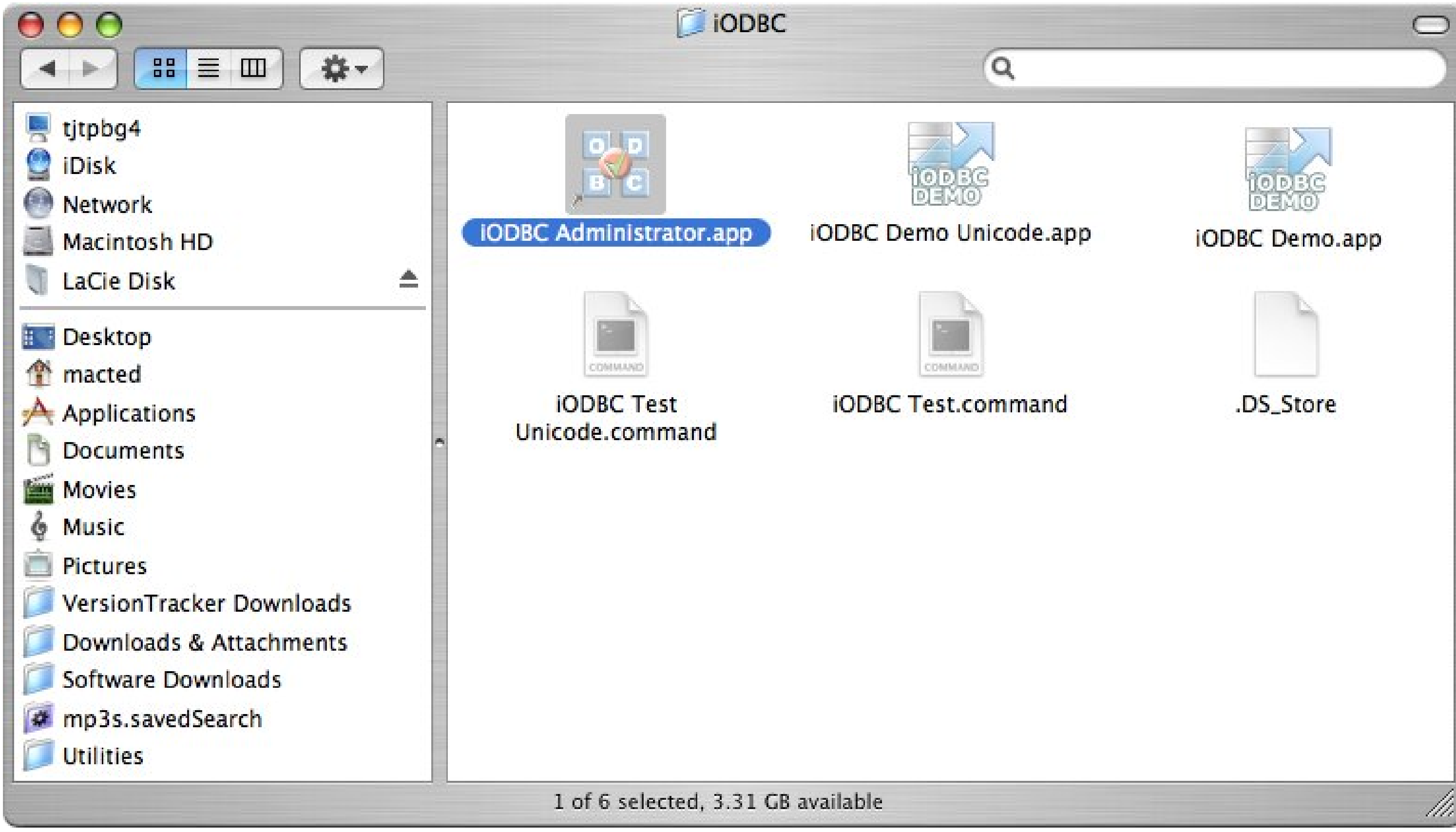


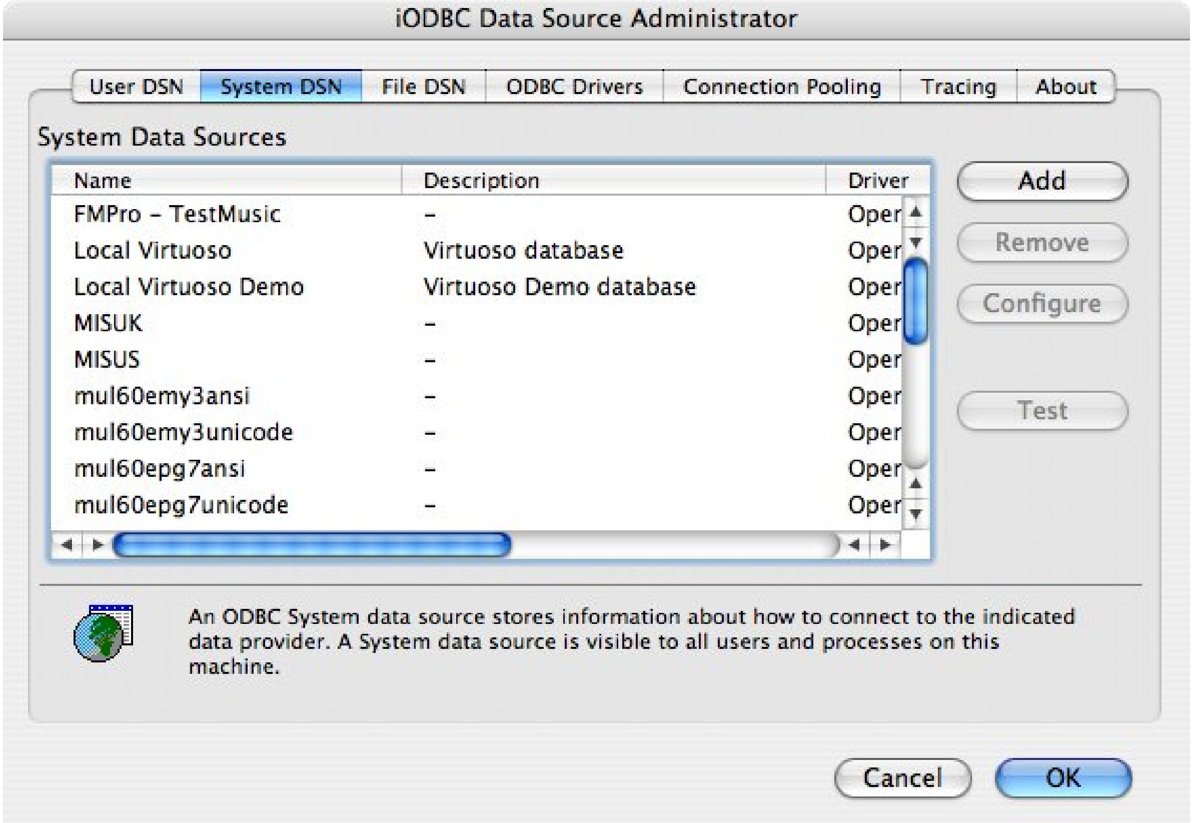
Figure 7.21. ee-mys-19.png



1 of 6 selected, 3.31 GB available

Click on the *Add* button, to create a new DSN (Data Source Name):

Figure 7.22. ee-mys-20.png



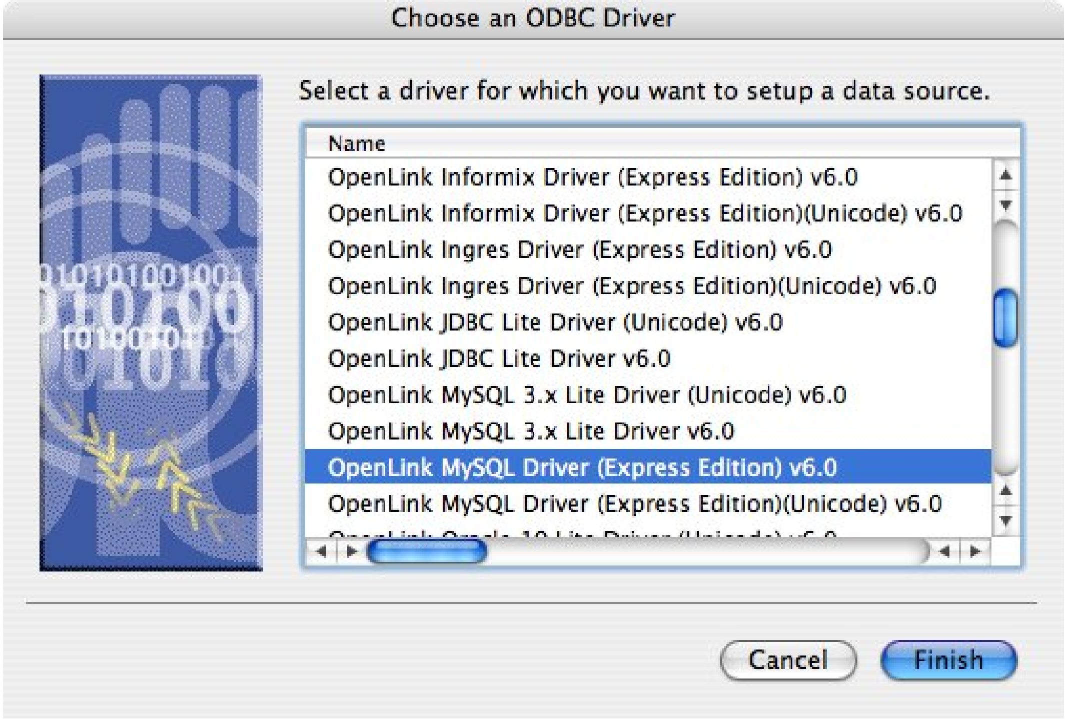
System Data Sources

Name	Description	Driver
FMPro – TestMusic	–	Oper
Local Virtuoso	Virtuoso database	Oper
Local Virtuoso Demo	Virtuoso Demo database	Oper
MISUK	–	Oper
MISUS	–	Oper
mul60emy3ansi	–	Oper
mul60emy3unicode	–	Oper
mul60epg7ansi	–	Oper
mul60epg7unicode	–	Oper

An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users and processes on this machine.

Choose the *OpenLink MySQL Driver (Express Edition) v6.0* from the list of available drivers. Choose the *OpenLink MySQL Driver (Express Edition)(Unicode) v6.0 if and only if* you are working with multi-byte character sets, as unnecessary translations can significantly ODBC performance:

Figure 7.23. ee-mys-21.png



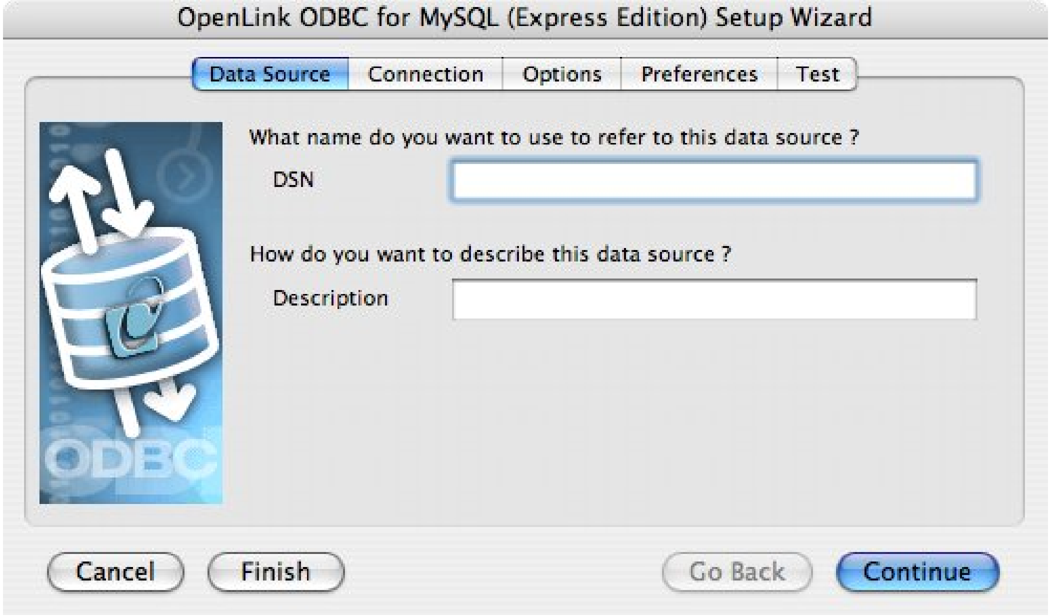
Choose an ODBC Driver

Select a driver for which you want to setup a data source.

Name
OpenLink Informix Driver (Express Edition) v6.0
OpenLink Informix Driver (Express Edition)(Unicode) v6.0
OpenLink Ingres Driver (Express Edition) v6.0
OpenLink Ingres Driver (Express Edition)(Unicode) v6.0
OpenLink JDBC Lite Driver (Unicode) v6.0
OpenLink JDBC Lite Driver v6.0
OpenLink MySQL 3.x Lite Driver (Unicode) v6.0
OpenLink MySQL 3.x Lite Driver v6.0
OpenLink MySQL Driver (Express Edition) v6.0
OpenLink MySQL Driver (Express Edition)(Unicode) v6.0

In the *Data Source* tab, enter a suitable name and optional description for the DSN being created:

Figure 7.24. ee-mys-22.png



OpenLink ODBC for MySQL (Express Edition) Setup Wizard

What name do you want to use to refer to this data source ?

DSN

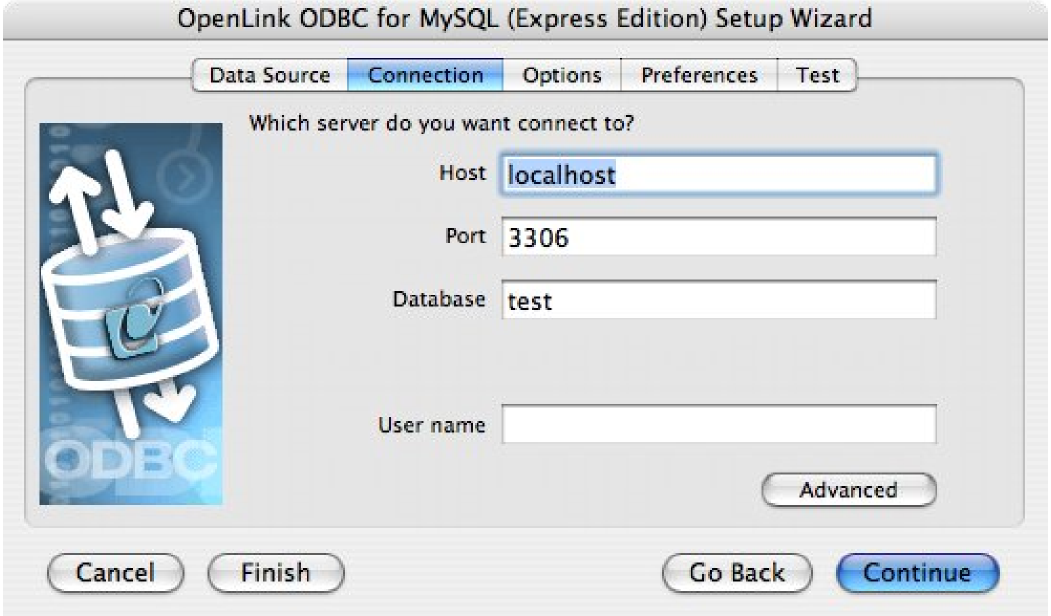
How do you want to describe this data source ?

Description

The *Connection* tab requests the minimum parameters required to make a connection to the target database:

- Host - the name of the server on which the target MySQL instance is running
- Port - the port at which the target MySQL instance is listening (default 3306)
- Database - the name of a valid database on the target MySQL instance
- Username - a valid MySQL username

Figure 7.25. ee-mys-23.png



OpenLink ODBC for MySQL (Express Edition) Setup Wizard

Which server do you want connect to?

Host: localhost

Port: 3306

Database: test

User name:

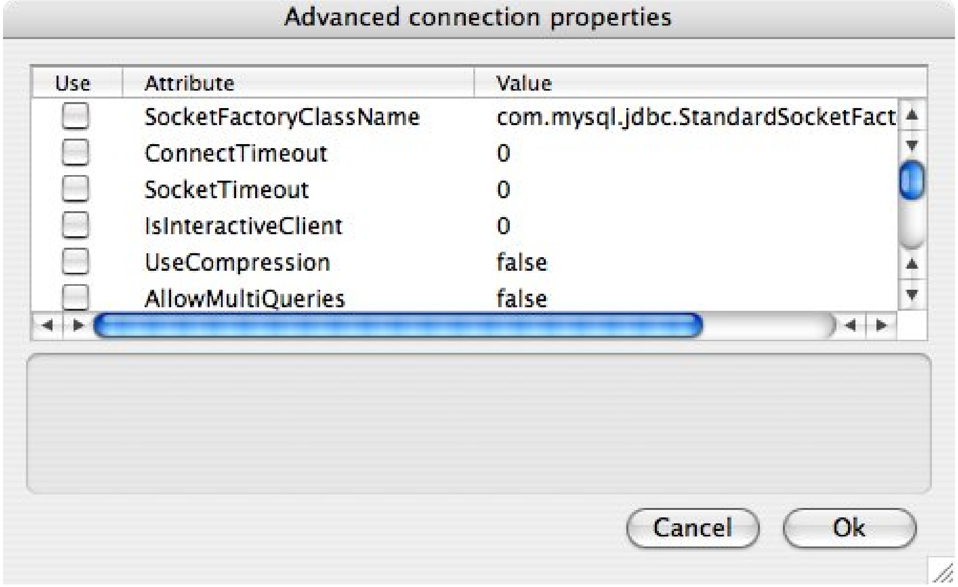
If desired, click the *Advanced* button to set additional parameters relevant to the MySQL connection. None of these need be changed for a basic connection:

Table 7.1.

SocketFactoryClassName	The name of the class that the driver should use for creating socket connections to the server. This class must implement the interface 'com.mysql.jdbc.SocketFactory' and have public no-args constructor.
ConnectTimeout	Timeout for socket connect (in milliseconds), with 0 being no timeout.
SocketTimeout	Timeout on network socket operations (0, the default means no timeout).
IsInteractiveClient	Set the CLIENT_INTERACTIVE flag, which tells MySQL to timeout connections based on INTERACTIVE_TIMEOUT instead of WAIT_TIMEOUT
UseCompression	Use zlib compression when communicating with the server (true/false)?
AllowMultiQueries	Allow the use of ';' to delimit multiple queries during one statement (true/false).
UseSSL	Use SSL when communicating with the server (true/false); defaults to 'false'.
RequireSSL	Require SSL connection if useSSL=true?
AllowUrlInLocalInfile	Should the driver allow URLs in 'LOAD DATA LOCAL INFILE' statements?
Paranoid	Take measures to prevent exposure sensitive information in error messages and clear data structures holding sensitive data when possible?
MetadataCacheSize	The number of queries to cacheResultSetMetadata for if cacheResultSetMetaData is set to 'true'
BlobSendChunkSize	Chunk to use when sending BLOB/CLOBs via ServerPreparedStatements
CacheServerConfiguration	Should the driver cache the results of 'SHOW VARIABLES' and 'SHOW COLLATION' on a per-URL basis?
ElideSetAutoCommits	If using MySQL-4.1 or newer, should the driver only issue 'set autocommit=n' queries when the server's state doesn't match the requested state by Connection.setAutoCommit(boolean)?
UseReadAheadInput	Use newer, optimized non-blocking, buffered input stream when reading from the server?
UseUnicode	Should the driver use Unicode character encodings when handling strings? Should only be used when the driver can't determine the character set mapping, or you are trying to 'force' the driver to use a character set that MySQL either doesn't natively support (such as UTF-8), true/false.
CharacterEncoding	If 'useUnicode' is set to true, what character encoding should the driver use when dealing with strings? (defaults is to 'autodetect')
CharacterSetResults	Character set to tell the server to return results as.
ConnectionCollation	If set, tells the server to use this collation via 'set collation_connection'

SessionVariables A comma-separated list of name/value pairs to be sent as SET SESSION ... to the server when the driver connects.

Figure 7.26. ee-mys-24.png

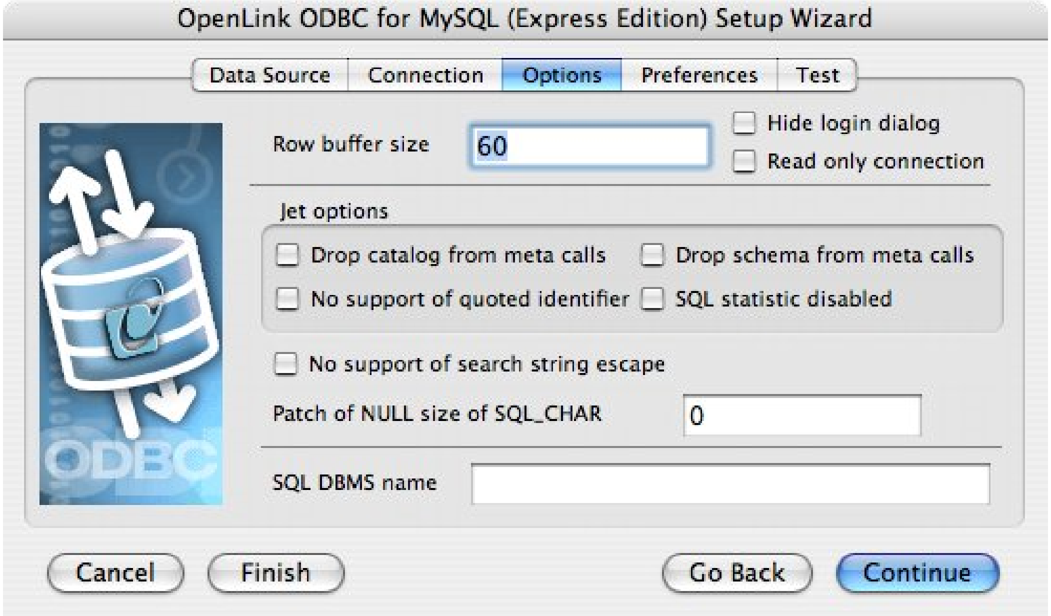


Advanced connection properties

Use	Attribute	Value
□	SocketFactoryClassName	com.mysql.jdbc.StandardSocketFact
□	ConnectTimeout	0
□	SocketTimeout	0
□	IsInteractiveClient	0
□	UseCompression	false
□	AllowMultiQueries	false

As suggested above, the parameters of the *Options* and *Preferences* tabs need not be changed for a basic connection:

Figure 7.27. ee-mys-25.png



OpenLink ODBC for MySQL (Express Edition) Setup Wizard

Row buffer size: 60

□ Hide login dialog

□ Read only connection

Jet options

□ Drop catalog from meta calls

□ Drop schema from meta calls

□ No support of quoted identifier

□ SQL statistic disabled

□ No support of search string escape

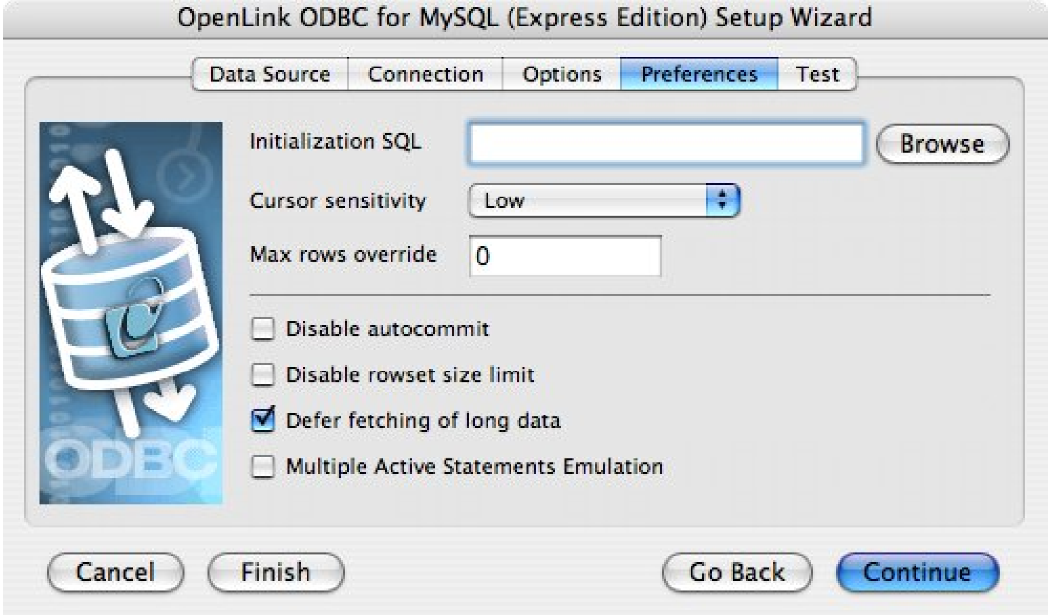
Patch of NULL size of SQL_CHAR: 0

SQL DBMS name:

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.
- *Hide Login Dialog* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.
- *Read Only connection* - Specify whether the connection is to be "Read-only". Make sure the checkbox is unchecked to request a "Read/Write" connection.
- *Drop Catalog from Meta calls* - Enable this option to have the catalog name not appear for tables, views and procedures when requesting database meta-data.
- *Drop Schema from Meta calls* - Enable this option to have the schema-name not appear for tables, views and procedures when requesting database meta-data.
- *SQLStatistics disabled* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table (e.g. what indexes there are on it).

- *No support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if DBMS doesn't support quoted SQL such as select * from "account"
- *No support of search string escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if DBMS doesn't support SQL escape patterns
- *Patch of NULL size of SQL_CHAR* - If set this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0 the driver uses the size returned by the database.
- *SQL_DBMS Name* - Manually override the SQLGetInfo(SQL_DBMS_NAME) response returned by the driver. This is know to be required for products like Microsoft InfoPath for which the return the value should be "SQL Server".

Figure 7.28. ee-mys-26.png



OpenLink ODBC for MySQL (Express Edition) Setup Wizard

Initialization SQL

Cursor sensitivity Low

Max rows override 0

□ Disable autocommit

□ Disable rowset size limit

☑ Defer fetching of long data

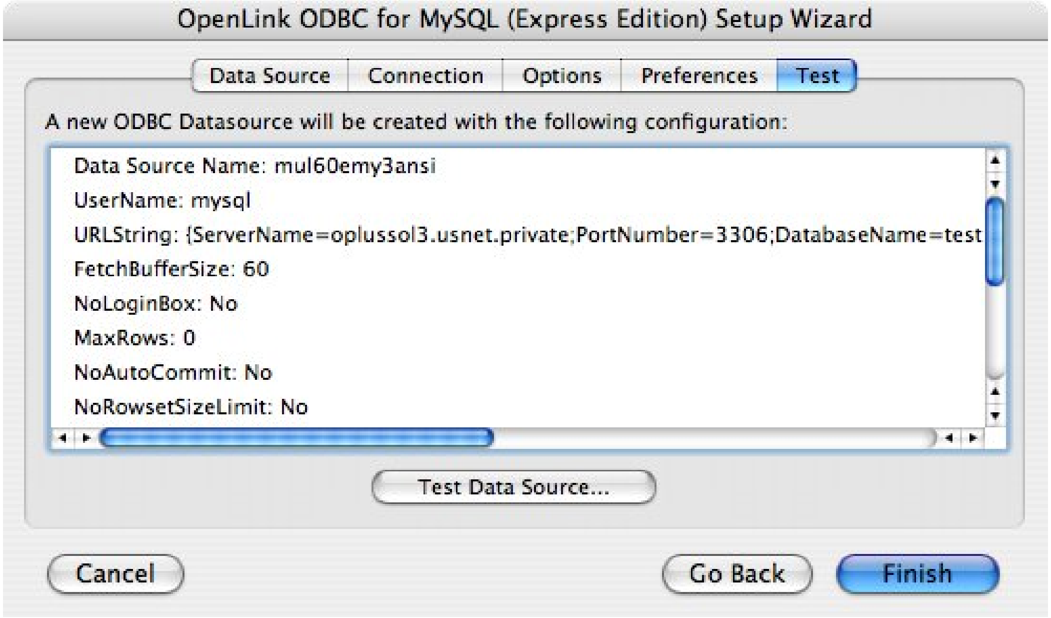
□ Multiple Active Statements Emulation

Initialization SQL - Lets you specify a file containing SQL statements that will be run against the database upon connection, automatically.

- *Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows don't appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate script for the target database.
- *MaxRows Override* - Allows you to define a limit on the maximum number of rows to returned from a query. The default value of 0 means no limit.
- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Express Edition Driver. The default mode is AutoCommit mode (box unchecked).
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset is generated from an erroneous query is very large. The limit is normally never reached.
- *Defer fetching of long data* - Defer fetching of LONG (BINARY, BLOB etc.) data unless explicitly requested in query. This provides significant performance increase when fields in query does not include LONG data fields.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Click on the *Test Data Source* button to make a connection to the database to verify connectivity:

Figure 7.29. ee-mys-27.png



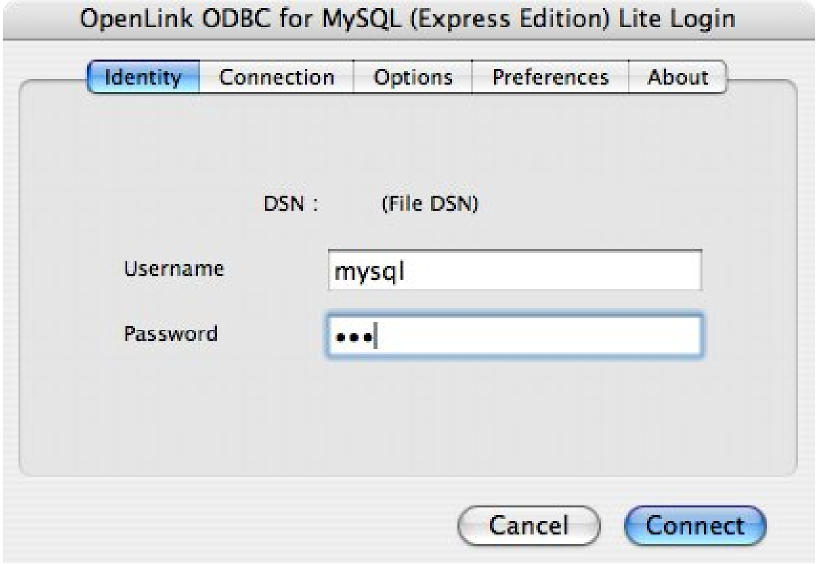
OpenLink ODBC for MySQL (Express Edition) Setup Wizard

A new ODBC Datasource will be created with the following configuration:

Data Source Name: mul60emy3ansi
UserName: mysql
URLString: {ServerName=oplussol3.usnet.private;PortNumber=3306;DatabaseName=test
FetchBufferSize: 60
NoLoginBox: No
MaxRows: 0
NoAutoCommit: No
NoRowsetSizeLimit: No

Enter a valid username and password for the target database:

Figure 7.30. ee-mys-28.png



OpenLink ODBC for MySQL (Express Edition) Lite Login

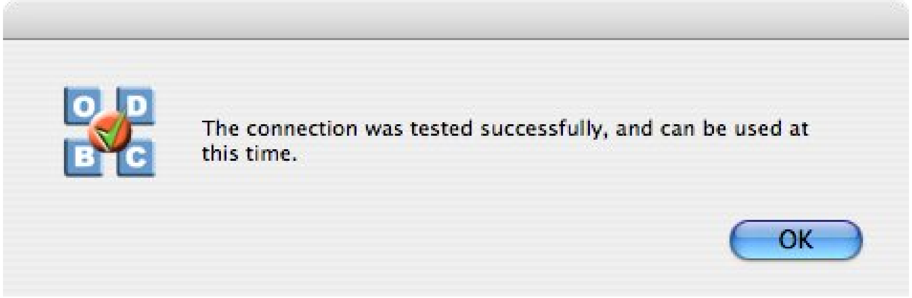
DSN : (File DSN)

Username: mysql

Password: •••

A successful connection to the database has been made:

Figure 7.31. ee-mys-29.png



The connection was tested successfully, and can be used at this time.

8.2 OpenLink ODBC Driver for MySQL (Express Edition) for Windows

8.2.1 Installation

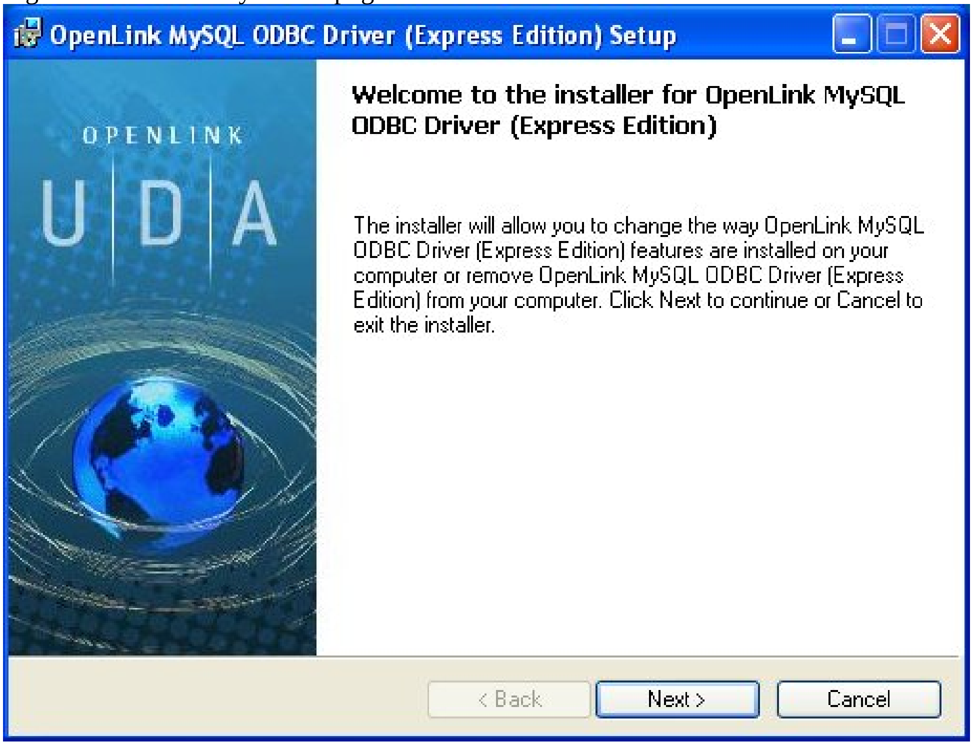
The OpenLink ODBCDriver for MySQL(Express Edition) is distributed as a Windows MSI installer. Simply double click on the installer 'ntl6emys.msi' to commence the installation:

Figure 7.32. EEWinmysinst01.png

ntl6emys
Windows Installer Package
2,184 KB

Installer Welcome Dialog for the OpenLink ODBCDriver for MySQL(Express Edition):

Figure 7.33. EEWinmysinst02.png

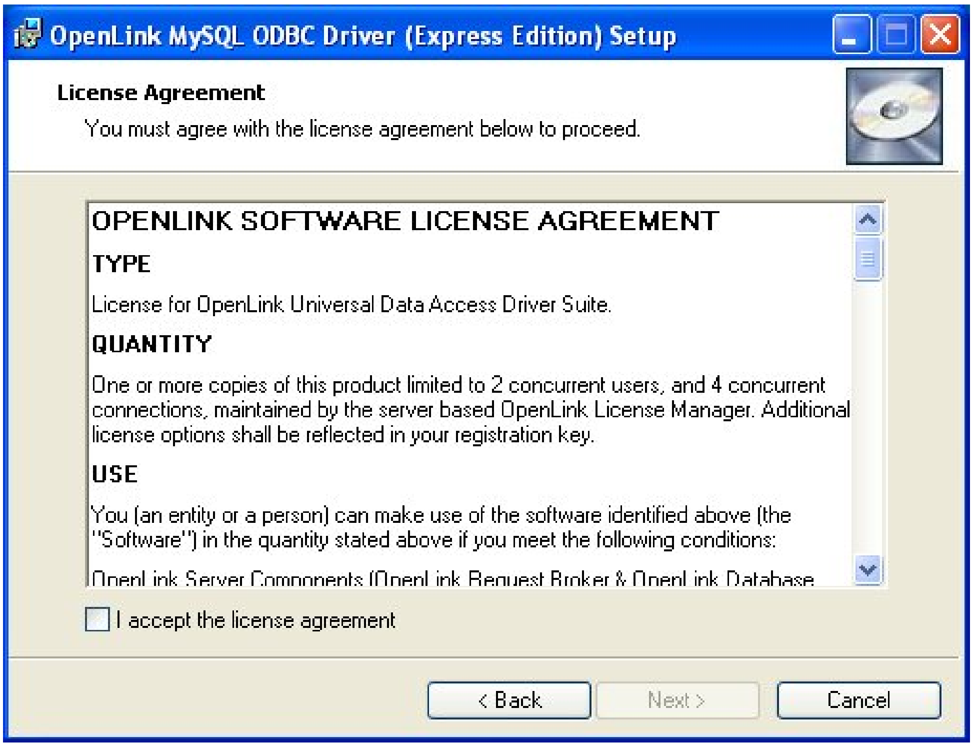


Welcome to the installer for OpenLink MySQL ODBC Driver (Express Edition)

The installer will allow you to change the way OpenLink MySQL ODBC Driver (Express Edition) features are installed on your computer or remove OpenLink MySQL ODBC Driver (Express Edition) from your computer. Click Next to continue or Cancel to exit the installer.

Please read the software license agreement and accept before continuing your installation:

Figure 7.34. EEWinmysinst03.png



License Agreement

You must agree with the license agreement below to proceed.

OPENLINK SOFTWARE LICENSE AGREEMENT

TYPE

License for OpenLink Universal Data Access Driver Suite.

QUANTITY

One or more copies of this product limited to 2 concurrent users, and 4 concurrent connections, maintained by the server based OpenLink License Manager. Additional license options shall be reflected in your registration key.

USE

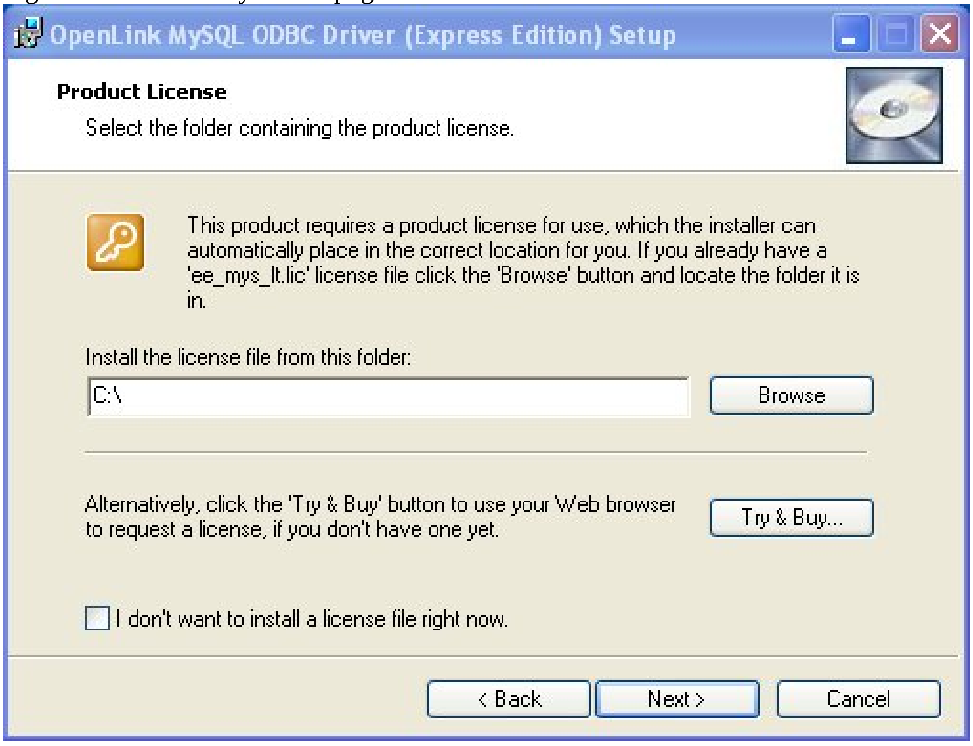
You (an entity or a person) can make use of the software identified above (the "Software") in the quantity stated above if you meet the following conditions:

OpenLink Server Components (OpenLink Request Broker & OpenLink Database

□ I accept the license agreement

Before installation you will be prompted for a license file. If a license file already exists on the machine, then select the 'use exisiting file' option. A trial (try) or full (buy) license can be obtained by selecting the 'try and buy' option, which loads OpenLink's online try and buy web page:

Figure 7.35. EEWinmysinst04.png



Product License

Select the folder containing the product license.

This product requires a product license for use, which the installer can automatically place in the correct location for you. If you already have a 'ee_mys_lt.lic' license file click the 'Browse' button and locate the folder it is in.

Install the license file from this folder:

C:\

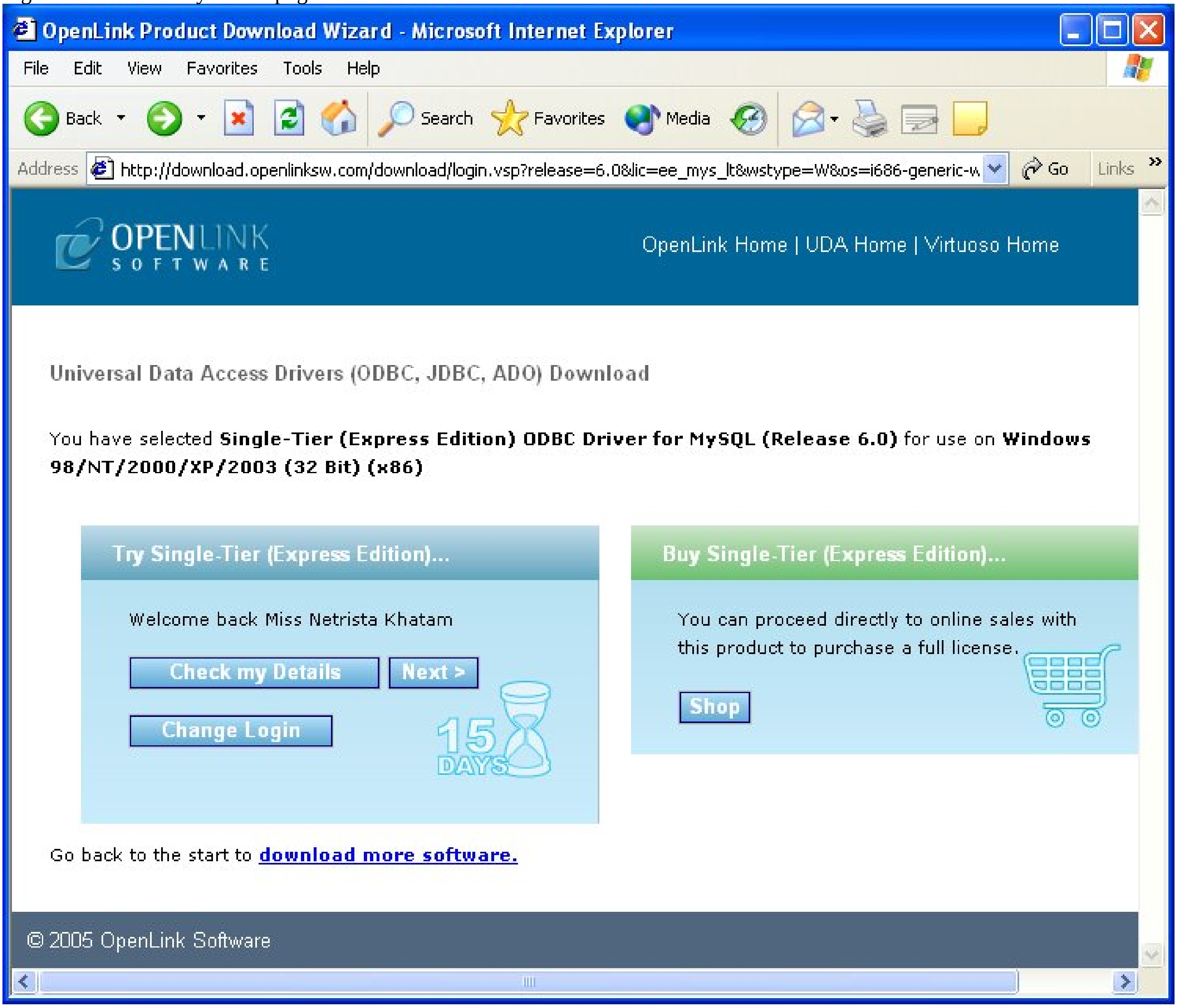
Alternatively, click the 'Try & Buy' button to use your Web browser to request a license, if you don't have one yet.

□ I don't want to install a license file right now.

To obtain the trial license, you must be a registered user on the OpenLinkWeb site and login with your username (e-mail address) and password. Click on the 'Shop' link to visit OpenLink's online shop cart to purchase a full license, if required:

Click on the 'download license' button to immediately obtain the license file and save it to your desktop. Alternatively, an auto-generated e-mail will be sent to your registered e-mail address. This email will contain a link to your OpenLinkData Space (ODS). The OpenLinkData Space (ODS) contains copies of all trial and full license files in a Briefcase for download at a later date.

Figure 7.36. EEWinmysinst05.png



OpenLink Product Download Wizard - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address
Go Links
OPENLINK SOFTWARE
OpenLink Home | UDA Home | Virtuoso Home

http://download.openlinksw.com/download/login.vsp?release=6.0&lic=ee_mys_lt&wstype=W&os=i686-generic-w

Universal Data Access Drivers (ODBC, JDBC, ADO) Download

You have selected **Single-Tier (Express Edition) ODBC Driver for MySQL (Release 6.0)** for use on **Windows 98/NT/2000/XP/2003 (32 Bit) (x86)**

Try Single-Tier (Express Edition)...

Welcome back Miss Netrista Khatam

Check my Details
Next >
Change Login
15 DAYS

Buy Single-Tier (Express Edition)...

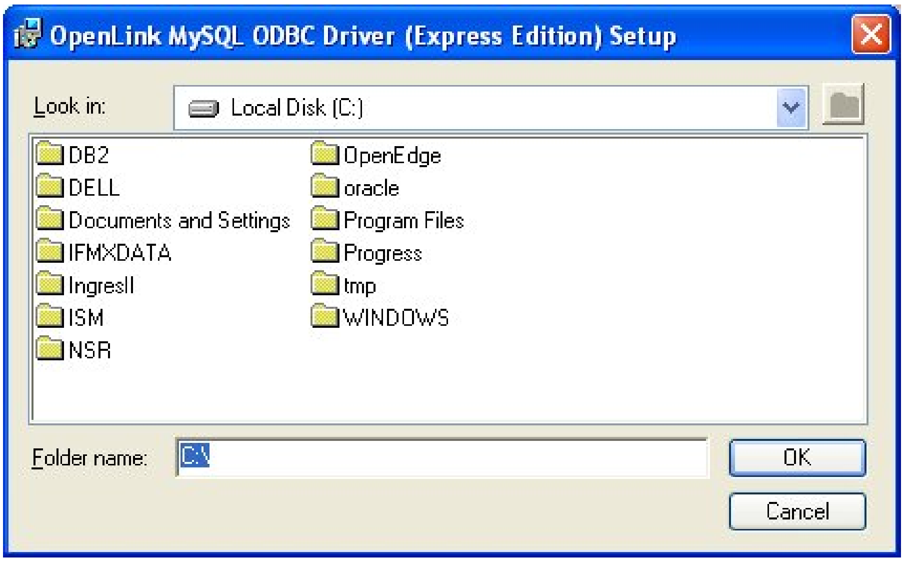
You can proceed directly to online sales with this product to purchase a full license.

Go back to the start to download more software.

© 2005 OpenLink Software

Select the license file to be used for the installation:

Figure 7.37. EEWinmysinst06.png



OpenLink MySQL ODBC Driver (Express Edition) Setup

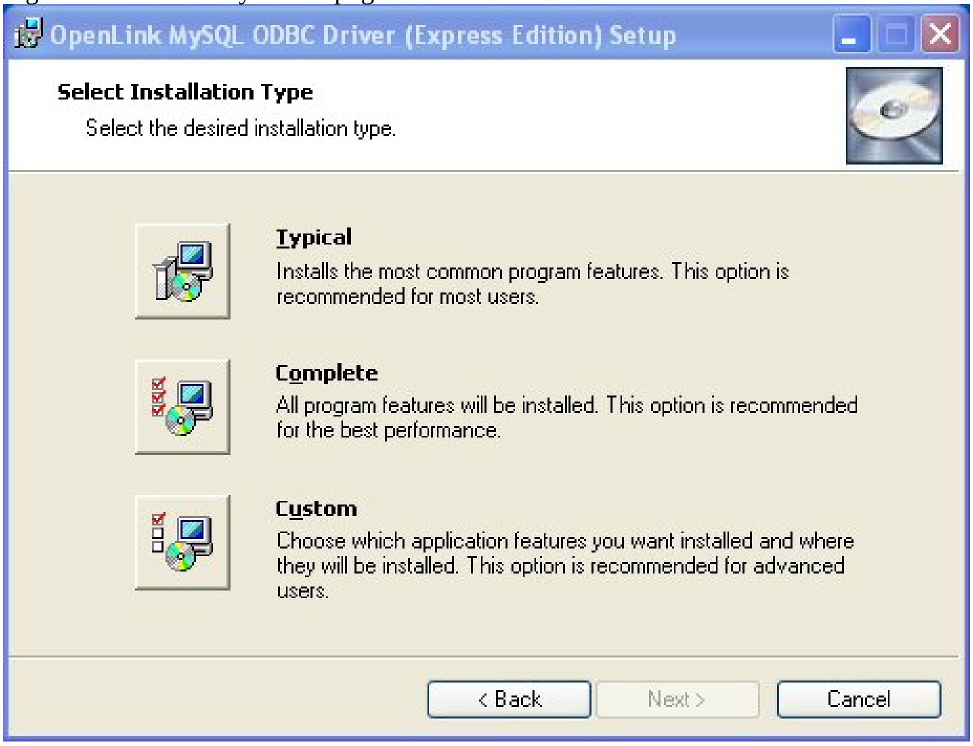
Look in: Local Disk (C:)

DB2
DELL
Documents and Settings
IFMXDATA
IngresII
ISM
NSR
OpenEdge
oracle
Program Files
Progress
tmp
WINDOWS

Folder name: C:\

Choose to perform a custom, typical or complete installation of the driver:

Figure 7.38. EEWinmysinst07.png



OpenLink MySQL ODBC Driver (Express Edition) Setup

Select Installation Type

Select the desired installation type.

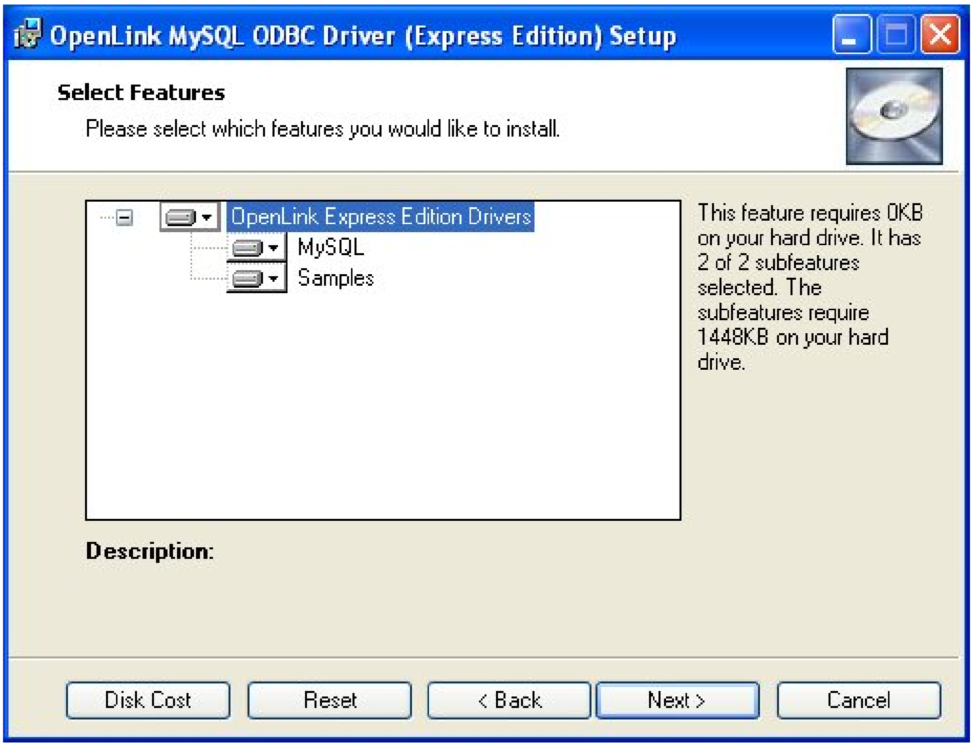
Typical
Installs the most common program features. This option is recommended for most users.

Complete
All program features will be installed. This option is recommended for the best performance.

Custom
Choose which application features you want installed and where they will be installed. This option is recommended for advanced users.

Select the features to be installed:

Figure 7.39. EEWinmysinst08.png



OpenLink MySQL ODBC Driver (Express Edition) Setup

Select Features

Please select which features you would like to install.

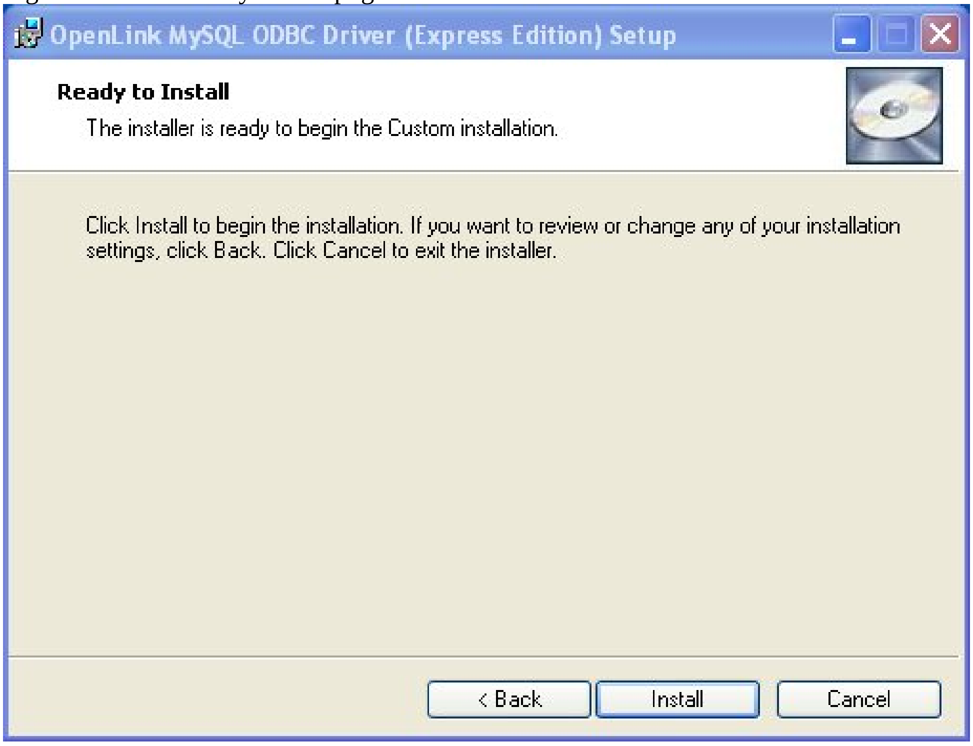
- OpenLink Express Edition Drivers
  - MySQL
  - Samples

This feature requires 0KB on your hard drive. It has 2 of 2 subfeatures selected. The subfeatures require 1448KB on your hard drive.

Description:

Click the install button to begin the installation of components:

Figure 7.40. EEWinmysinst09.png



OpenLink MySQL ODBC Driver (Express Edition) Setup

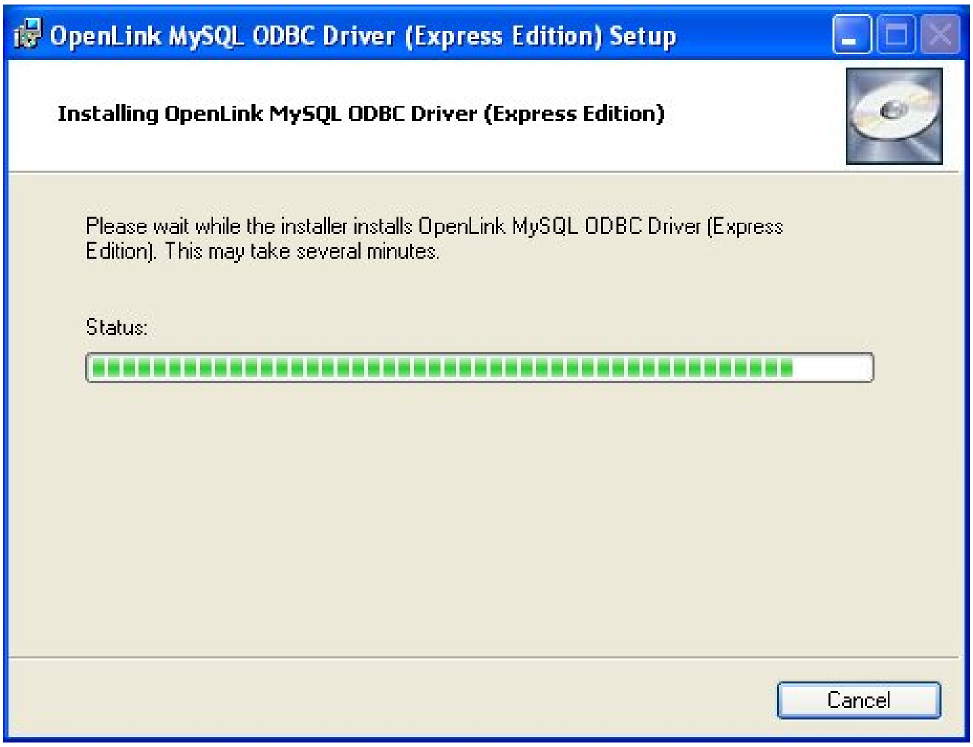
Ready to Install

The installer is ready to begin the Custom installation.

Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the installer.

Installation in progress:

Figure 7.41. EEWinmysinst10.png

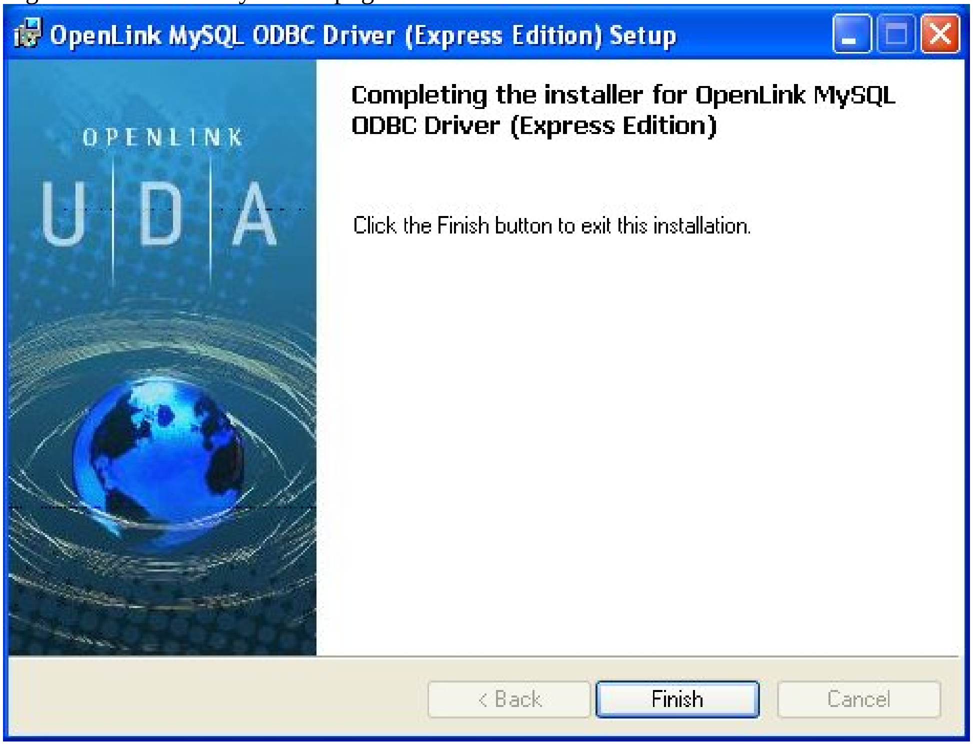


OpenLink MySQL ODBC Driver (Express Edition) Setup
Installing OpenLink MySQL ODBC Driver (Express Edition)

Please wait while the installer installs OpenLink MySQL ODBC Driver (Express Edition). This may take several minutes.

The Software installation is complete and ready for use:

Figure 7.42. EEWinmysinst11.png



OpenLink MySQL ODBC Driver (Express Edition) Setup
OPENLINK
UDA
Completing the installer for OpenLink MySQL ODBC Driver (Express Edition)

Click the Finish button to exit this installation.

8.2.2 Configuration

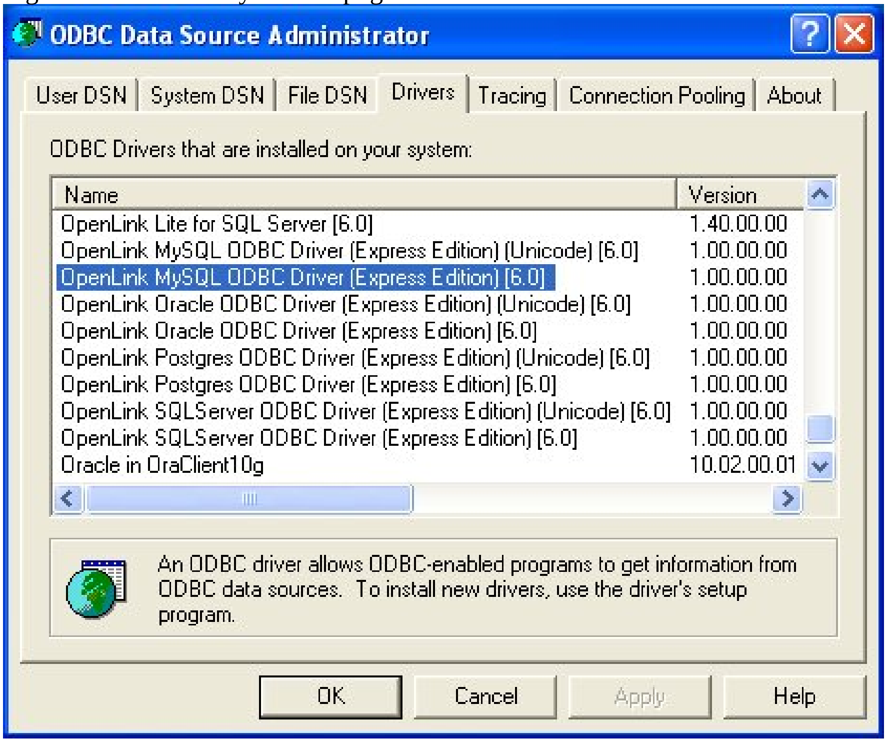
To configure an ODBCDSN, run the ODBCAdministrator located in the Administrative Tools section of the Control Panel:

Figure 7.43. EEWinmysconf01.png

Data Sources (ODBC)
Shortcut
2 KB

Click on the Drivers tab to confirm the OpenLink MySQL ODBCDriver [Express Edition][6.0] has been successfully installed:

Figure 7.44. EEWinmysconf02.png



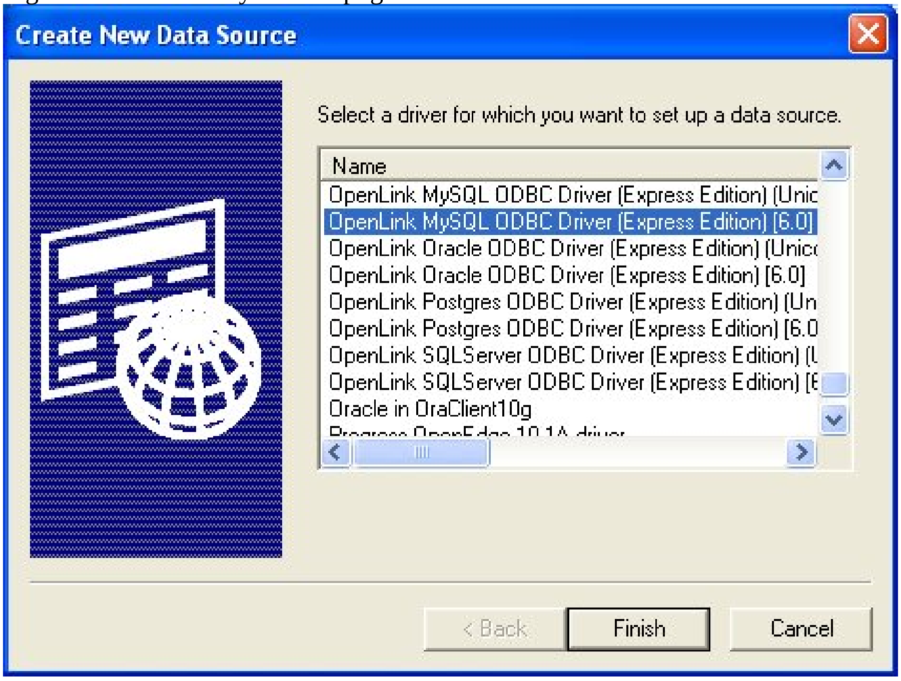
ODBC Drivers that are installed on your system:

Name	Version
OpenLink Lite for SQL Server [6.0]	1.40.00.00
OpenLink MySQL ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink MySQL ODBC Driver (Express Edition) [6.0]	1.00.00.00
OpenLink Oracle ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink Oracle ODBC Driver (Express Edition) [6.0]	1.00.00.00
OpenLink Postgres ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink Postgres ODBC Driver (Express Edition) [6.0]	1.00.00.00
OpenLink SQLServer ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink SQLServer ODBC Driver (Express Edition) [6.0]	1.00.00.00
Oracle in OraClient10g	10.02.00.01

An ODBC driver allows ODBC-enabled programs to get information from ODBC data sources. To install new drivers, use the driver's setup program.

From either the User or System DSN tabs, click on the Add button and select the OpenLink MySQL ODBCDriver [Express Edition][6.0] from the list :

Figure 7.45. EEWinmysconf03.png

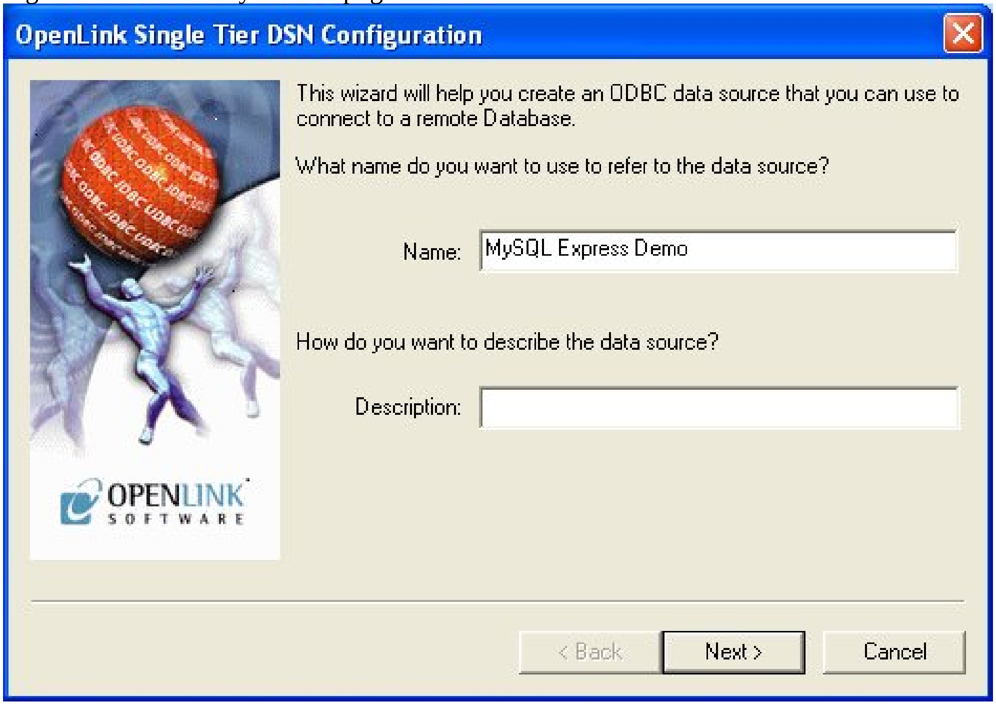


Select a driver for which you want to set up a data source.

Name
OpenLink MySQL ODBC Driver (Express Edition) (Unic
OpenLink MySQL ODBC Driver (Express Edition) [6.0]
OpenLink Oracle ODBC Driver (Express Edition) (Unic
OpenLink Oracle ODBC Driver (Express Edition) [6.0]
OpenLink Postgres ODBC Driver (Express Edition) (Un
OpenLink Postgres ODBC Driver (Express Edition) [6.0
OpenLink SQLServer ODBC Driver (Express Edition) (L
OpenLink SQLServer ODBC Driver (Express Edition) [E
Oracle in OraClient10g
Progress OpenEdge 10.1A driver

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 7.46. EEWinmysconf04.png



OpenLink Single Tier DSN Configuration

This wizard will help you create an ODBC data source that you can use to connect to a remote Database.

What name do you want to use to refer to the data source?

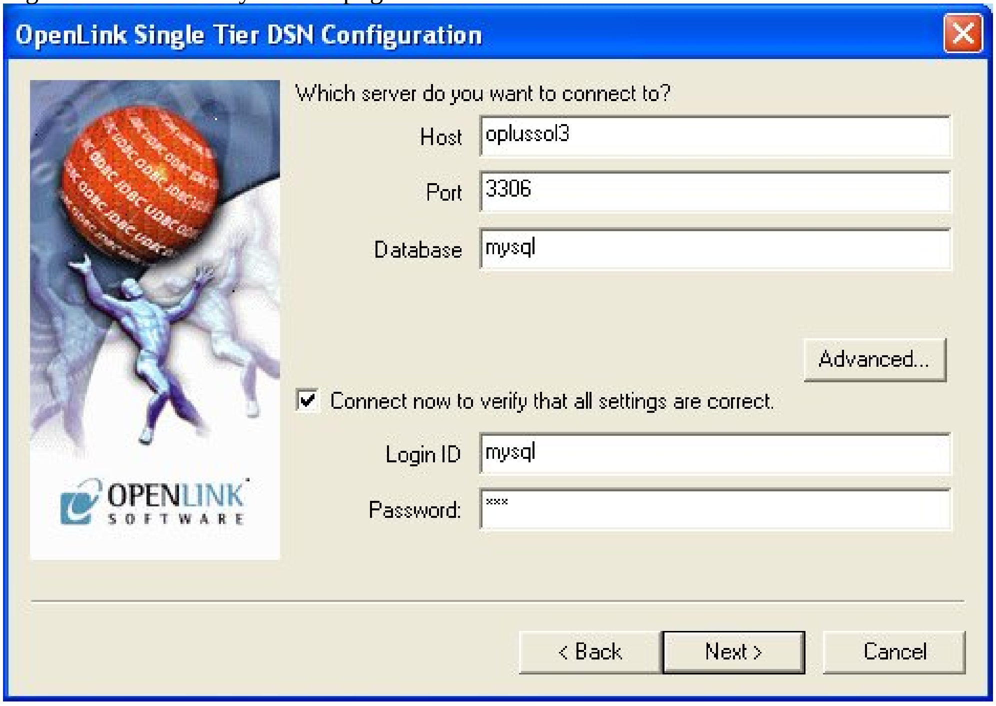
Name: MySQL Express Demo

How do you want to describe the data source?

Description:

The Connection tab requests the minimum parameters required to make a connection to the target database:

Figure 7.47. EEWinmysconf05.png



OpenLink Single Tier DSN Configuration

Which server do you want to connect to?

Host: oplussol3

Port: 3306

Database: mysql

☑ Connect now to verify that all settings are correct.

Login ID: mysql

Password: ***

- *Host* : This is the fully qualified hostname or IP address of the machine hosting the DBMS you wish to access, e.g., dbms-server.example.com, or 192.168.155.123. Any hostname which will be resolved by your local DNS is acceptable.
- *Port* : This is the port on which MySQL is listening
- *Database* : This is the name of the MySQL database to which you want to connect

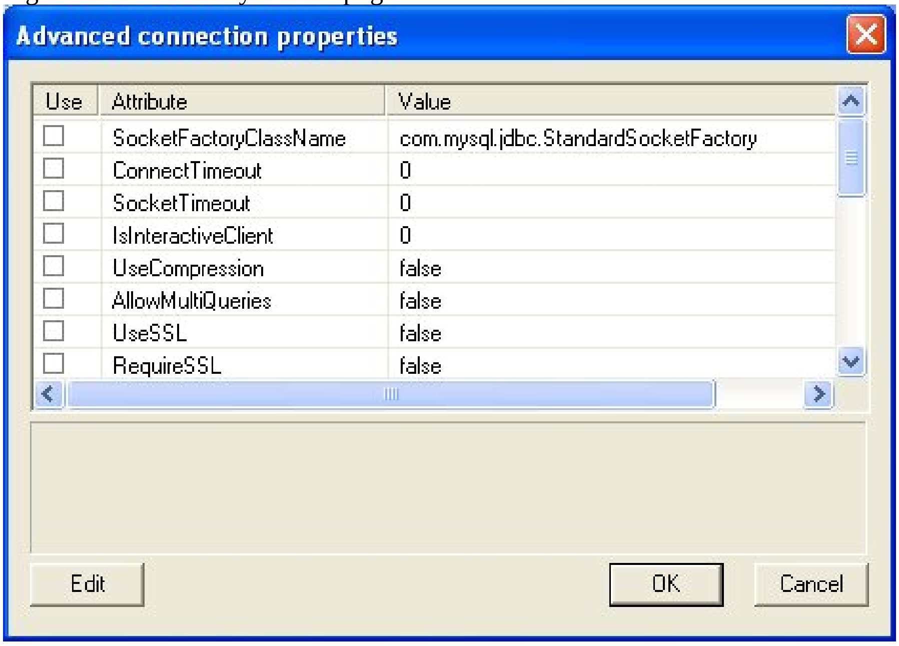
- *Login ID* : This is a valid user name for the MySQL database

- *Password* : This is a valid password for the MySQL database

Click next to verify that all settings are correct or uncheck the check box to delay testing to a later stage.

The advanced button displays additional, optional parameters that can be configured:

Figure 7.48. EEWinmysconf06.png



Advanced connection properties

Use	Attribute	Value
□	SocketFactoryClassName	com.mysql.jdbc.StandardSocketFactory
□	ConnectTimeout	0
□	SocketTimeout	0
□	IsInteractiveClient	0
□	UseCompression	false
□	AllowMultiQueries	false
□	UseSSL	false
□	RequireSSL	false

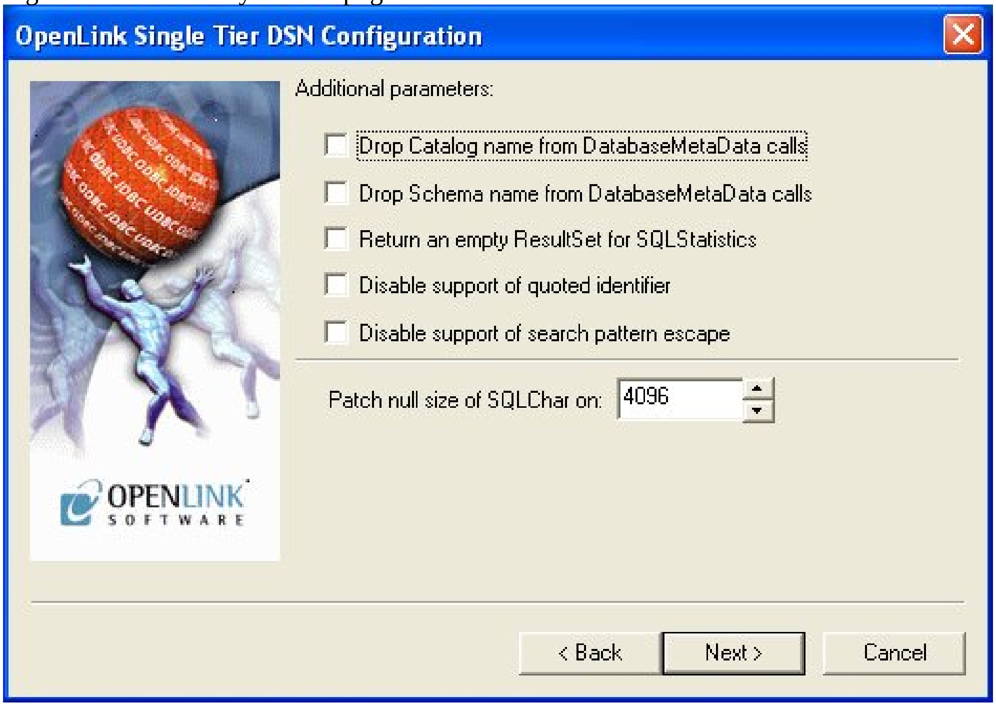
Table 7.2.

SocketFactoryClassName	The name of the class that the driver should use for creating socket connections to the server. This class must implement the interface 'com.mysl.jdbc.SocketFactory' and have no-args constructor.
ConnectTimeout	Timeout for socket connect (in milliseconds), with 0 being no timeout.
SocketTimeout	Timeout on network socket operations (0, the default means no timeout).
IsInteractiveClient	Set the CLIENT_INTERACTIVE flag, which tells MySQL to timeout connections based on INTERACTIVE_TIMEOUT instead of WAIT_TIMEOUT.
UseCompression	Use zlib compression when communicating with the server (true/false).
AllowMultiQueries	Allow the use of ';' to delimit multiple queries during one statement (true/false).
UseSSL	Use SSL when communicating with the server (true/false), defaults to 'false.'
RequireSSL	Require SSL connection if useSSL=true.
AllowURLInLocalInfile	Should the driver allow URLs in 'LOAD DATA LOCAL INFILE' statements?
Paranoid	Take measures to prevent exposure sensitive information in error messages and clear data structures holding sensitive data when possible?
MetadataCacheSize	The number of queries to cacheResultSetMetadata for if cacheResultSetMetaData is set to 'true.'
BlobSendChunkSize	Chunk to use when sending BLOB/CLOBs via ServerPreparedStatements.
CacheServerConfiguration	Should the driver cache the results of 'SHOW VARIABLES' and 'SHOW COLLATION' on a pre-URL basis?
ElideSetAutoCommits	If using MySQL 4.1 or newer, should the driver only issue 'set autocommit=n' queries when the server's state doesn't match the requested state by Connection.setAutoCommit (boolean)?
UseReadAheadInput	Use newer, optimized non-blocking, buffered input stream when reading from the server?
UseUnicode	Should the driver use Unicode character encodings when handling strings? Should only be used when the driver can't determine the character set mapping or you are trying to 'force'

	the driver to use a character set that MySQL either doesn't natively support (such as UTF-8), true/false.
CharacterEncoding	If 'useUnicode' is set to true, what character encoding should the driver use when dealing with strings? (defaults to 'autodetect')
CharacterSetResults	Character set to tell the server to return result as.
ConnectionCollation	If set, tells the server to use this collation via 'set collation_connection.'
SessionVariables	A comma-separated list of name/value pairs to be sent as SET SESSION to the server when the driver connects.

As indicated above, the parameters on the options and preferences tabs are not required for a basic connection.

Figure 7.49. EEWinmysconf17.png



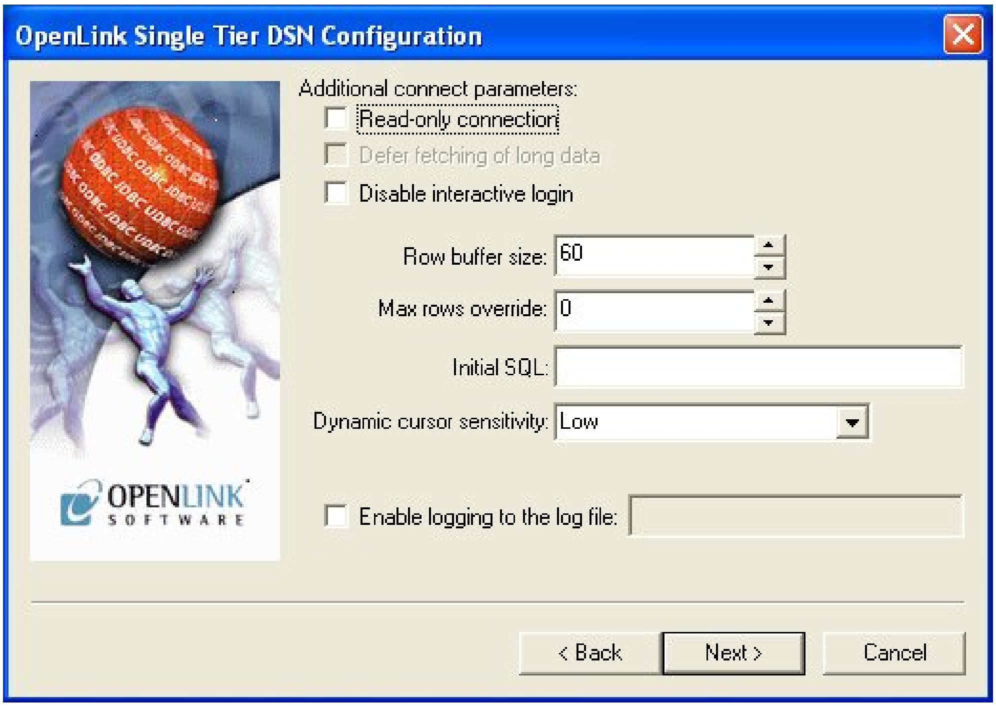
Additional parameters:

- □ Drop Catalog name from DatabaseMetaData calls
- □ Drop Schema name from DatabaseMetaData calls
- □ Return an empty ResultSet for SQLStatistics
- □ Disable support of quoted identifier
- □ Disable support of search pattern escape

Patch null size of SQLChar on: 4096

- *Drop Catalog name from DatabaseMetaData calls* - Enable this option to have the catalog name not appear for tables, views, and procedures when requesting database meta-data.
- *Drop Schema name from DatabaseMetaData calls* - Enable this option to have the schema-name not appear for tables, views, and procedures when requesting database meta-data.
- *Return an empty ResultSet for SQLStatistics* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table, e.g., what indexes there are on it.
- *Disable support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if the DBMS does not support quoted SQL, e.g., select * from "account."
- *Disable support of search pattern escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if the DBMS does not support SQL escape patterns.
- *Patch of NULL size of SQL_CHAR* - If set, this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0, the driver uses the size returned by the database.

Figure 7.50. EEWinmysconf08.png



OpenLink Single Tier DSN Configuration

Additional connect parameters:

☐ Read-only connection

☐ Defer fetching of long data

☐ Disable interactive login

Row buffer size: 60

Max rows override: 0

Initial SQL:

Dynamic cursor sensitivity: Low

☐ Enable logging to the log file:

- *Disable Interactive Login* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.

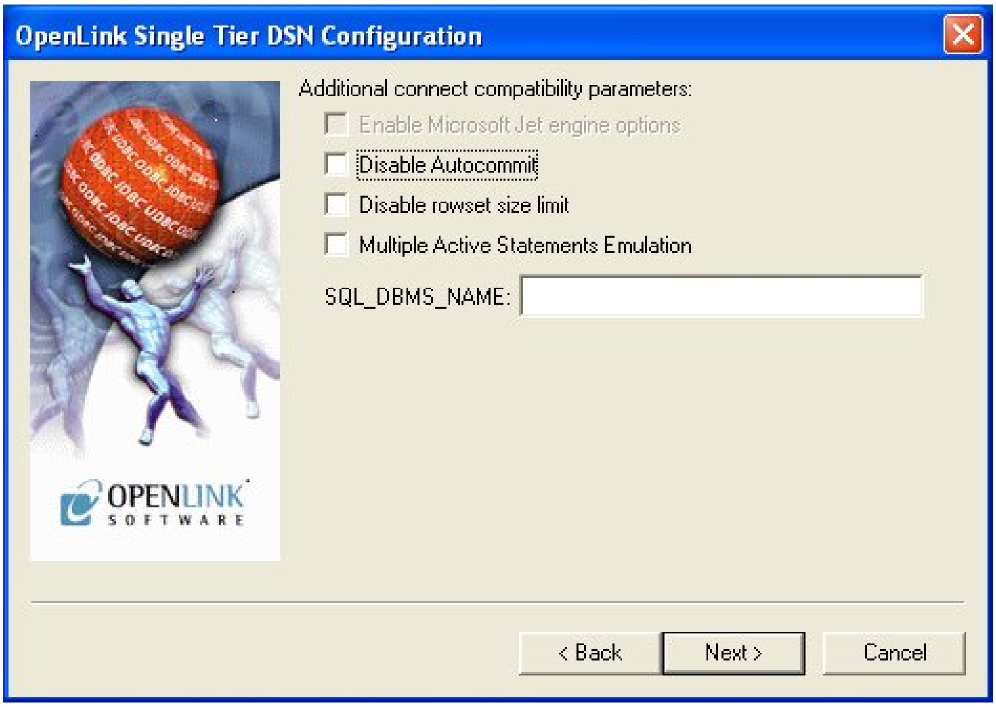
- *Max rows override* - Allows you to define a limit on the maximum number of rows to be returned from a query. The default value of 0 means no limit.

- *Initial SQL* - Lets you specify a file containing SQL statements that will be automatically run against the database upon connection.

- *Dynamic Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched, and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED, when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows do not appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate OpenLink script for the target database.

- *Enable logging to the log file:* - Specifies the full path to a text file. If the associated checkbox is checked, and a file is passed, the driver will log auto-generate a clientside ODBC trace.

Figure 7.51. EEWinmysconf09.png



Additional connect compatibility parameters:

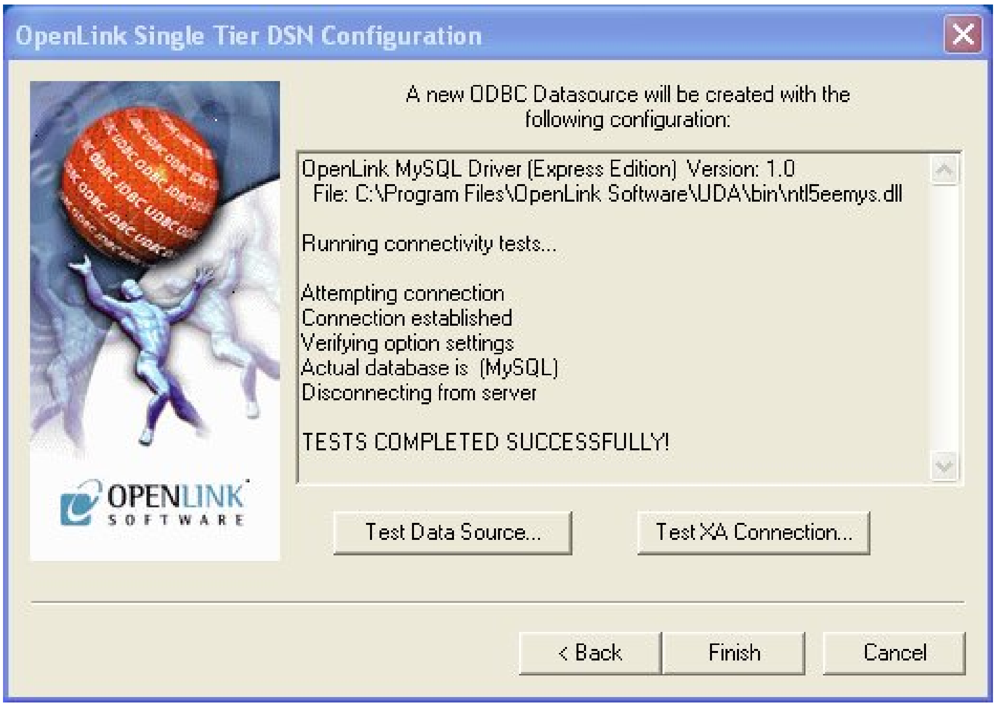
- □ Enable Microsoft Jet engine options
- □ Disable Autocommit
- □ Disable rowset size limit
- □ Multiple Active Statements Emulation

SQL_DBMS_NAME:

- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Driver. The default mode is AutoCommit (box unchecked).
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset generated from an erroneous query is very large. The limit is normally never reached.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.
- *SQL_DBMS Name* - Manually override the SQLGetInfo(SQL_DBMS_NAME) response returned by the driver. This is required for products like Microsoft InfoPath for which the return value must be "SQL Server".

Click on the *Test Data Source*button to verify that a successful connection can be made to the database.

Figure 7.52. EEWinmysconf10.png



A new ODBC Datasource will be created with the following configuration:

```
OpenLink MySQL Driver (Express Edition)  Version: 1.0
  File: C:\Program Files\OpenLink Software\UDA\bin\ntl5eemys.dll

Running connectivity tests...

Attempting connection
Connection established
Verifying option settings
Actual database is  (MySQL)
Disconnecting from server

TESTS COMPLETED SUCCESSFULLY!
```

9 Chapter 8. OpenLink ODBC Driver for Oracle (Express Editon)

Table of Contents

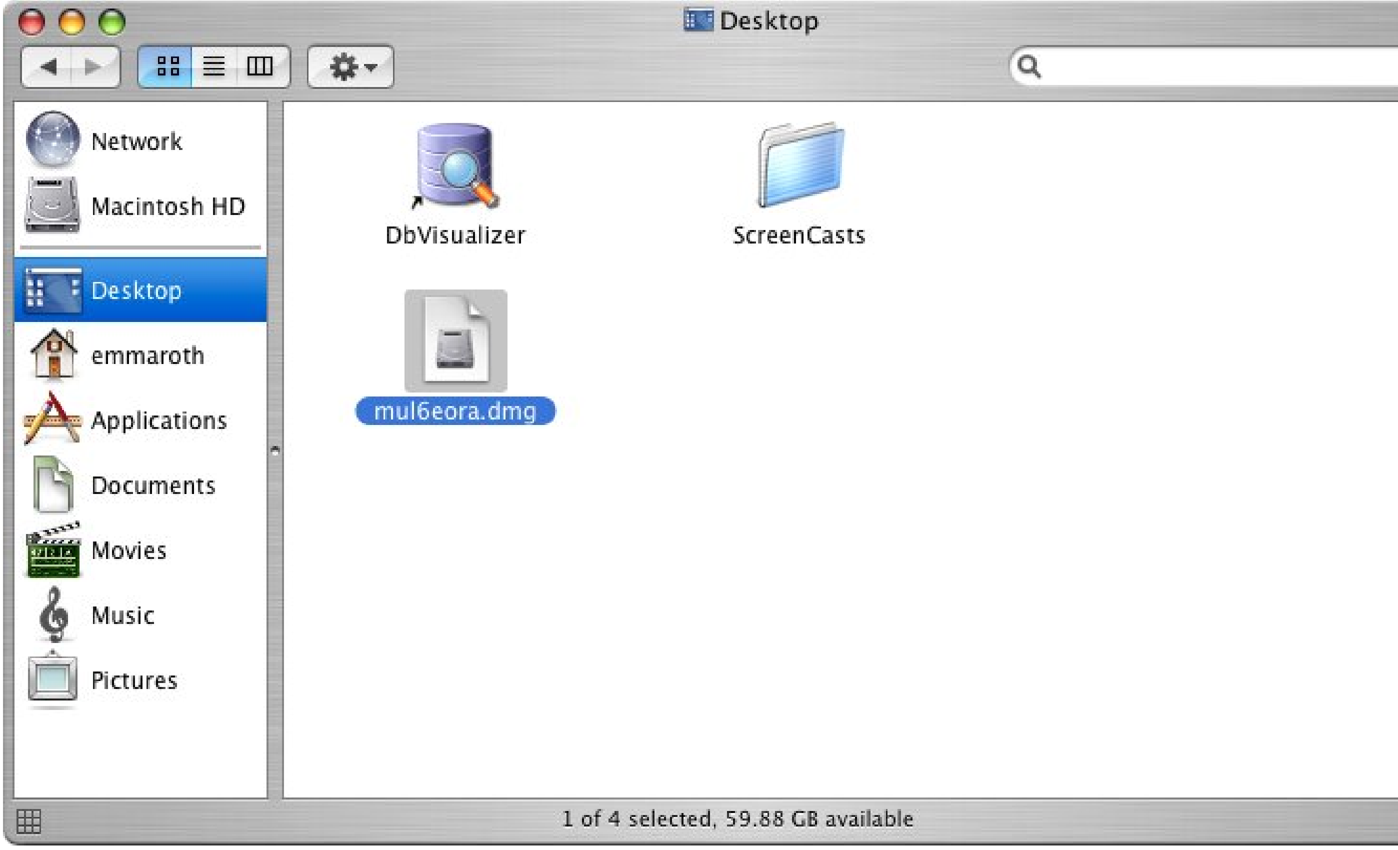
- OpenLink ODBC Driver for Oracle (Express Editon) for Mac OS X
    - Installation Guide
    - Configuration
- OpenLink ODBC Driver for Oracle (Express Editon) for Windows
    - Installation
    - Configuration

9.1 OpenLink ODBC Driver for Oracle (Express Editon) for Mac OS X

9.1.1 Installation Guide

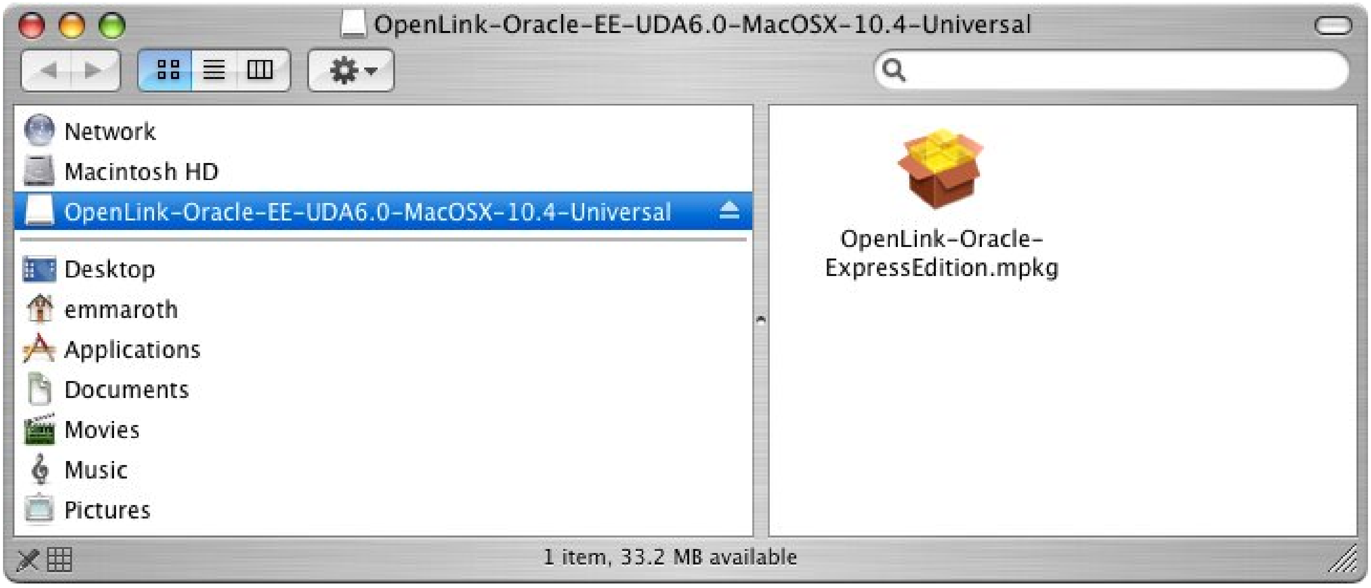
The OpenLink ODBC Driver for Oracle (Express Edition is a distributed as a Disk Image (DMG) file. Simply double click on the disk image 'mul6eora.dmg' to extract the installer mpkg file:

Figure 8.1. OracleDMG.png



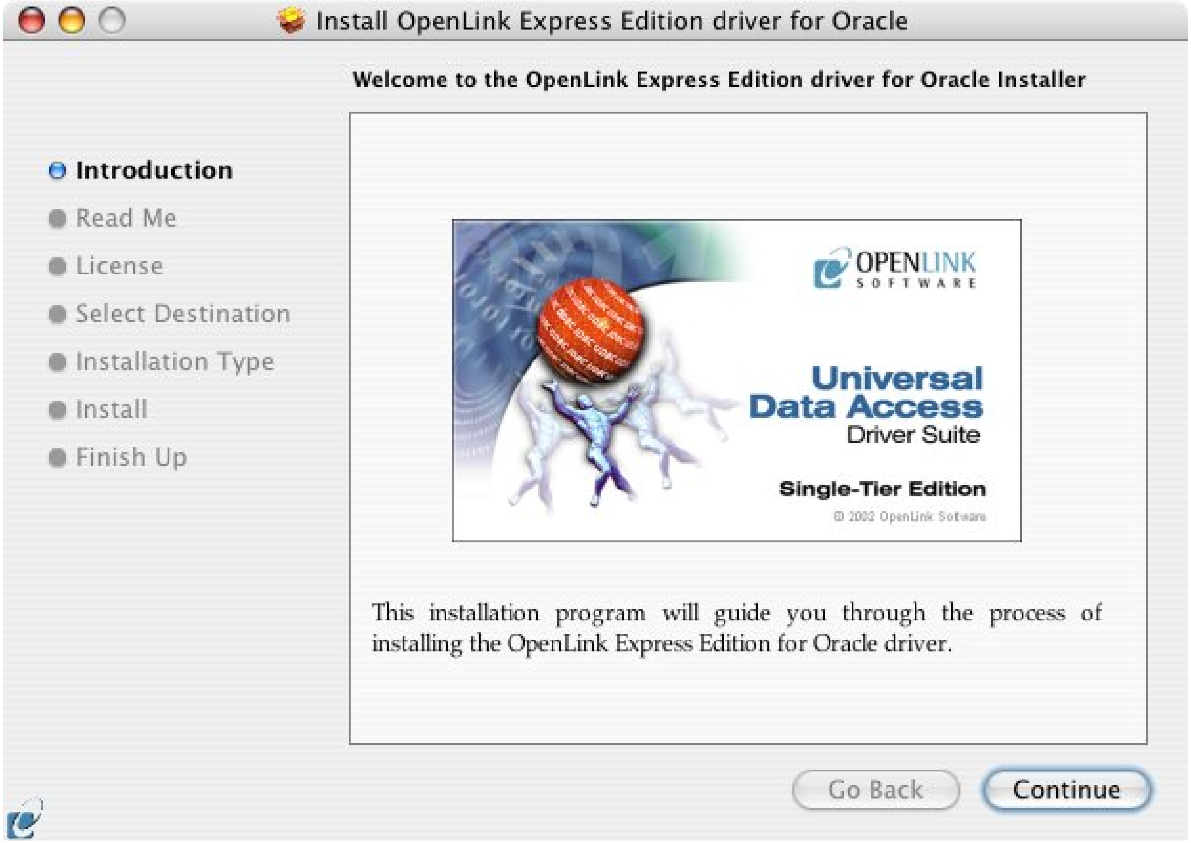
Double-click on the mpkg file to run the installer and following the on screen instriuction as indicated below to complete the installation:

Figure 8.2. OraclePackage.png


OpenLink-Oracle-EE-UDA6.0-MacOSX-10.4-Universal
Network
Macintosh HD
OpenLink-Oracle-EE-UDA6.0-MacOSX-10.4-Universal
Desktop
emmaroth
Applications
Documents
Movies
Music
Pictures
OpenLink-Oracle-ExpressEdition.mpkg
1 item, 33.2 MB available

Installer Welcome Dialog for the OpenLink ODBC Driver for Oracle (Express Edition):

Figure 8.3. OracleInstall2.png

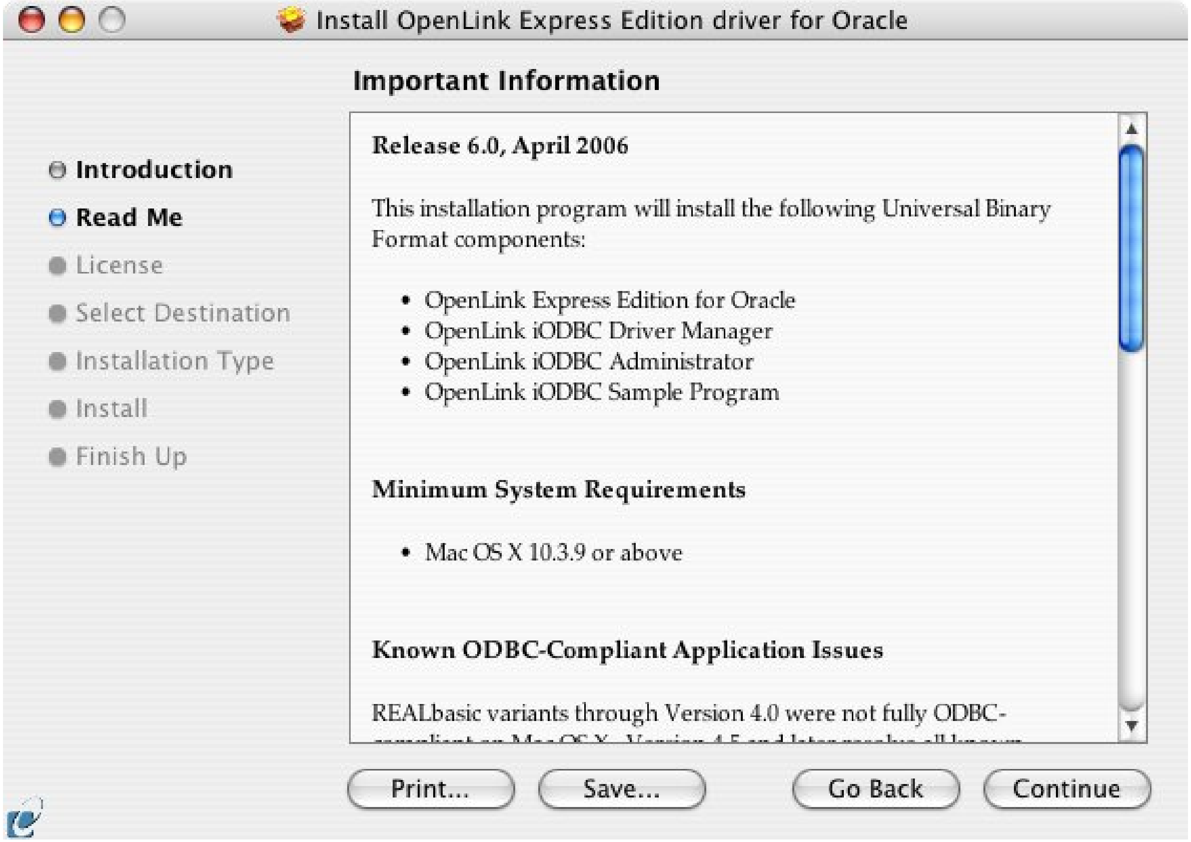


Welcome to the OpenLink Express Edition driver for Oracle Installer

This installation program will guide you through the process of installing the OpenLink Express Edition for Oracle driver.

Please review the readme file for installation requirements and known issues:

Figure 8.4. OracleInstall3.png



Important Information

Release 6.0, April 2006

This installation program will install the following Universal Binary Format components:

- OpenLink Express Edition for Oracle
- OpenLink iODBC Driver Manager
- OpenLink iODBC Administrator
- OpenLink iODBC Sample Program

Minimum System Requirements

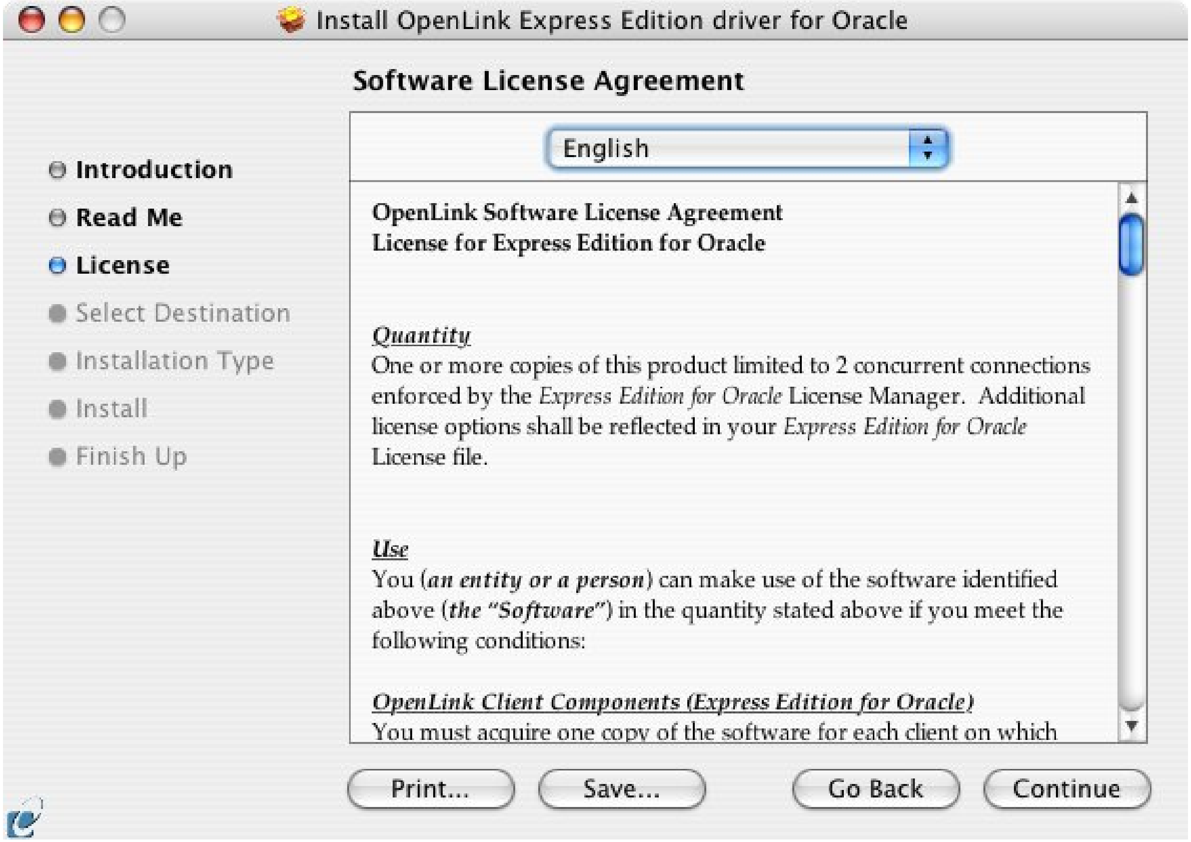
- Mac OS X 10.3.9 or above

Known ODBC-Compliant Application Issues

REALbasic variants through Version 4.0 were not fully ODBC-

Please read the software license agreement before continuing your installation:

Figure 8.5. OracleInstall4.png



Software License Agreement

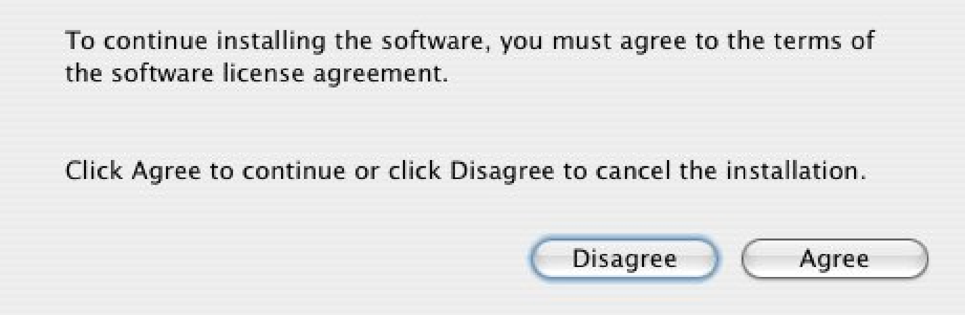
OpenLink Software License Agreement
License for Express Edition for Oracle

Quantity
One or more copies of this product limited to 2 concurrent connections enforced by the *Express Edition for Oracle* License Manager. Additional license options shall be reflected in your *Express Edition for Oracle* License file.

Use
You (***an entity or a person***) can make use of the software identified above (***the "Software"***) in the quantity stated above if you meet the following conditions:

OpenLink Client Components (Express Edition for Oracle)
You must acquire one copy of the software for each client on which

Figure 8.6. OracleInstall5.png

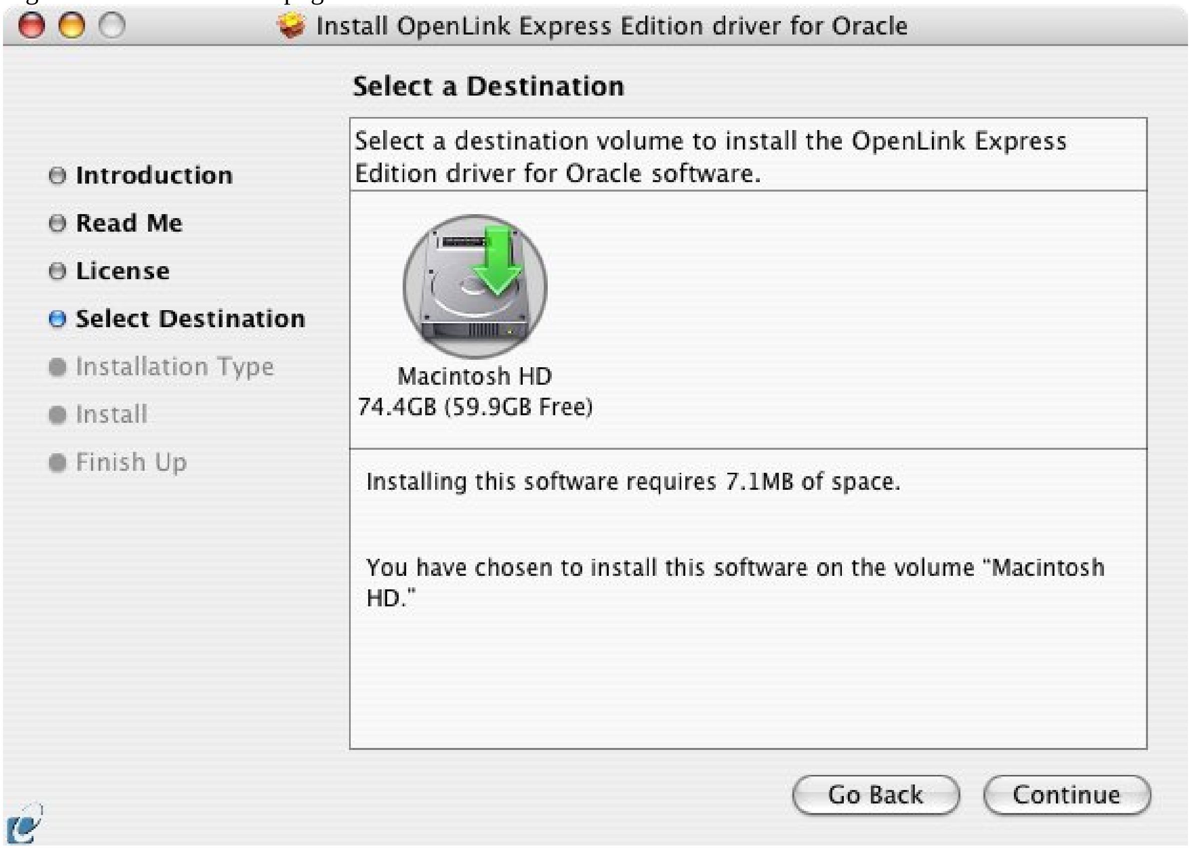


To continue installing the software, you must agree to the terms of the software license agreement.

Click Agree to continue or click Disagree to cancel the installation.

Select destination volume for driver installation:

Figure 8.7. OracleInstall6.png



Install OpenLink Express Edition driver for Oracle

Select a Destination

Select a destination volume to install the OpenLink Express Edition driver for Oracle software.

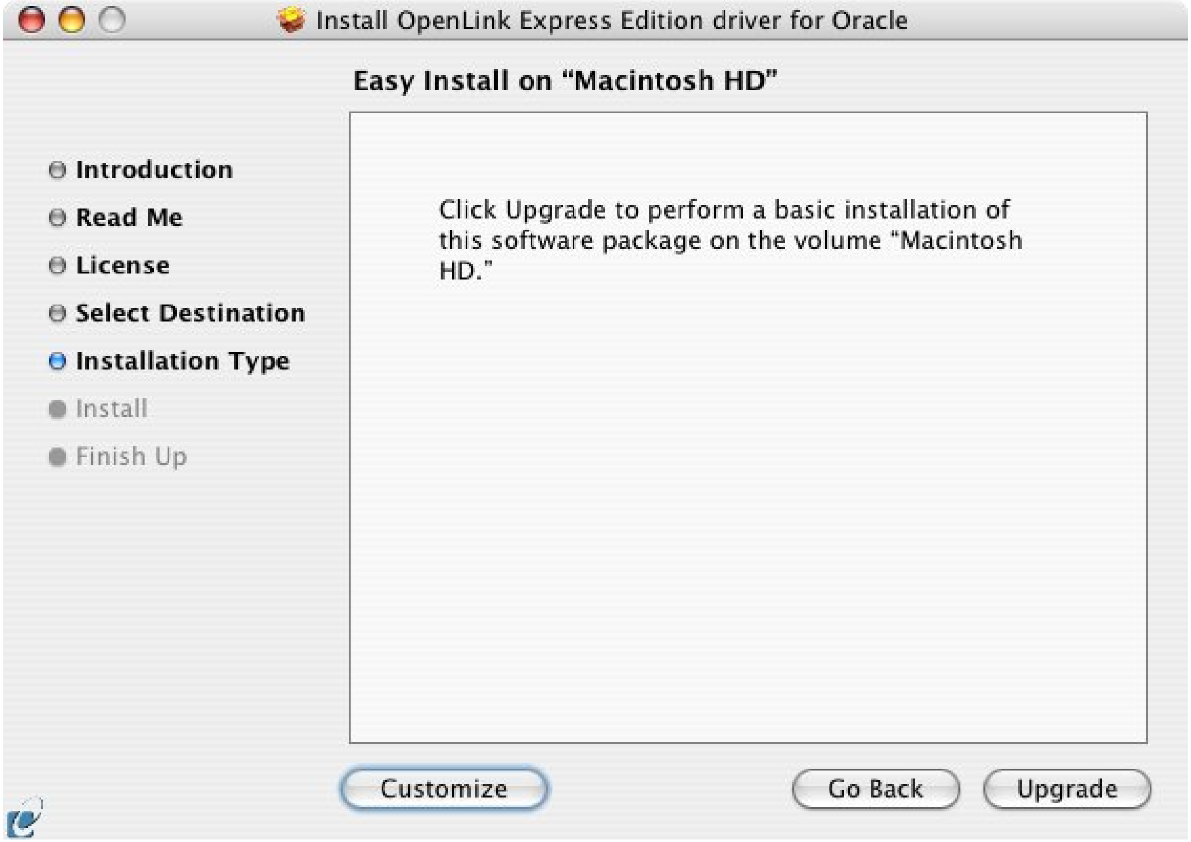
Macintosh HD
74.4GB (59.9GB Free)

Installing this software requires 7.1MB of space.

You have chosen to install this software on the volume "Macintosh HD."

Choose to perform a custom or default installation of the driver:

Figure 8.8. OracleInstall7.png



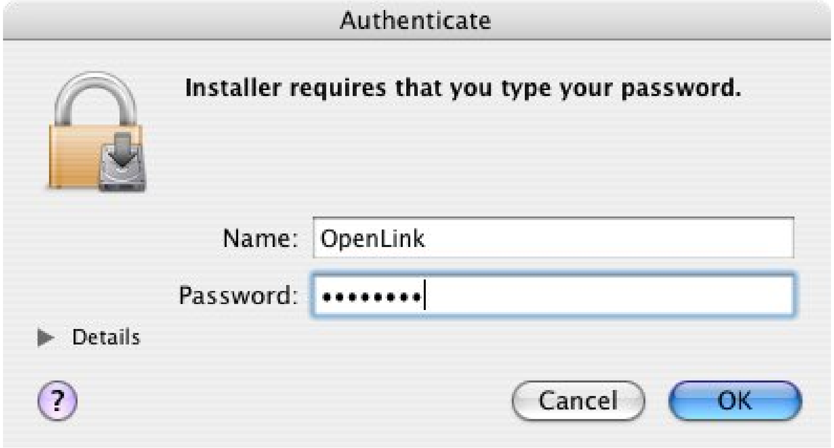
Install OpenLink Express Edition driver for Oracle

Easy Install on "Macintosh HD"

Click Upgrade to perform a basic installation of this software package on the volume "Macintosh HD."

If you chose the custom option select which of the components below are to be installed: The Software must be installed as a user with Administrative privileges on the machine:

Figure 8.9. OracleInstall8.png



Authenticate

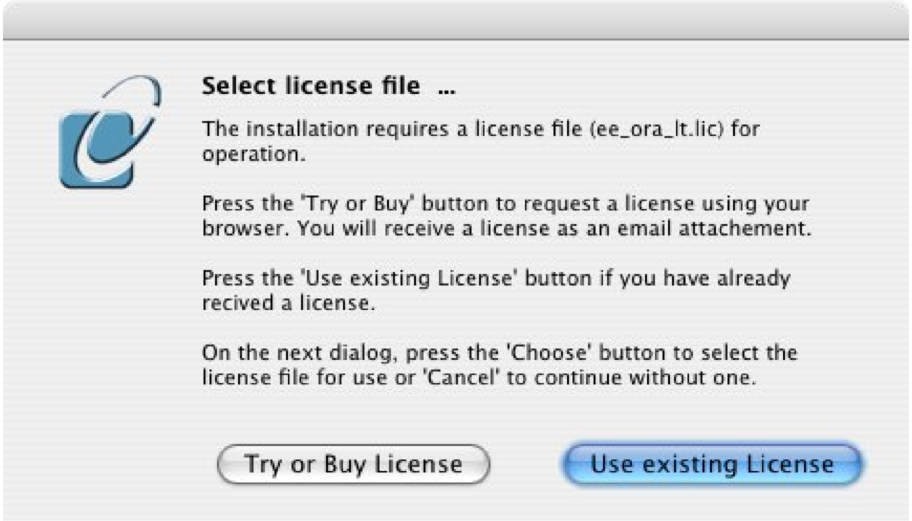
Installer requires that you type your password.

Name: OpenLink

Password: ••••••••

After the driver has been installed you will be prompted for a license file. If a license file already exists on the machine then select the 'use exisiting file' option. A trial (try) or full (buy) license can be obtain by selecting the 'try and buy' option which loads our online try and buy web page:

Figure 8.10. OracleInstall10.png



Select license file ...

The installation requires a license file (ee_ora_lt.lic) for operation.

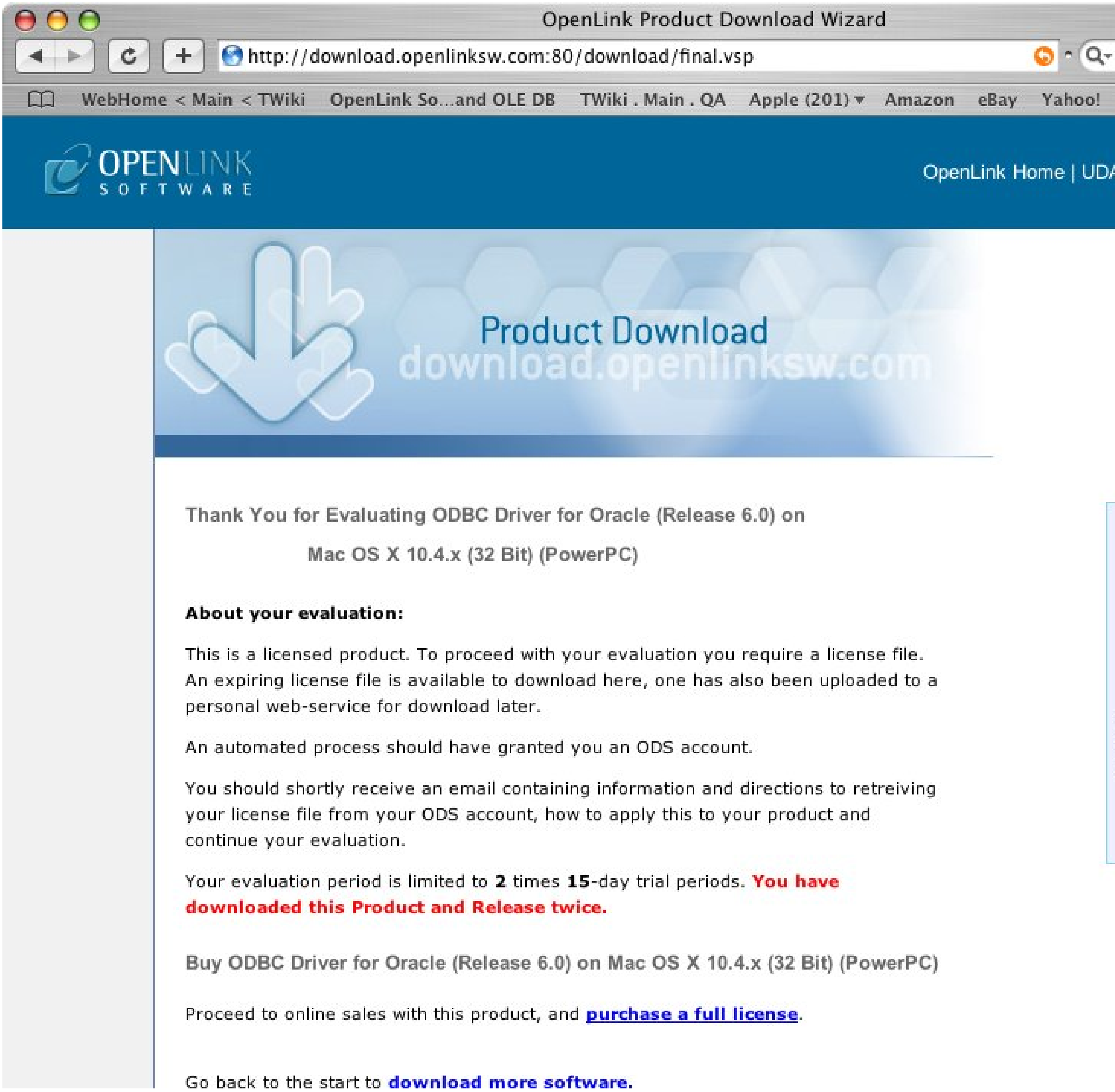
Press the 'Try or Buy' button to request a license using your browser. You will receive a license as an email attachement.

Press the 'Use existing License' button if you have already recived a license.

On the next dialog, press the 'Choose' button to select the license file for use or 'Cancel' to continue without one.

To obtain the trial license you must be a registered user on the OpenLink Web site and login with the username (e-mail address) and password for that user. Click on the 'Shop' link to visit our online shop cart to purchases a full license if required: Click on the 'download license' button to obtain the license file immediately and save to your desktop. Alternatively an auto e-mail will be sent to the registered users e-mail address with a link to their OpenLink Data Space (ODS) where all trial and full license files will be stored in the Briefcase for download at a later date.

Figure 8.11. OracleInstall12.png



Thank You for Evaluating ODBC Driver for Oracle (Release 6.0) on

Mac OS X 10.4.x (32 Bit) (PowerPC)

About your evaluation:

This is a licensed product. To proceed with your evaluation you require a license file. An expiring license file is available to download here, one has also been uploaded to a personal web-service for download later.

An automated process should have granted you an ODS account.

You should shortly receive an email containing information and directions to retreiving your license file from your ODS account, how to apply this to your product and continue your evaluation.

Your evaluation period is limited to **2** times **15**-day trial periods. **You have downloaded this Product and Release twice.**

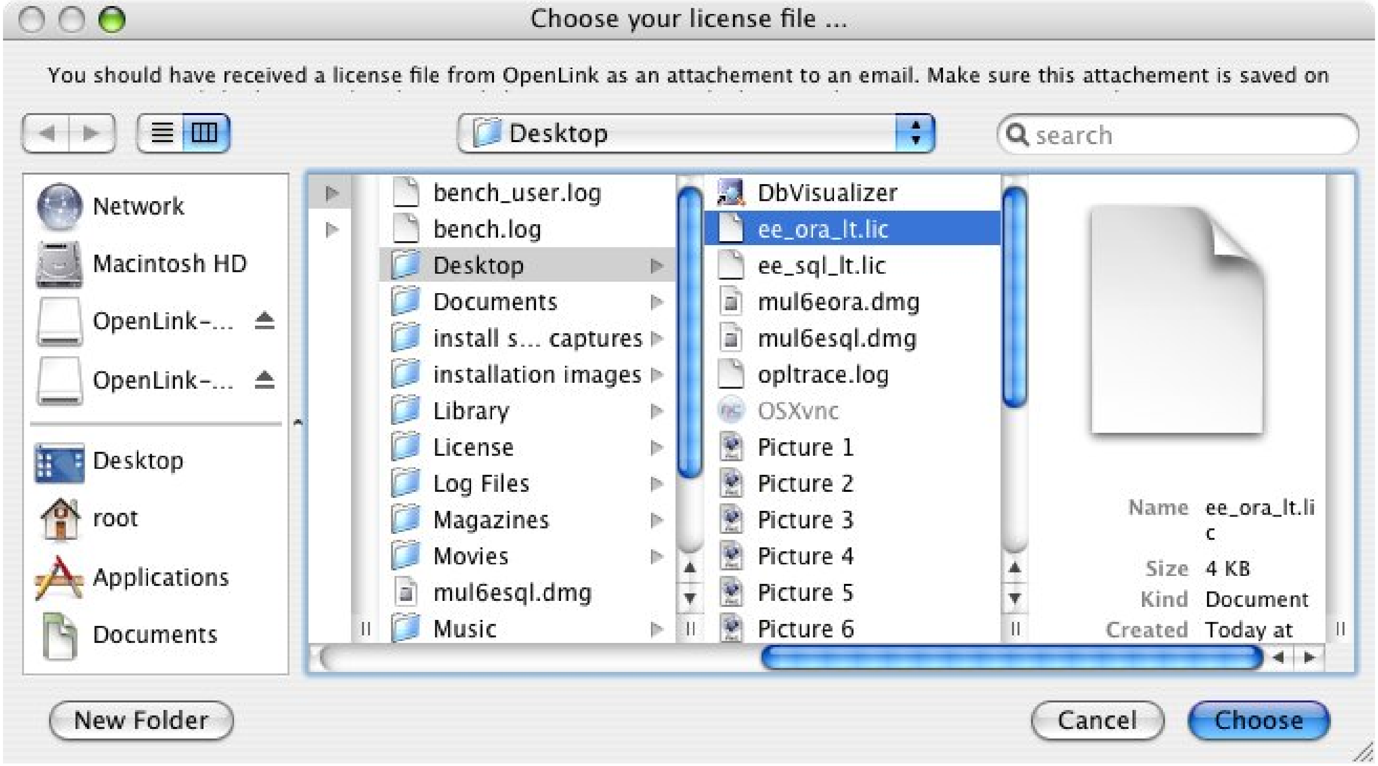
Buy ODBC Driver for Oracle (Release 6.0) on Mac OS X 10.4.x (32 Bit) (PowerPC)

Proceed to online sales with this product, and **purchase a full license**.

Go back to the start to **download more software.**

Select the license file to be used for the installation:

Figure 8.12. OracleInstall14.png



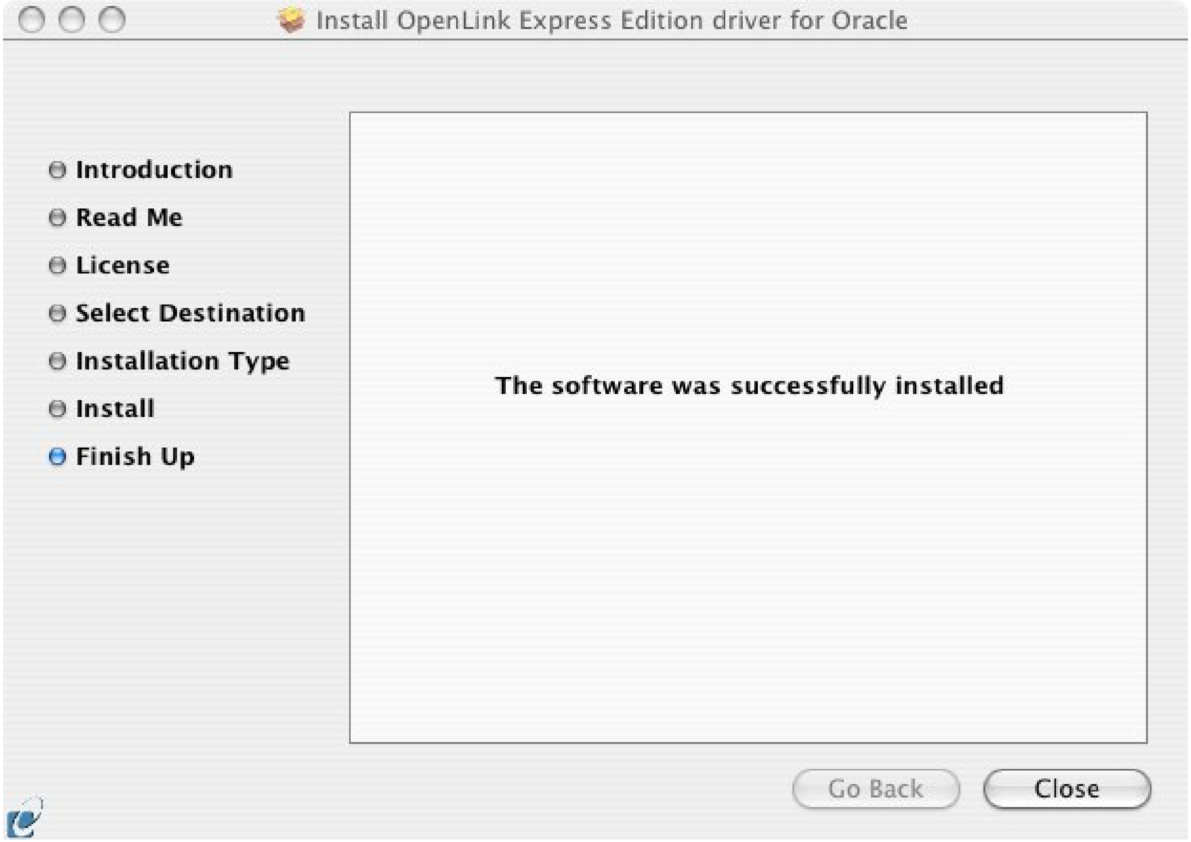
Choose your license file ...

You should have received a license file from OpenLink as an attachement to an email. Make sure this attachement is saved on

Name ee_ora_lt.lic
Size 4 KB
Kind Document
Created Today at

Installation is complete:

Figure 8.13. OracleInstall15.png



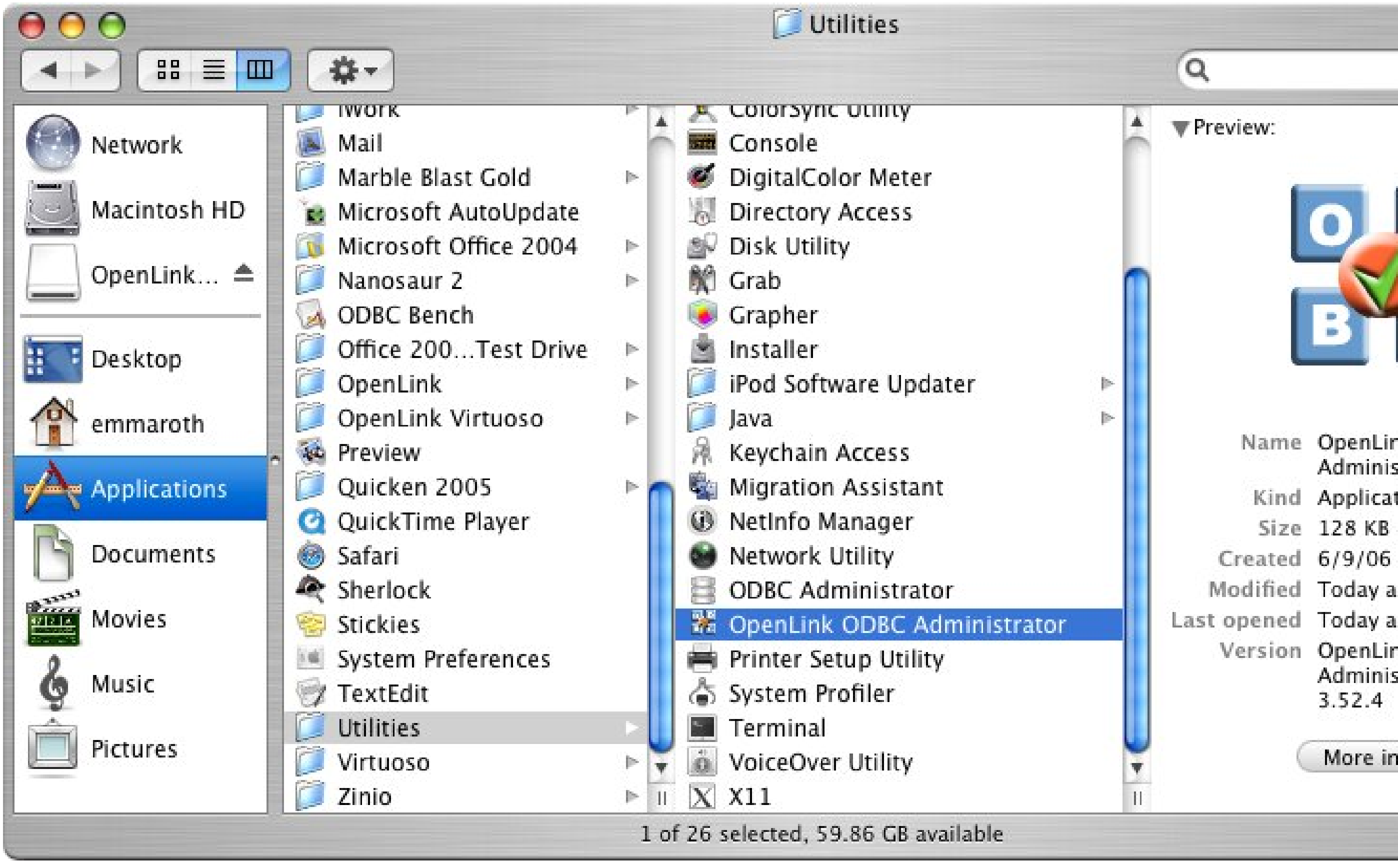
Install OpenLink Express Edition driver for Oracle

The software was successfully installed

9.1.2 Configuration

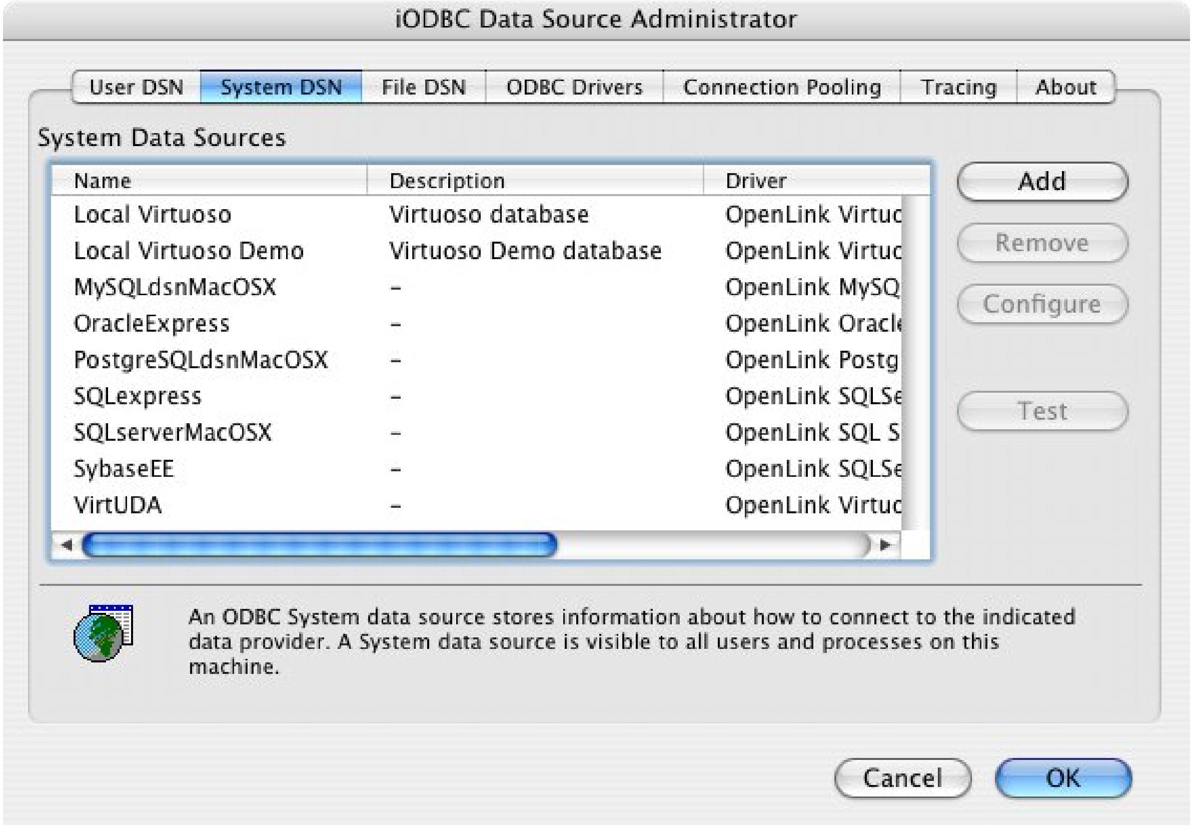
To configure an ODBC DSN, run the OpenLink iODBC Administrator located in the /Applications/iODBC folder:

Figure 8.14. ODBCadmin.png



Click on the add button to Choose the ODBC Driver the DSN should be created for:

Figure 8.15. OracleConfig1.png



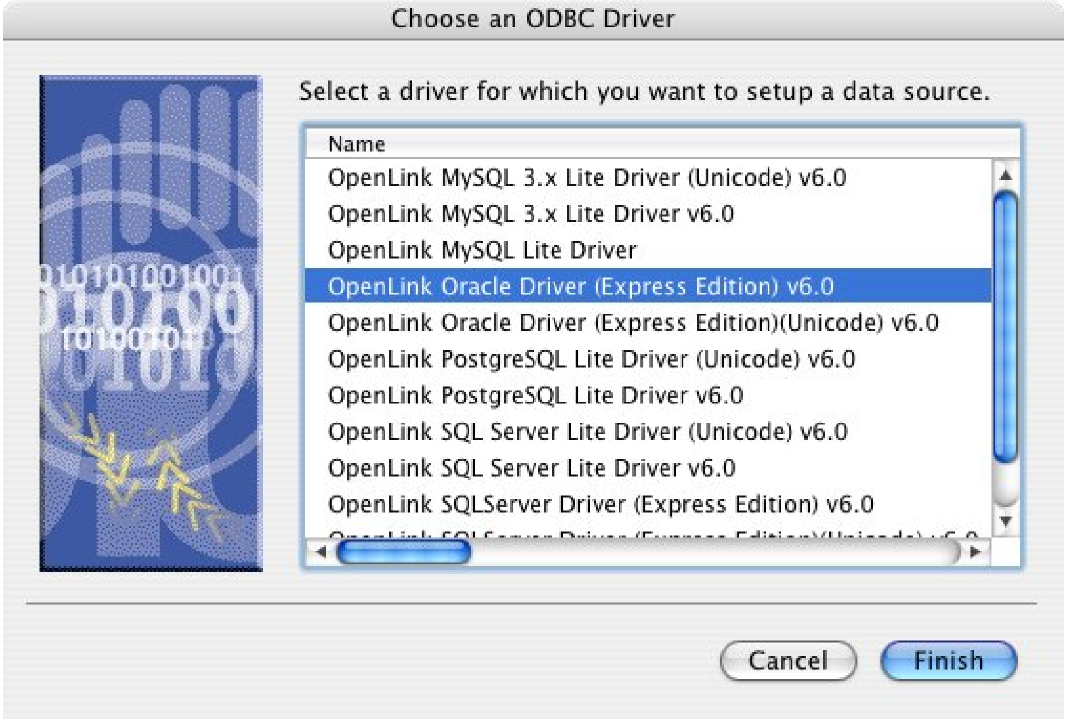
System Data Sources

Name	Description	Driver
Local Virtuoso	Virtuoso database	OpenLink Virtuo
Local Virtuoso Demo	Virtuoso Demo database	OpenLink Virtuo
MySQLdsnMacOSX	-	OpenLink MySQ
OracleExpress	-	OpenLink Oracle
PostgreSQLdsnMacOSX	-	OpenLink Postg
SQLexpress	-	OpenLink SQLSe
SQLserverMacOSX	-	OpenLink SQL S
SybaseEE	-	OpenLink SQLSe
VirtUDA	-	OpenLink Virtuo

An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users and processes on this machine.

Choose the OpenLink Oracle Driver (Express Edition) v6.0 from the list of available drivers:

Figure 8.16. OracleConfig2.png



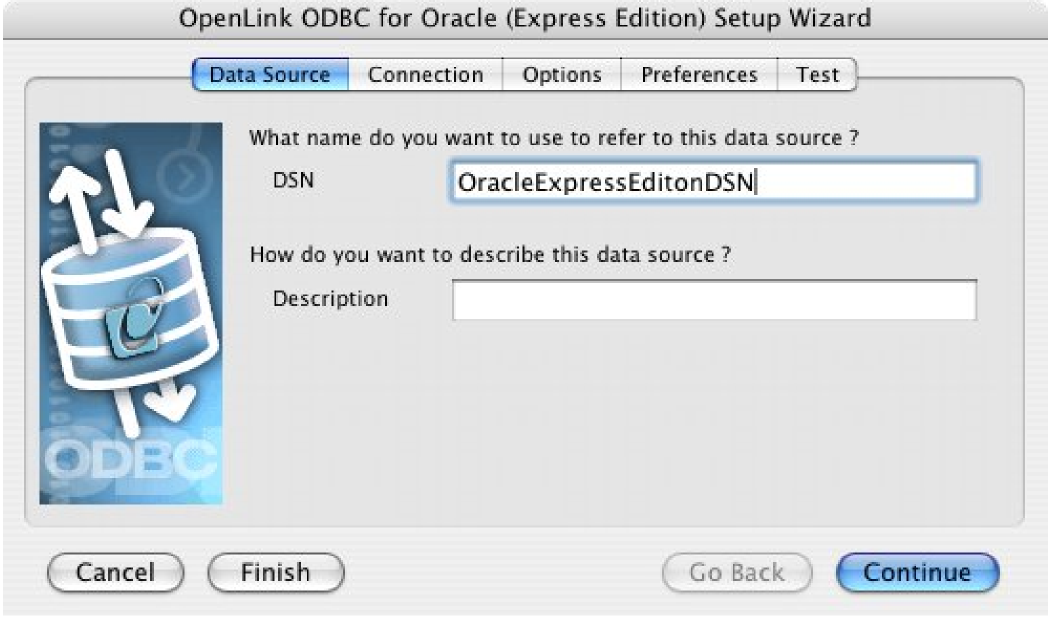
Choose an ODBC Driver

Select a driver for which you want to setup a data source.

Name
OpenLink MySQL 3.x Lite Driver (Unicode) v6.0
OpenLink MySQL 3.x Lite Driver v6.0
OpenLink MySQL Lite Driver
OpenLink Oracle Driver (Express Edition) v6.0
OpenLink Oracle Driver (Express Edition)(Unicode) v6.0
OpenLink PostgreSQL Lite Driver (Unicode) v6.0
OpenLink PostgreSQL Lite Driver v6.0
OpenLink SQL Server Lite Driver (Unicode) v6.0
OpenLink SQL Server Lite Driver v6.0
OpenLink SQLServer Driver (Express Edition) v6.0

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 8.17. OracleConfig3.png



OpenLink ODBC for Oracle (Express Edition) Setup Wizard

What name do you want to use to refer to this data source ?

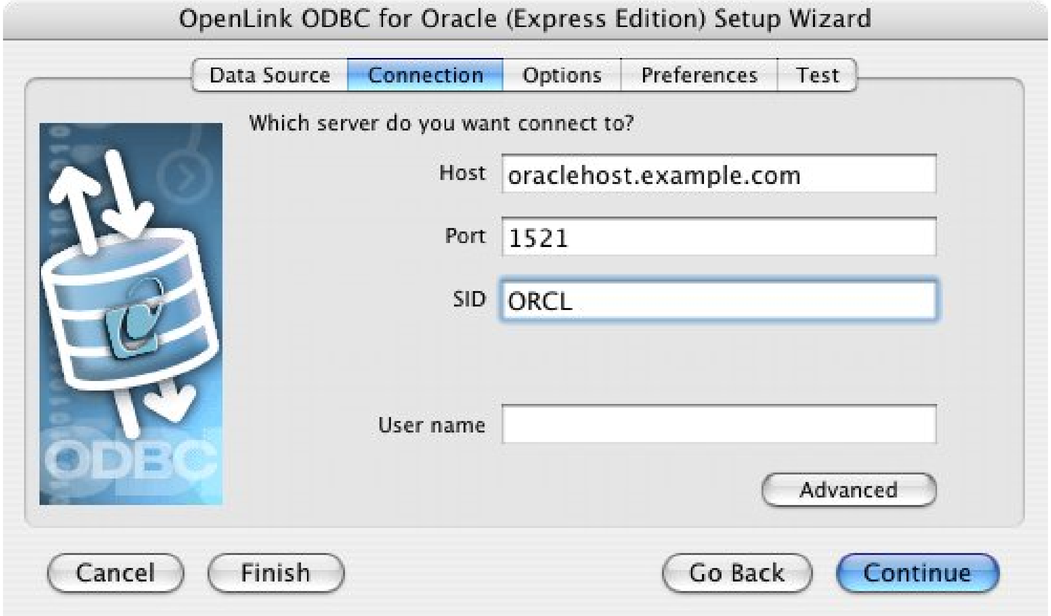
DSN: OracleExpressEditonDSN

How do you want to describe this data source ?

Description:

The Connection Tab request the minimum paramters required to make a connection to the target database:

Figure 8.18. OracleConfig4.png



Which server do you want connect to?

Host: oraclehost.example.com

Port: 1521

SID: ORCL

User name:

Host: This is the fully qualified hostname, or IP address, of the machine hosting the DBMS you wish to access, e.g., dbms-server.example.com, or 192.168.155.123. Any hostname which will be resolved by your local DNS is acceptable.

Port: The port that the Oracle instance listens on.

SID (Service Name): The Oracle System Identifier that refers to the instance of the Oracle database running on the server.

User Name: The name of a valid Oracle user.

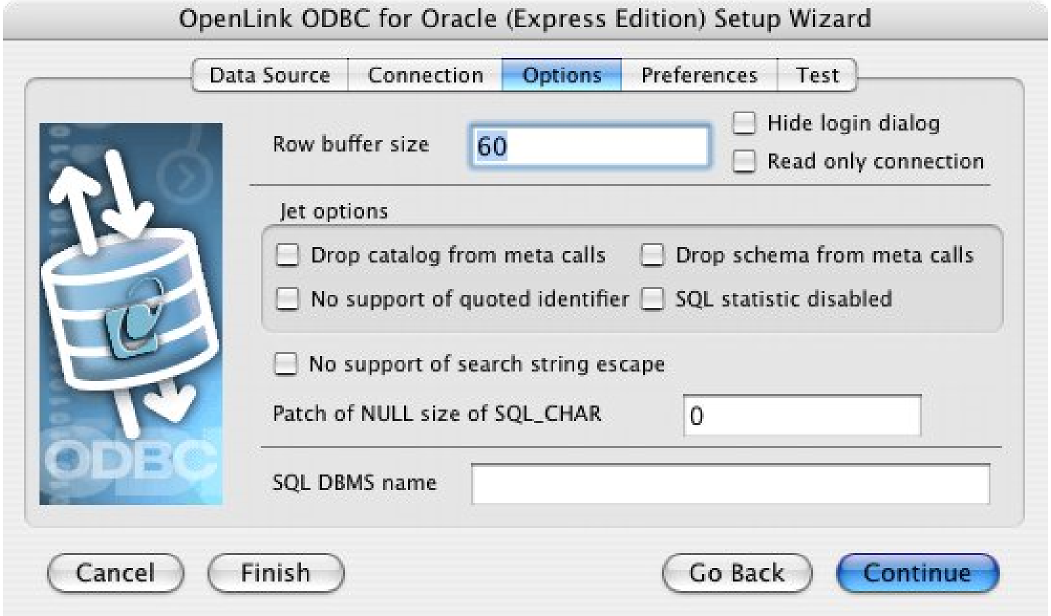
Advanced - Additional optional configuration paramters:

Table 8.1.

NetworkProtocol	Set the network protocol for the connections. Default is 'tcp'. Can be set to all possible protocols Net8 supports. Only needed for JDBC OCI driver.
MaxStatements	Specifies the value of the maxStatements property. This will be the size of the application cache (which will be used by both implicit and explicit caching).
ImplicitCachingEnabled	Sets the value of the implicitCachingEnabled property, which enables or disables the implicit cache. Note that this is independent of the cache size, set with setMaxStatements().
ExplicitCachingEnabled	Sets the value of the explicitCachingEnabled property, which enables or disables the explicit cache. Note that this is independent of the cache size, set with setMaxStatments().

As indiacted above the paramters of the options and preferences tabs are not required for a basic connection:

Figure 8.19. OracleConfig6.png



Row buffer size: 60

□ Hide login dialog

□ Read only connection

Jet options

□ Drop catalog from meta calls □ Drop schema from meta calls

□ No support of quoted identifier □ SQL statistic disabled

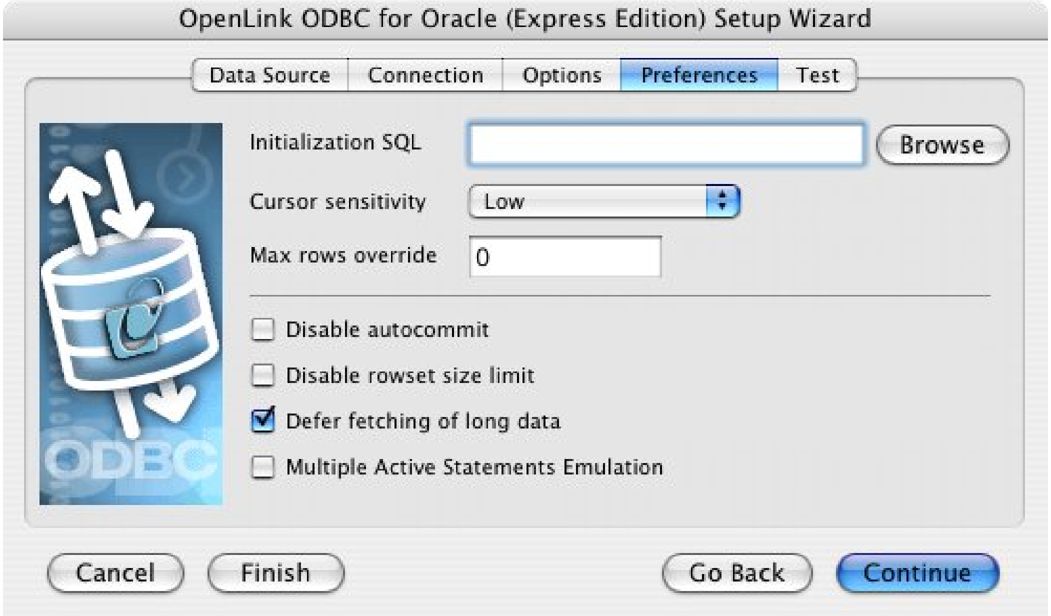
□ No support of search string escape

Patch of NULL size of SQL_CHAR: 0

SQL DBMS name:

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.
- *Hide Login Dialog* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.
- *Read Only connection* - Specify whether the connection is to be read-only. Make sure the checkbox is unchecked to request a read-write connection.
- *Drop Catalog from Meta calls* - Enable this option to have the catalog name not appear for tables, views and procedures when requesting database meta-data.
- *Drop Schema from Meta calls* - Enable this option to have the schema-name not appear for tables, views and procedures when requesting database metadata.
- *SQLStatistics disabled* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table (e.g. what indexes there are on it).
- *No support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if DBMS doesn't support quoted SQL such as select * from "account"
- *No support of search string escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if DBMS doesn't support SQL escape patterns
- *Patch of NULL size of SQL_CHAR* - If set this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0 the driver uses the size returned by the database.
- *SQL_DBMS Name* - Manually override the SQLGetInfo(SQL_DBMS_NAME) response returned by the driver. This is know to be required for products like Microsoft InfoPath for which the return the value should be "SQL Server".

Figure 8.20. OracleConfig7.png



OpenLink ODBC for Oracle (Express Edition) Setup Wizard

Initialization SQL: (empty) Browse

Cursor sensitivity: Low

Max rows override: 0

☐ Disable autocommit

☐ Disable rowset size limit

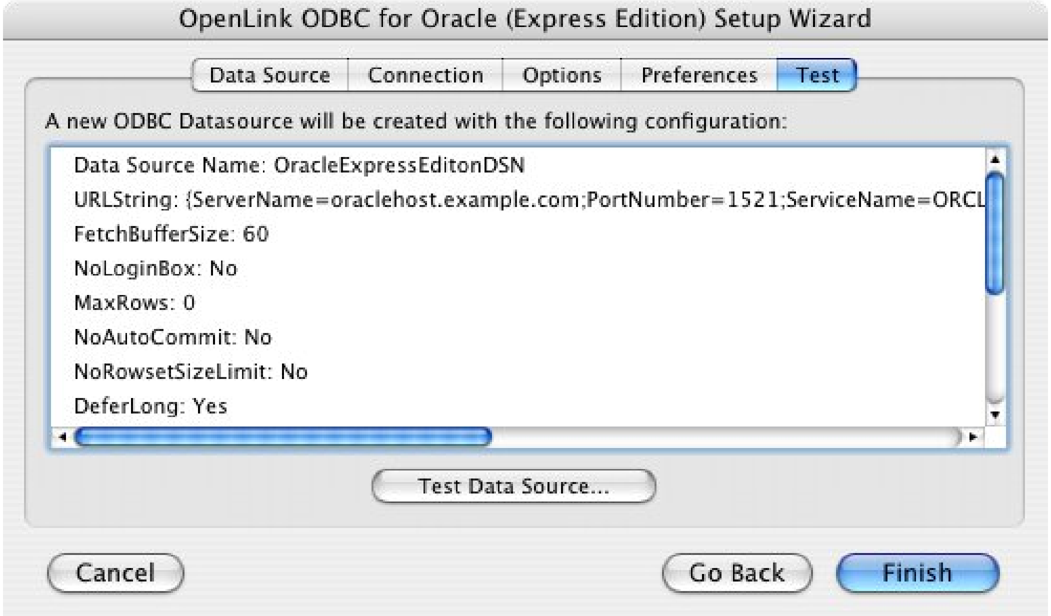
☑ Defer fetching of long data

☐ Multiple Active Statements Emulation

- *Initialization SQL* - Lets you specify a file containing SQL statements that will be run against the database upon connection, automatically.
- *Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows don't appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate script for the target database.
- *MaxRows Override* - Allows you to define a limit on the maximum number of rows to returned from a query. The default value of 0 means no limit.
- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Lite Driver. The default mode is AutoCommit mode (box unchecked).
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset is generated from an erroneous query is very large. The limit is normally never reached.
- *Defer fetching of long data* - Defer fetching of LONG (BINARY, BLOB etc.) data unless explicitly requested in query. This provides significant performance increase when fields in query does not include LONG data fields.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Click on the 'Test Data Source' button to make a connection to the database to verify connectivity:

Figure 8.21. OracleConfig8.png

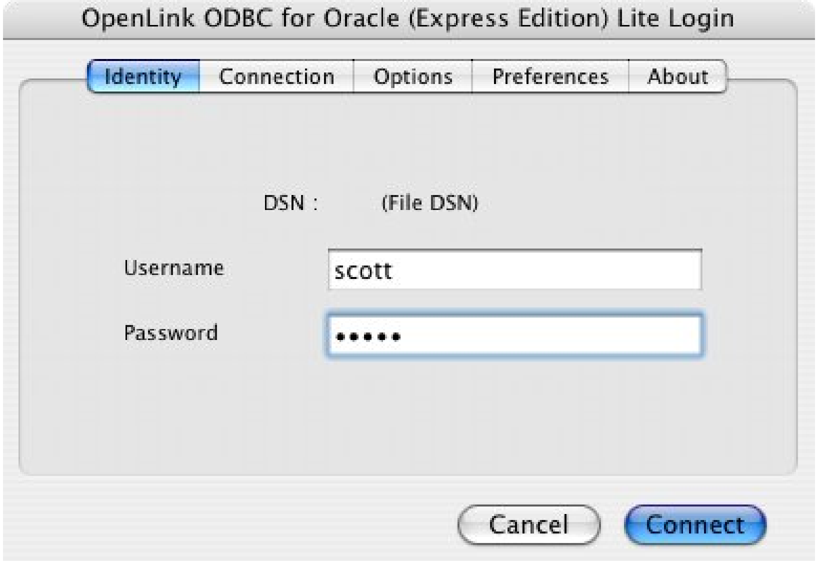


A new ODBC Datasource will be created with the following configuration:

Data Source Name: OracleExpressEditonDSN
URLString: {ServerName=oraclehost.example.com;PortNumber=1521;ServiceName=ORCL
FetchBufferSize: 60
NoLoginBox: No
MaxRows: 0
NoAutoCommit: No
NoRowsetSizeLimit: No
DeferLong: Yes

Enter a vaild username and pasword for the database:

Figure 8.22. OracleConfig9.png



DSN : (File DSN)

Username scott

Password •••••

A successful connection to the database has been made:

Figure 8.23. OracleSucess.png

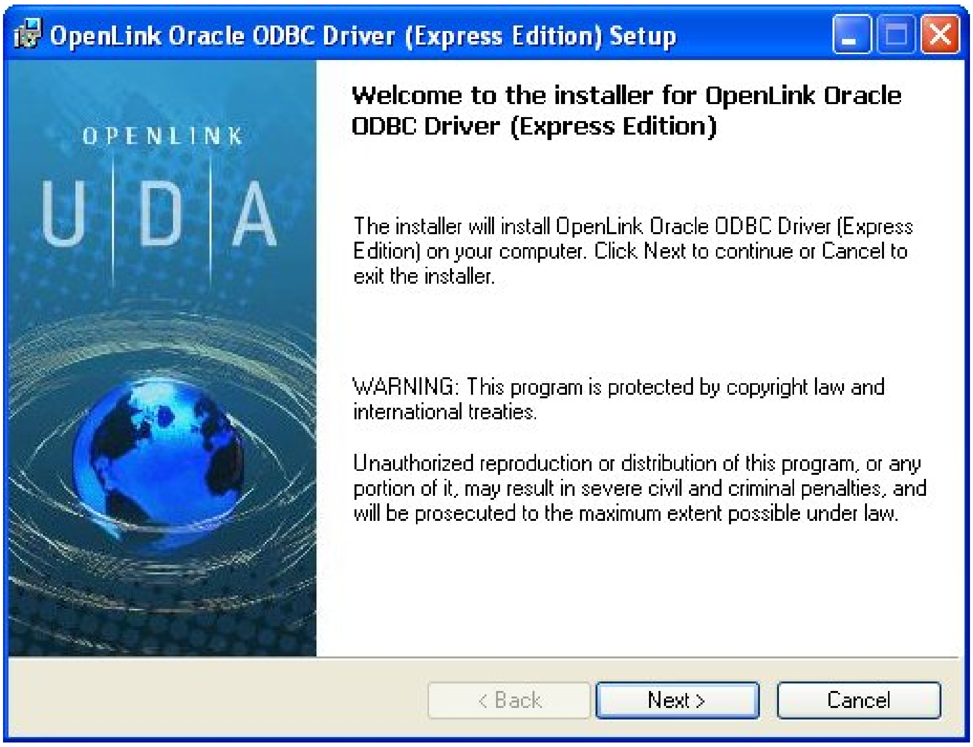
9.2 OpenLink ODBC Driver for Oracle (Express Editon) for Windows

9.2.1 Installation

The OpenLink ODBCDriver for Oracle (Express Edition) is distributed as a Windows MSI installer. Simply double click the installer 'ntl6eora.msi' to commence the installation.

Installer Welcome Dialog for the OpenLink ODBCDriver for Oracle(Express Edition):

Figure 8.24. EEWinOraScreen1i.png



OpenLink Oracle ODBC Driver (Express Edition) Setup

Welcome to the installer for OpenLink Oracle ODBC Driver (Express Edition)

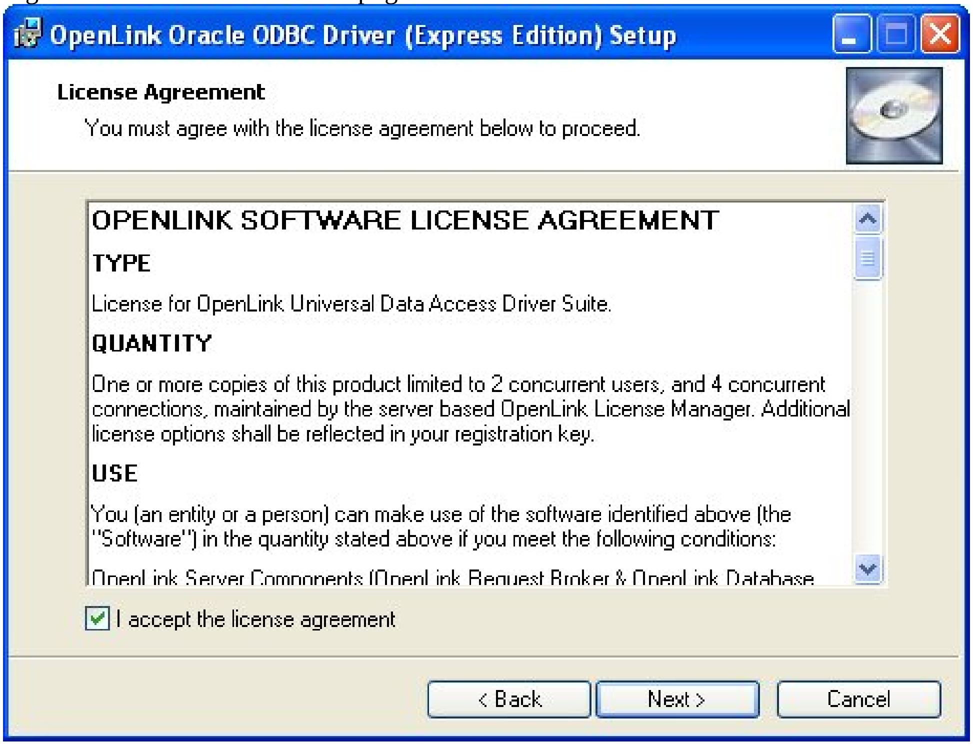
The installer will install OpenLink Oracle ODBC Driver (Express Edition) on your computer. Click Next to continue or Cancel to exit the installer.

WARNING: This program is protected by copyright law and international treaties.

Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.

Please read the software license agreement and accept before continuing your installation:

Figure 8.25. EEWinOraScreen3i.png



OpenLink Oracle ODBC Driver (Express Edition) Setup

License Agreement

You must agree with the license agreement below to proceed.

OPENLINK SOFTWARE LICENSE AGREEMENT

TYPE

License for OpenLink Universal Data Access Driver Suite.

QUANTITY

One or more copies of this product limited to 2 concurrent users, and 4 concurrent connections, maintained by the server based OpenLink License Manager. Additional license options shall be reflected in your registration key.

USE

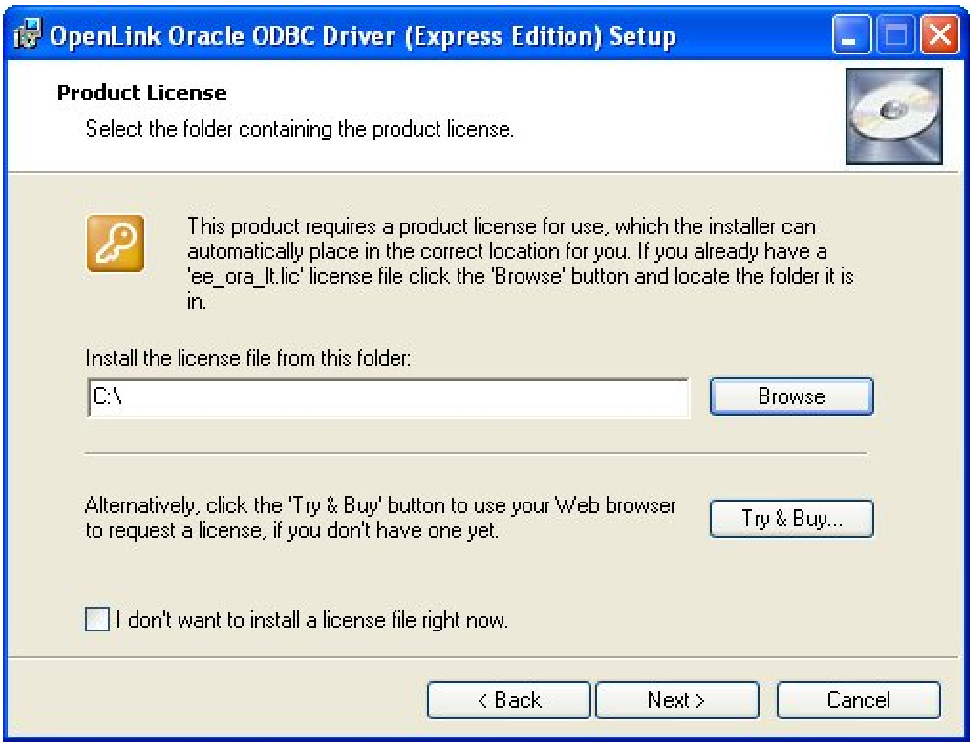
You (an entity or a person) can make use of the software identified above (the "Software") in the quantity stated above if you meet the following conditions:

OpenLink Server Components (OpenLink Request Broker & OpenLink Database

☑ I accept the license agreement

Before installation, you will be prompted for a license file. If a license file already exists on the machine, then select the 'use exisiting file' option. A trial (try) or full (buy) license can be obtained by selecting the 'try and buy' option, which loads OpenLink's online try and buy web page:

Figure 8.26. EEWinOraScreen4i.png



OpenLink Oracle ODBC Driver (Express Edition) Setup

Product License

Select the folder containing the product license.

This product requires a product license for use, which the installer can automatically place in the correct location for you. If you already have a 'ee_ora_lt.lic' license file click the 'Browse' button and locate the folder it is in.

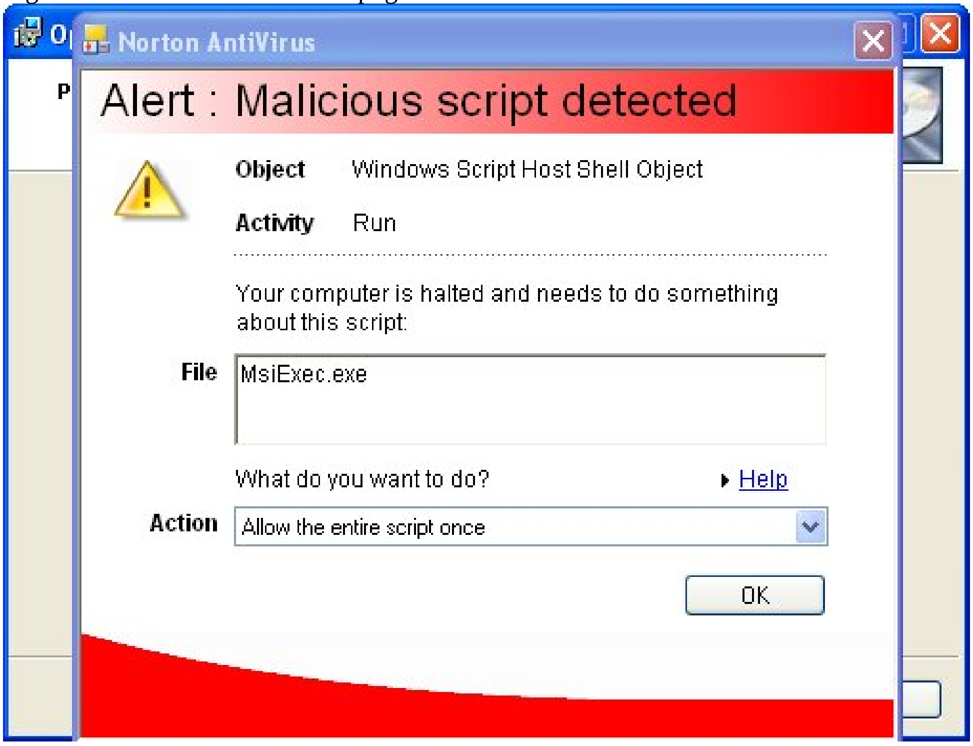
Install the license file from this folder: C:\

Alternatively, click the 'Try & Buy' button to use your Web browser to request a license, if you don't have one yet.

□ I don't want to install a license file right now.

If you are using Nortons Anti-Virus Software, you may encouter this warning message. Choose Allow the Entire Script once option:

Figure 8.27. EEWinOraScreen5i.png



Norton AntiVirus

Alert : Malicious script detected

Object Windows Script Host Shell Object

Activity Run

Your computer is halted and needs to do something about this script:

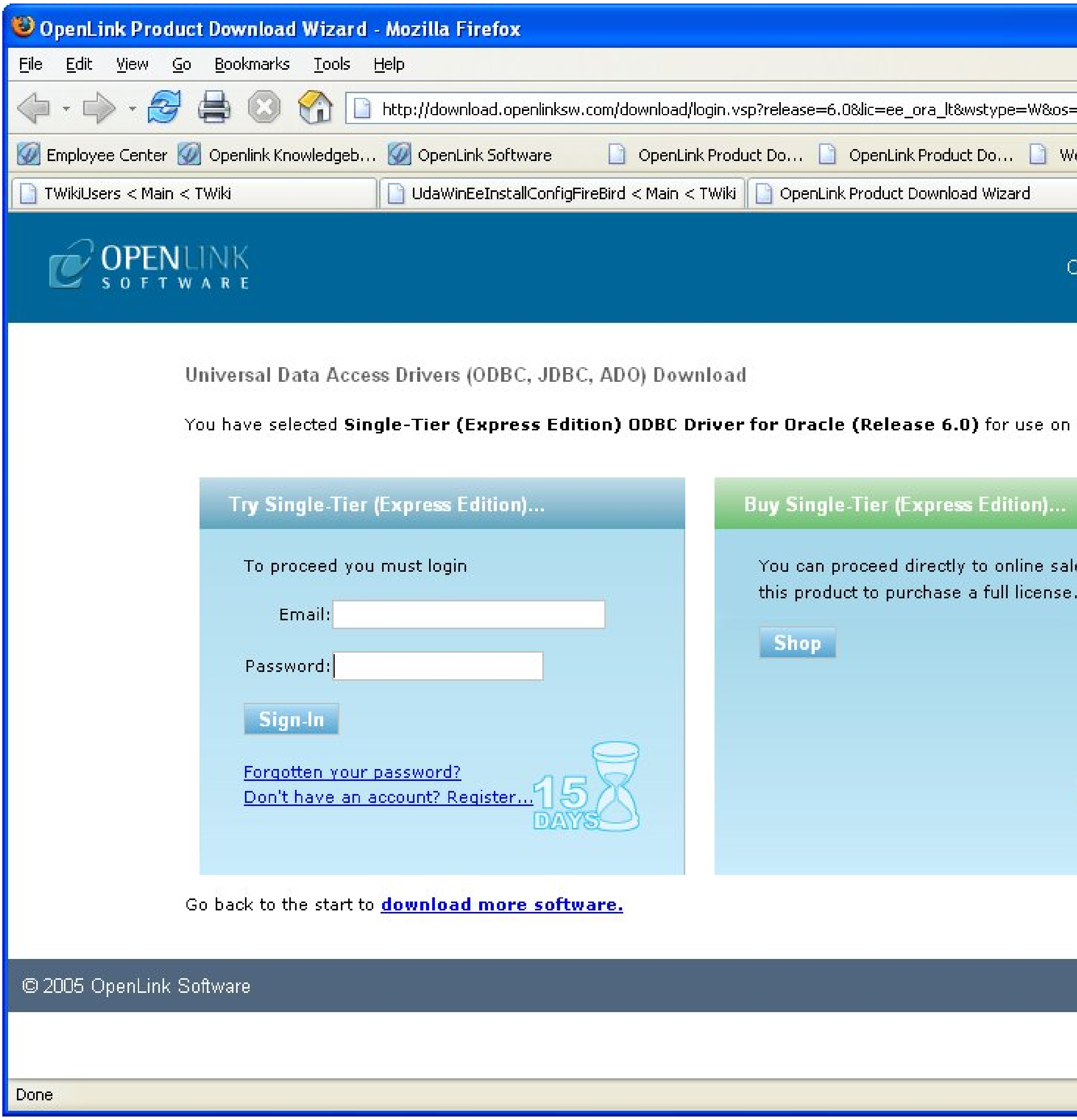
File MsiExec.exe

What do you want to do?

Action Allow the entire script once

To obtain the trial license, you must be a registered user on the OpenLinkWeb site and login with the username (e-mail address) and password for that user. Click on the 'Shop' link to visit Openlink's online shop cart to purchase a full license, if required:

Figure 8.28. EEWinOraScreen6i.png


OpenLink Product Download Wizard - Mozilla Firefox
File Edit View Go Bookmarks Tools Help
http://download.openlinksw.com/download/login.vsp?release=6.0&lic=ee_ora_lt&wstype=W&os=
Employee Center
Openlink Knowledgeb...
OpenLink Software
OpenLink Product Do...
OpenLink Product Do...
TWikiUsers < Main < TWiki
UdaWinEeInstallConfigFireBird < Main < TWiki
OpenLink Product Download Wizard
OPENLINK SOFTWARE

Universal Data Access Drivers (ODBC, JDBC, ADO) Download

You have selected **Single-Tier (Express Edition) ODBC Driver for Oracle (Release 6.0)** for use on

Try Single-Tier (Express Edition)...

To proceed you must login

Email:

Password:

Sign-In
Forgotten your password?
Don't have an account? Register...
15 DAYS

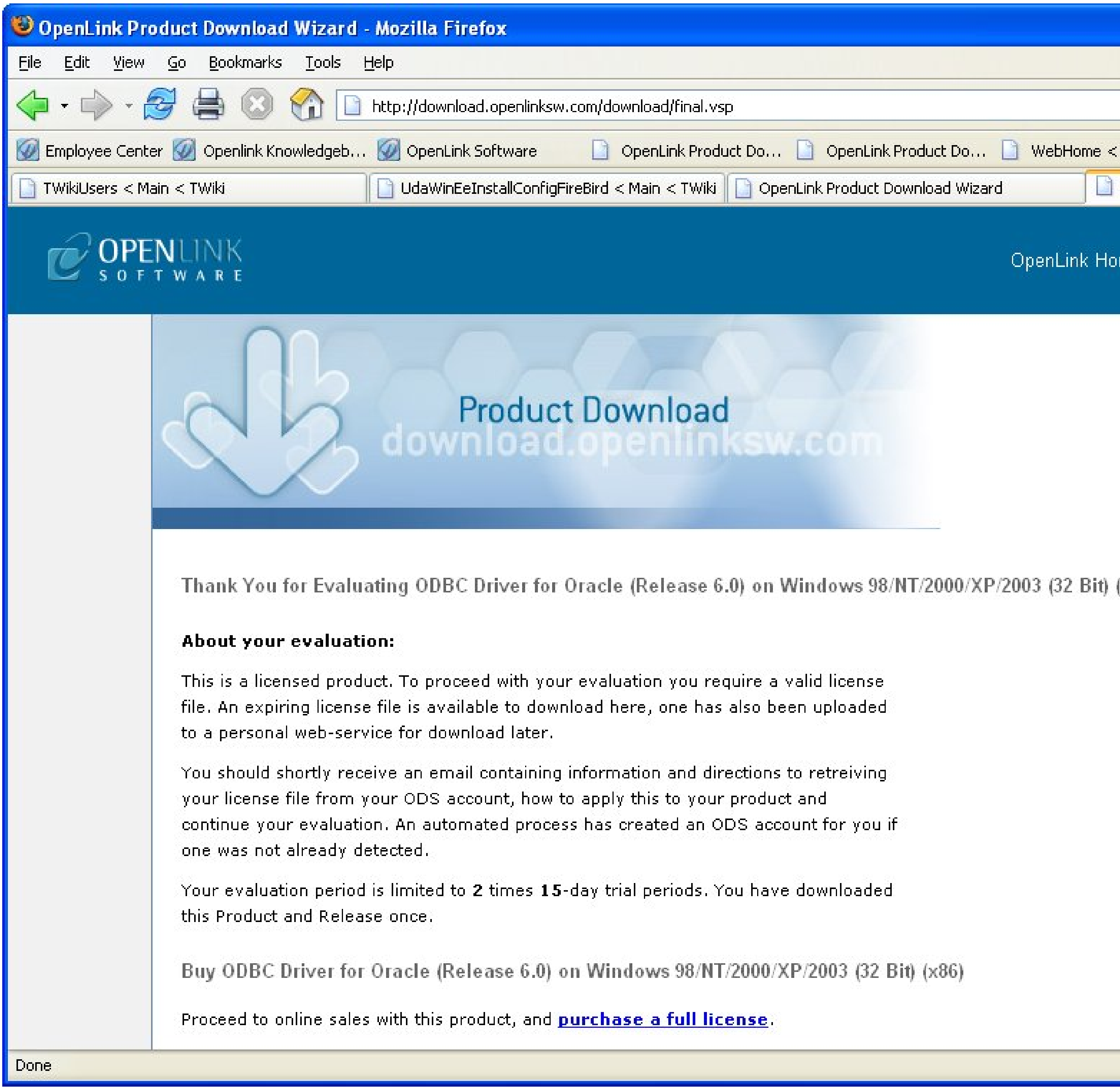
Buy Single-Tier (Express Edition)...

You can proceed directly to online sal
this product to purchase a full license.

Go back to the start to **download more software.**

Click on the 'download license' button to immediately obtain the license file and save it to your desktop. Alternatively, an auto-generated e-mail will be sent to your registered user's e-mail address with a link to your OpenLinkData Space (ODS), which contains all trial and full licenses in the Briefcase for download at a later date.

Figure 8.29. EEWinOraScreen7i.png


OpenLink Product Download Wizard - Mozilla Firefox
File Edit View Go Bookmarks Tools Help
http://download.openlinksw.com/download/final.vsp
Employee Center
Openlink Knowledgeb...
OpenLink Software
OpenLink Product Do...
OpenLink Product Do...
WebHome <
TWikiUsers < Main < TWiki
UdaWinEeInstallConfigFireBird < Main < TWiki
OpenLink Product Download Wizard
OPENLINK SOFTWARE
OpenLink Ho
Product Download
download.openlinksw.com
Done

Thank You for Evaluating ODBC Driver for Oracle (Release 6.0) on Windows 98/NT/2000/XP/2003 (32 Bit) (

About your evaluation:

This is a licensed product. To proceed with your evaluation you require a valid license file. An expiring license file is available to download here, one has also been uploaded to a personal web-service for download later.

You should shortly receive an email containing information and directions to retreiving your license file from your ODS account, how to apply this to your product and continue your evaluation. An automated process has created an ODS account for you if one was not already detected.

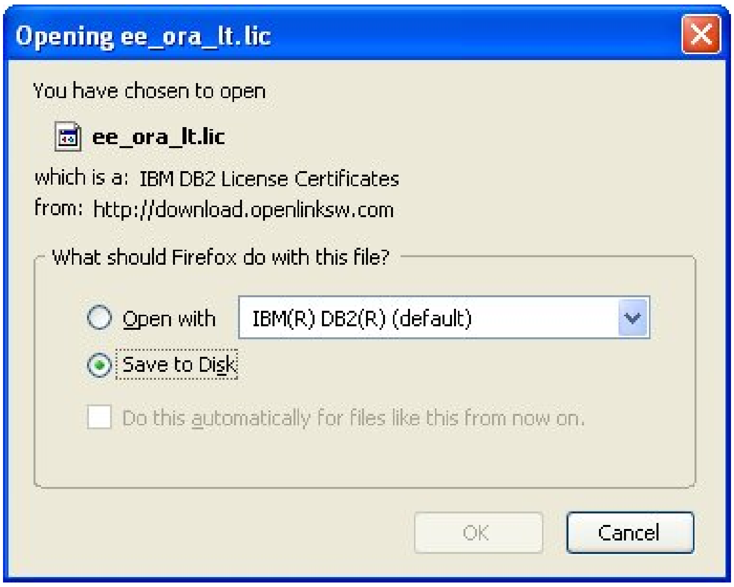
Your evaluation period is limited to **2** times **15**-day trial periods. You have downloaded this Product and Release once.

Buy ODBC Driver for Oracle (Release 6.0) on Windows 98/NT/2000/XP/2003 (32 Bit) (x86)

Proceed to online sales with this product, and **purchase a full license**.

You will want to save the file to disk:

Figure 8.30. EEWinOraScreen8i.png



Opening ee_ora_lt.lic

You have chosen to open

ee_ora_lt.lic

which is a: IBM DB2 License Certificates
from: http://download.openlinksw.com

What should Firefox do with this file?

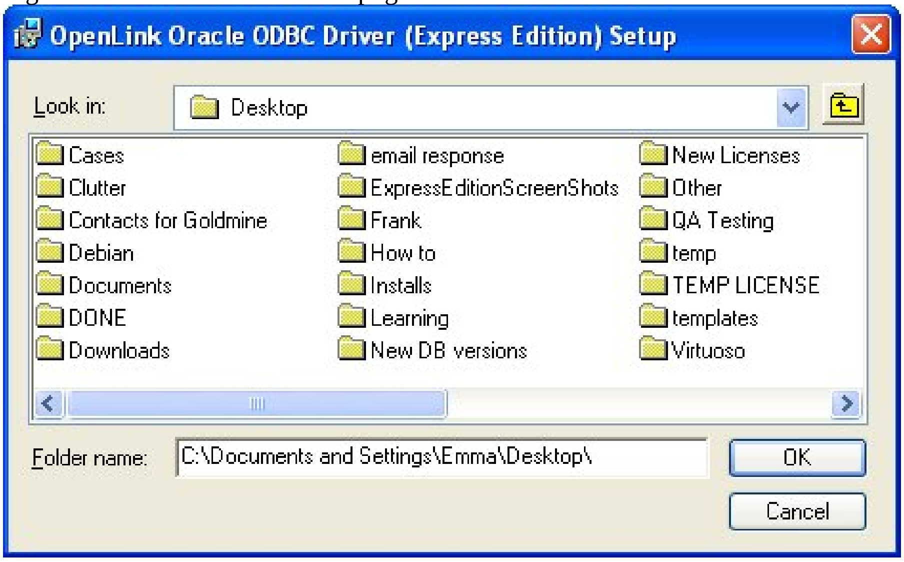
○ Open with IBM(R) DB2(R) (default)

● Save to Disk

□ Do this automatically for files like this from now on.

Select the license file to be used for the installation:

Figure 8.31. EEWinOraScreen9i.png



OpenLink Oracle ODBC Driver (Express Edition) Setup

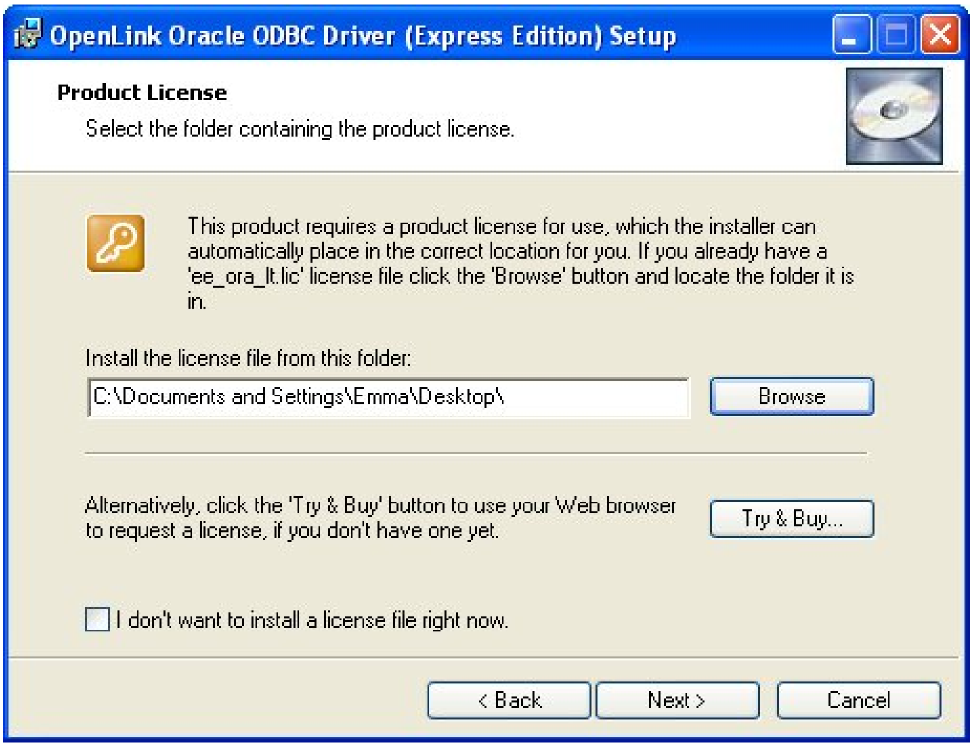
Look in: Desktop

Cases
Clutter
Contacts for Goldmine
Debian
Documents
DONE
Downloads
email response
ExpressEditionScreenShots
Frank
How to
Installs
Learning
New DB versions
New Licenses
Other
QA Testing
temp
TEMP LICENSE
templates
Virtuoso

Folder name: C:\Documents and Settings\Emma\Desktop\

Make sure that the path to where the license file is located is correct before selecting Next:

Figure 8.32. EEWinOraScreen10i.png



OpenLink Oracle ODBC Driver (Express Edition) Setup

Product License

Select the folder containing the product license.

This product requires a product license for use, which the installer can automatically place in the correct location for you. If you already have a 'ee_ora_lt.lic' license file click the 'Browse' button and locate the folder it is in.

Install the license file from this folder:

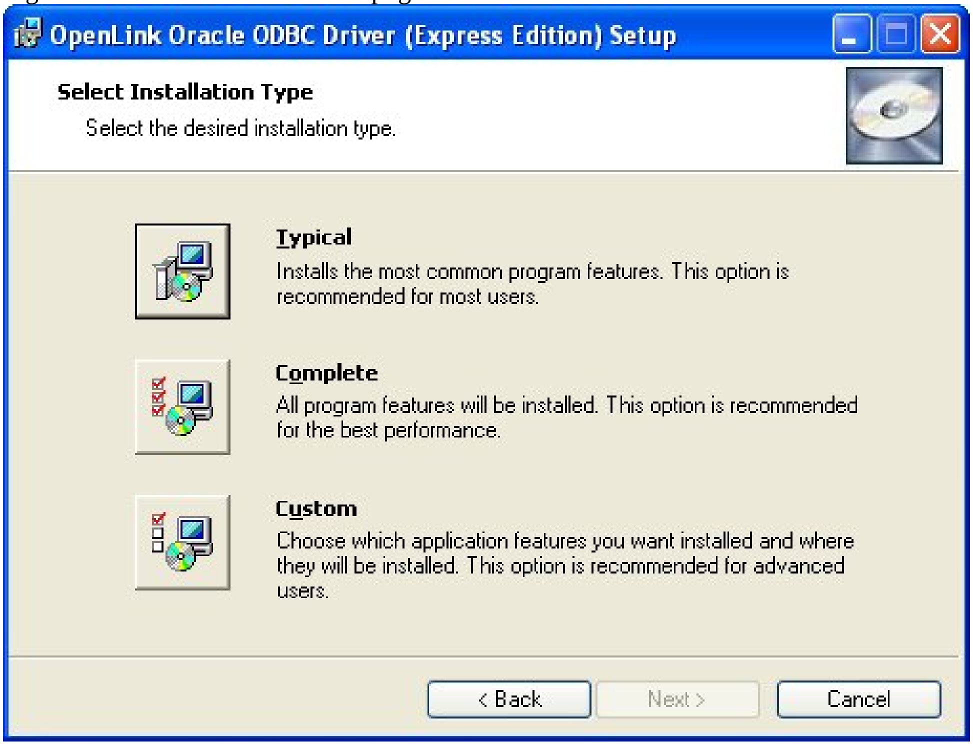
C:\Documents and Settings\Emma\Desktop\

Alternatively, click the 'Try & Buy' button to use your Web browser to request a license, if you don't have one yet.

□ I don't want to install a license file right now.

Choose to perform a custom, typical, or complete installation of the driver:

Figure 8.33. EEWinOraScreen11i.png



OpenLink Oracle ODBC Driver (Express Edition) Setup

Select Installation Type

Select the desired installation type.

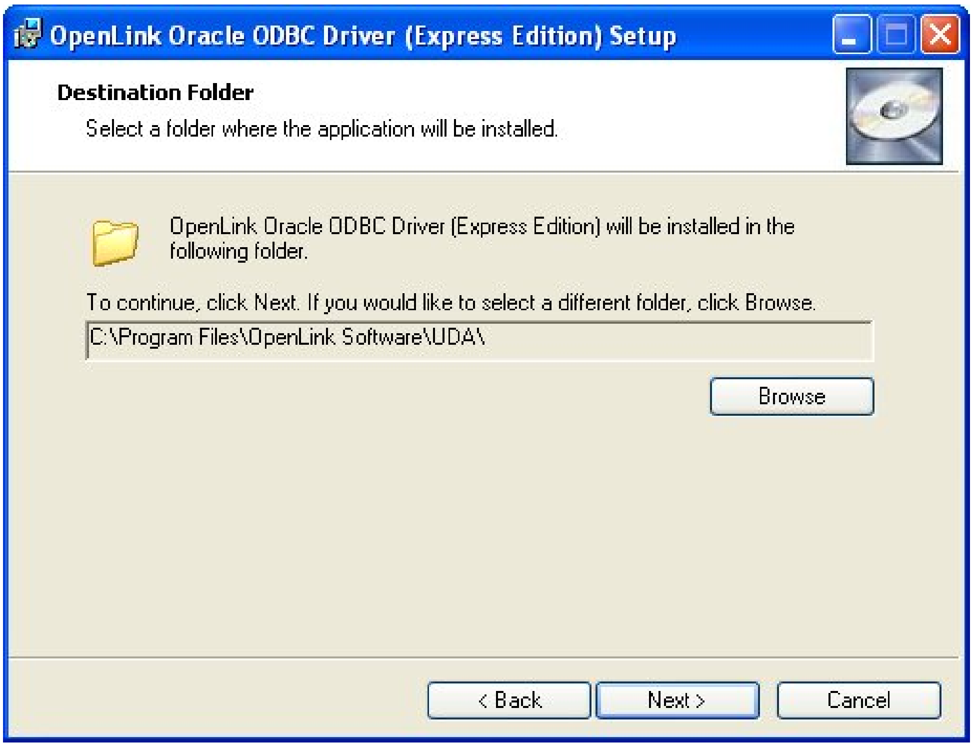
Typical
Installs the most common program features. This option is recommended for most users.

Complete
All program features will be installed. This option is recommended for the best performance.

Custom
Choose which application features you want installed and where they will be installed. This option is recommended for advanced users.

With a custom installation, you can decide the directory where the installation will reside:

Figure 8.34. EEWinOraCustom1.png



OpenLink Oracle ODBC Driver (Express Edition) Setup

Destination Folder

Select a folder where the application will be installed.

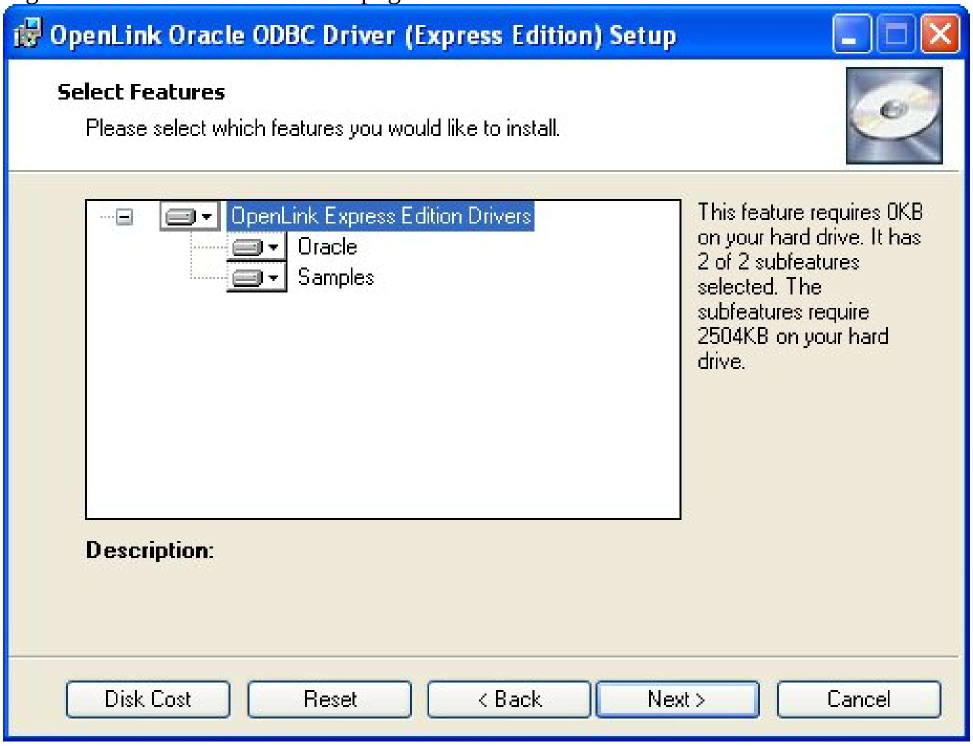
OpenLink Oracle ODBC Driver (Express Edition) will be installed in the following folder.

To continue, click Next. If you would like to select a different folder, click Browse.

C:\Program Files\OpenLink Software\UDA\

Select the features to be installed:

Figure 8.35. EEWinOraCustom2.png



OpenLink Oracle ODBC Driver (Express Edition) Setup

Select Features

Please select which features you would like to install.

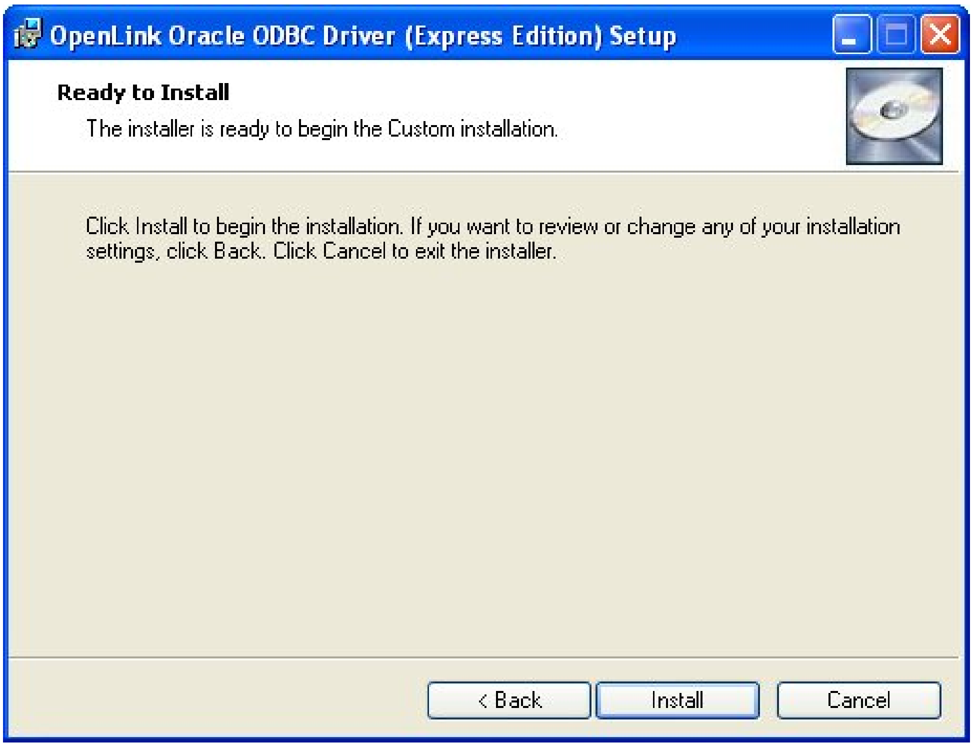
- OpenLink Express Edition Drivers
  - Oracle
  - Samples

This feature requires 0KB on your hard drive. It has 2 of 2 subfeatures selected. The subfeatures require 2504KB on your hard drive.

Description:

Click the install button to begin installation of the components:

Figure 8.36. EEWinOraCustom3.png



OpenLink Oracle ODBC Driver (Express Edition) Setup

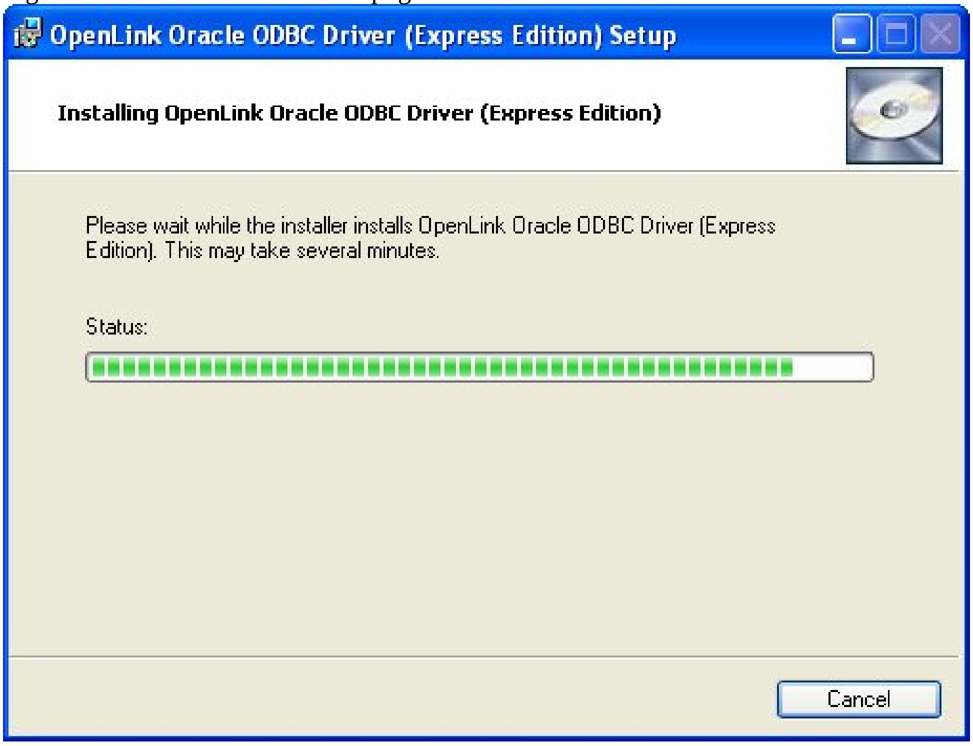
Ready to Install

The installer is ready to begin the Custom installation.

Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the installer.

Installation in progress:

Figure 8.37. EEWinOraScreen13i.png



OpenLink Oracle ODBC Driver (Express Edition) Setup

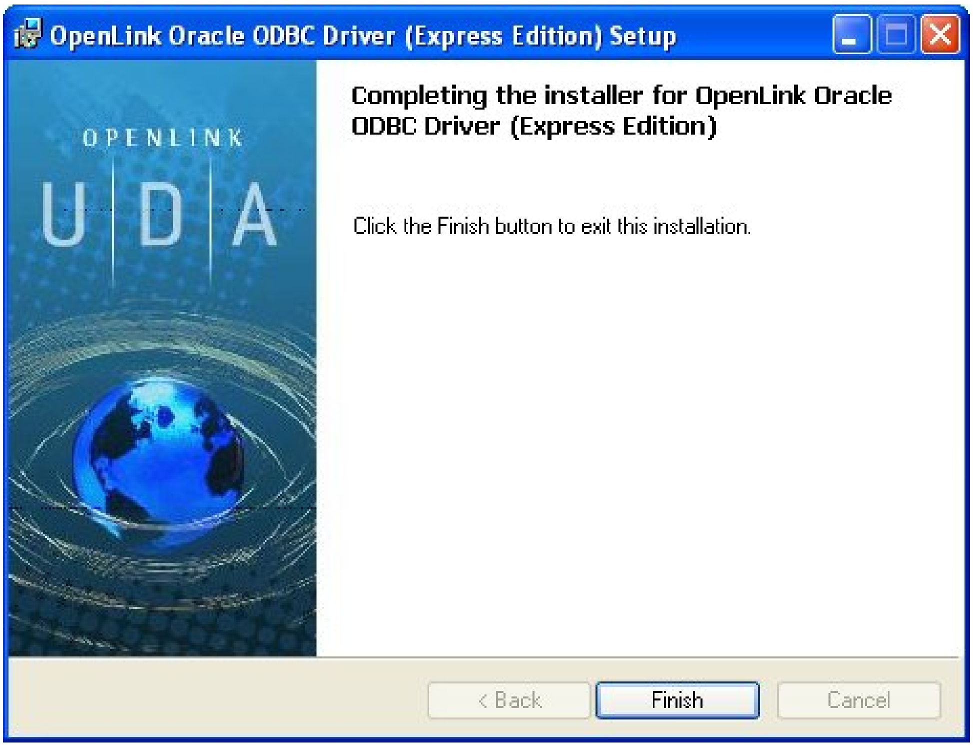
Installing OpenLink Oracle ODBC Driver (Express Edition)

Please wait while the installer installs OpenLink Oracle ODBC Driver (Express Edition). This may take several minutes.

Status:

The software installation is complete and ready for use:

Figure 8.38. EEWinOraScreen14i.png



OpenLink Oracle ODBC Driver (Express Edition) Setup

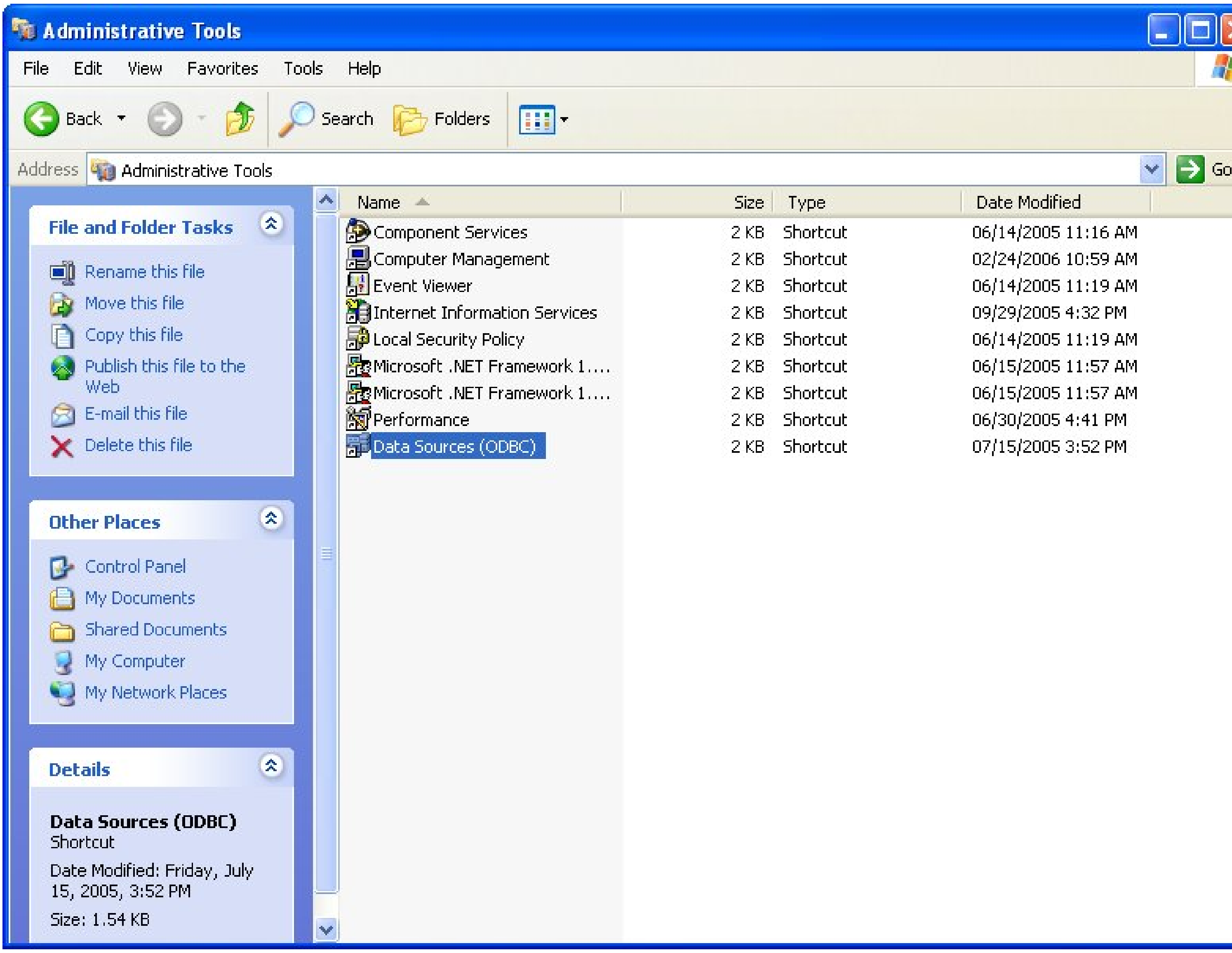
Completing the installer for OpenLink Oracle ODBC Driver (Express Edition)

Click the Finish button to exit this installation.

9.2.2 Configuration

To configure an ODBCDSN, run the ODBCAdministrator located in the Administrative Tools section of the Control Panel:

Figure 8.39. EEWinOraScreen1c.png

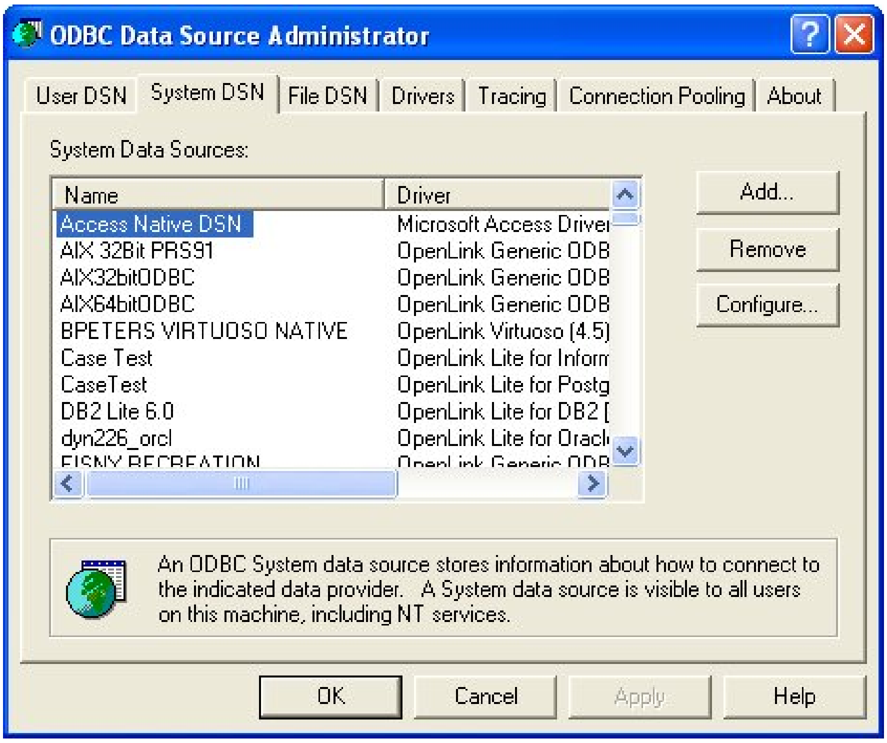


Name	Size	Type	Date Modified
Component Services	2 KB	Shortcut	06/14/2005 11:16 AM
Computer Management	2 KB	Shortcut	02/24/2006 10:59 AM
Event Viewer	2 KB	Shortcut	06/14/2005 11:19 AM
Internet Information Services	2 KB	Shortcut	09/29/2005 4:32 PM
Local Security Policy	2 KB	Shortcut	06/14/2005 11:19 AM
Microsoft .NET Framework 1....	2 KB	Shortcut	06/15/2005 11:57 AM
Microsoft .NET Framework 1....	2 KB	Shortcut	06/15/2005 11:57 AM
Performance	2 KB	Shortcut	06/30/2005 4:41 PM
Data Sources (ODBC)	2 KB	Shortcut	07/15/2005 3:52 PM

Data Sources (ODBC)
Shortcut
Date Modified: Friday, July 15, 2005, 3:52 PM
Size: 1.54 KB

From either the User or System DSN tab, click on the Add button:

Figure 8.40. EEWinOraScreen2c.png



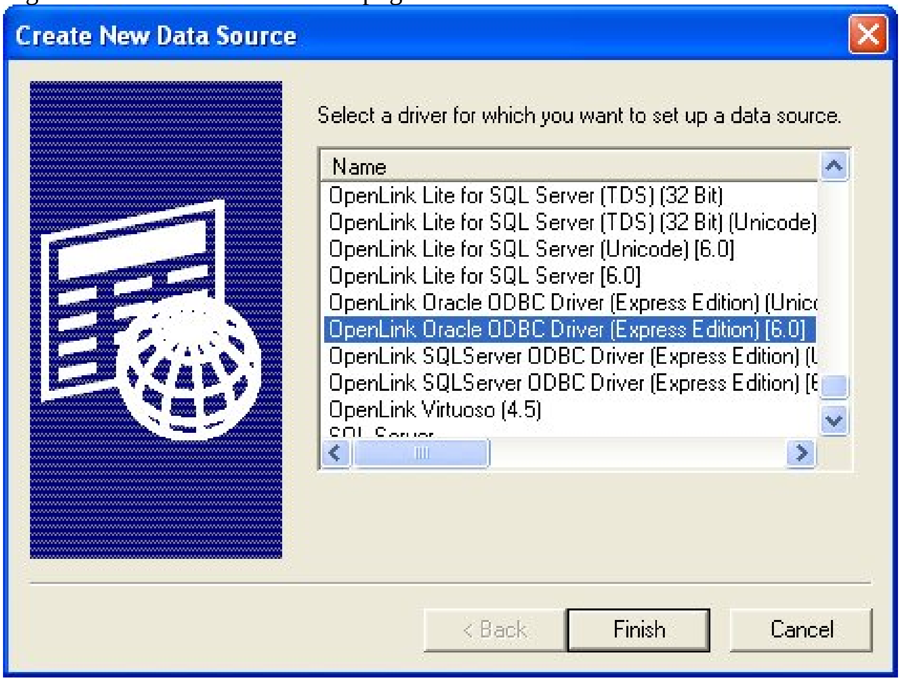
System Data Sources:

Name	Driver
Access Native DSN	Microsoft Access Driver
AIX 32Bit PRS91	OpenLink Generic ODB
AIX32bitODBC	OpenLink Generic ODB
AIX64bitODBC	OpenLink Generic ODB
BPETERS VIRTUOSO NATIVE	OpenLink Virtuoso (4.5)
Case Test	OpenLink Lite for Inform
CaseTest	OpenLink Lite for Postg
DB2 Lite 6.0	OpenLink Lite for DB2 [
dyn226_orcl	OpenLink Lite for Oracl
EISNY RECREATION	OpenLink Generic ODB

An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users on this machine, including NT services.

Select the OpenLinkSQLServer ODBCDriver [Express Edition][6.0] from the list presented:

Figure 8.41. EEWinOraScreen3c.png

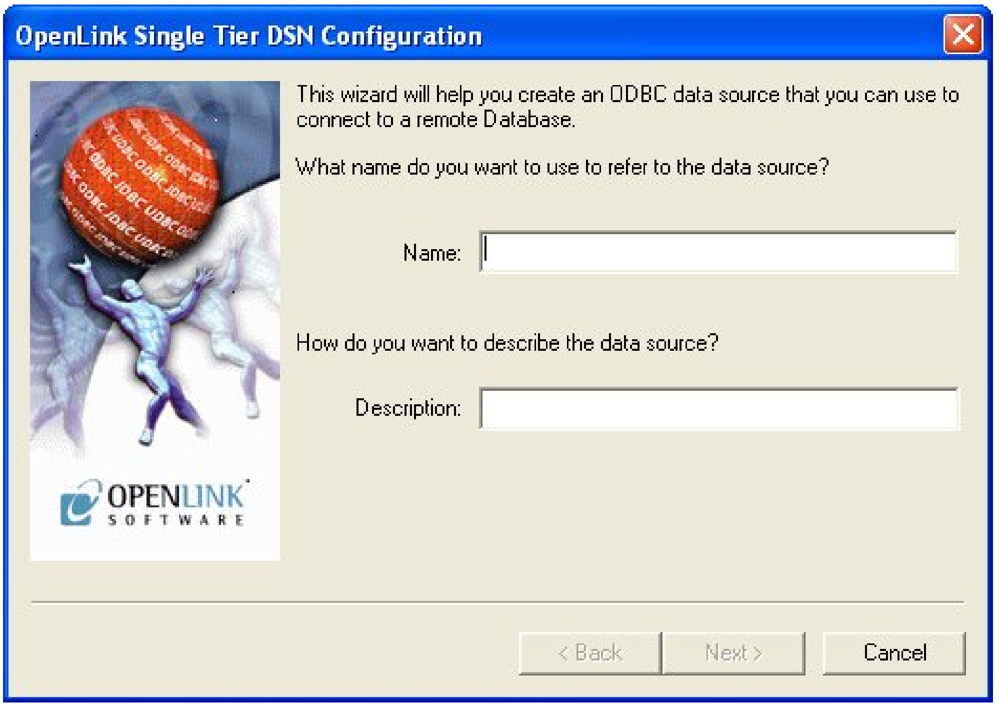


Select a driver for which you want to set up a data source.

Name
OpenLink Lite for SQL Server (TDS) (32 Bit)
OpenLink Lite for SQL Server (TDS) (32 Bit) (Unicode)
OpenLink Lite for SQL Server (Unicode) [6.0]
OpenLink Lite for SQL Server [6.0]
OpenLink Oracle ODBC Driver (Express Edition) (Unicc
OpenLink Oracle ODBC Driver (Express Edition) [6.0]
OpenLink SQLServer ODBC Driver (Express Edition) (L
OpenLink SQLServer ODBC Driver (Express Edition) [E
OpenLink Virtuoso (4.5)
SQL Server

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 8.42. EEWinOraScreen4c.png



OpenLink Single Tier DSN Configuration

This wizard will help you create an ODBC data source that you can use to connect to a remote Database.

What name do you want to use to refer to the data source?

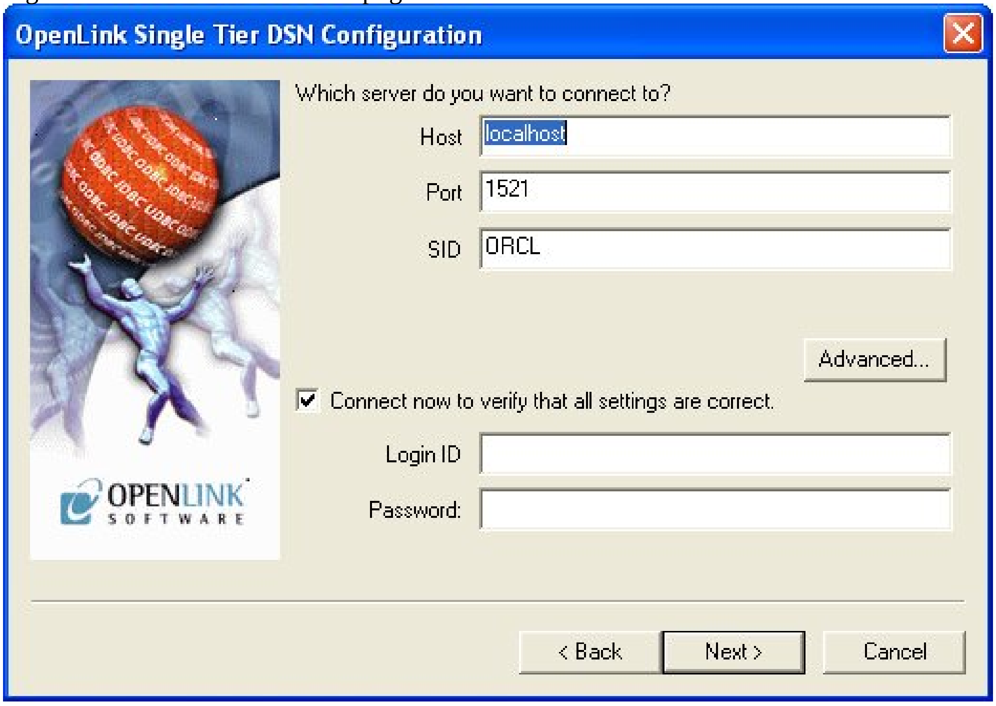
Name:

How do you want to describe the data source?

Description:

The Connection tab requests the minimum parameters required to make a connection to the target database:

Figure 8.43. EEWinOraScreen5c.png



OpenLink Single Tier DSN Configuration

Which server do you want to connect to?

Host localhost

Port 1521

SID ORCL

☑ Connect now to verify that all settings are correct.

Login ID

Password:

- *Host* : This is the fully qualified hostname, or IP address, of the machine hosting the DBMS you wish to access, e.g., dbms-server.example.com, or 192.168.155.123. Any hostname which will be resolved by your local DNS is acceptable.

- *Port* : This is the port that Oracle is listening on

- *SID* (Service Name) : The Oracle System Identifier that refers to the instance of the Oracle database running on the server.

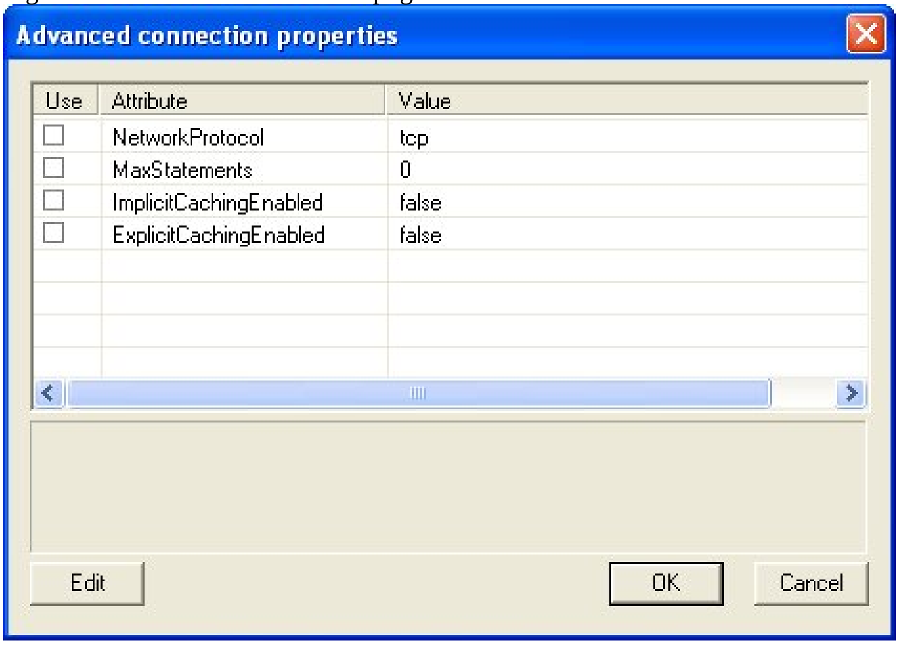
- *Login* : This is a valid user for the Oracle Database

- *Password* : This is a valid password for the Oracle Database

Click next to verify that all settings are correct or uncheck the check box to delay testing to a later stage.

The advanced button displays additional optional parameters that can be configured:

Figure 8.44. EEWinOraAdvanced.png



Advanced connection properties

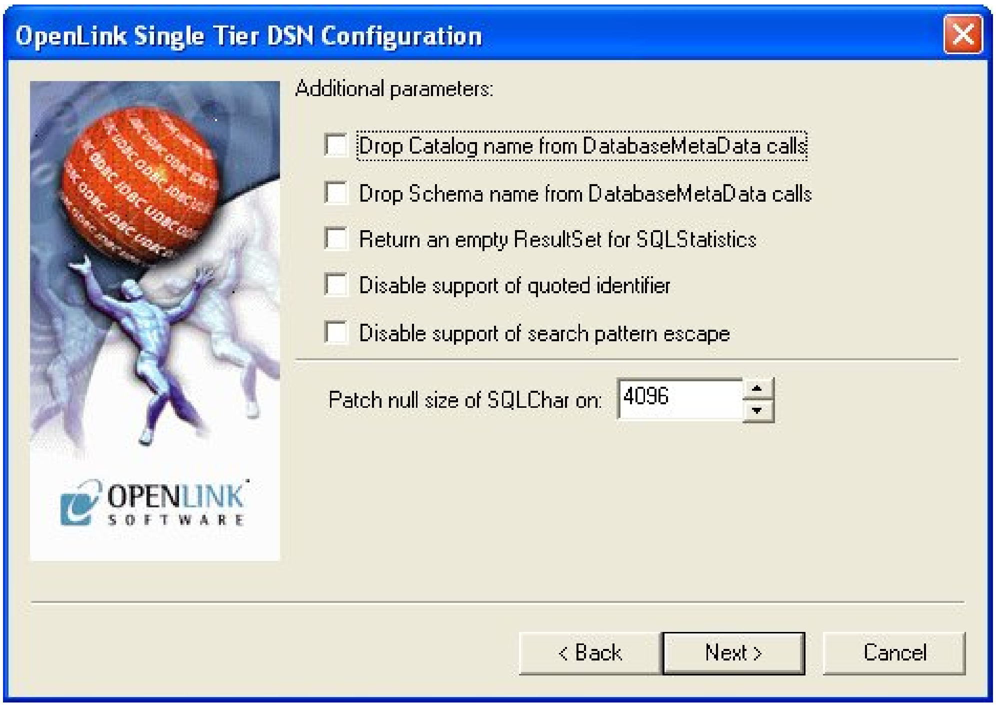
Use	Attribute	Value
□	NetworkProtocol	tcp
□	MaxStatements	0
□	ImplicitCachingEnabled	false
□	ExplicitCachingEnabled	false

Table 8.2.

NetworkProtocol	Set the network protocol for the connections. Default is 'tcp'. Can be set to all possible protocols Net8 supports. Only needed for JDBC OCI driver.
MaxStatements	Specifies the value of the maxStatements property. This will be the size of the application cache (which will be used by both implicit and explicit caching).
ImplicitCachingEnabled	Sets the value of the implicitCachingEnabled property, which enables or disables the implicit cache. Note that this is independent of the cache size, set with setMaxStatements().
ExplicitCachingEnabled	Sets the value of the explicitCachingEnabled property, which enables or disables the explicit cache. Note that this is independent of the cache size, set with setMaxStatments().

As indicated above, the parameters on the options and preferences tabs are not required for a basic connection.

Figure 8.45. EEWinOraScreen6c.png



OpenLink Single Tier DSN Configuration

Additional parameters:

□ Drop Catalog name from DatabaseMetaData calls

□ Drop Schema name from DatabaseMetaData calls

□ Return an empty ResultSet for SQLStatistics

□ Disable support of quoted identifier

□ Disable support of search pattern escape

Patch null size of SQLChar on: 4096

- *Drop Catalog name from DatabaseMetaData calls* - Enable this option to have the catalog name not appear for tables, views, and procedures when requesting database meta-data.,

- *Drop Schema name from DatabaseMetaData calls* - Enable this option to have the schema-name not appear for tables, views, and procedures when requesting database meta-data.

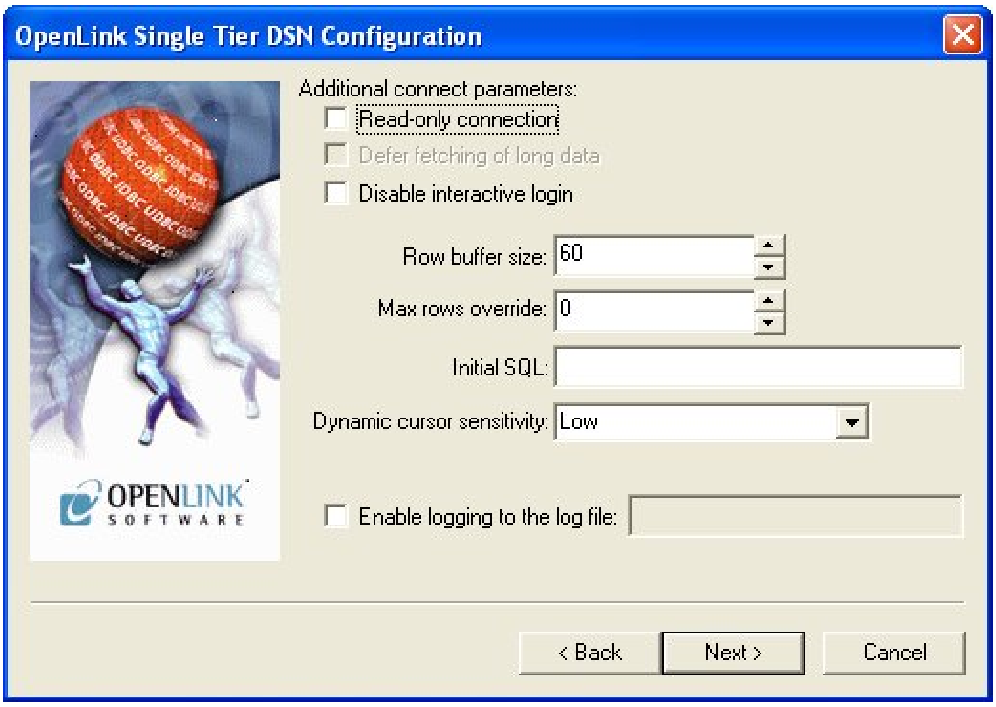
- *Return an empty ResultSet for SQLStatistics* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table (e.g., what indexes there are on it).

- *Disable support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if DBMS does not support quoted SQL, e.g., select * from "account"

- *Disable support of search pattern escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if DBMS doesn't support SQL escape patterns

- *Patch of NULL size of SQL_CHAR* - If set, this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0 the driver uses the size returned by the database.

Figure 8.46. EEWinOraScreen7c.png



OpenLink Single Tier DSN Configuration

Additional connect parameters:

□ Read-only connection

□ Defer fetching of long data

□ Disable interactive login

Row buffer size: 60

Max rows override: 0

Initial SQL:

Dynamic cursor sensitivity: Low

□ Enable logging to the log file:

- *Read-only connection* - Specify whether the connection is to be "Read-only". Make sure the checkbox is unchecked to request a "Read/Write" connection.

- *Disable interactive login* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.

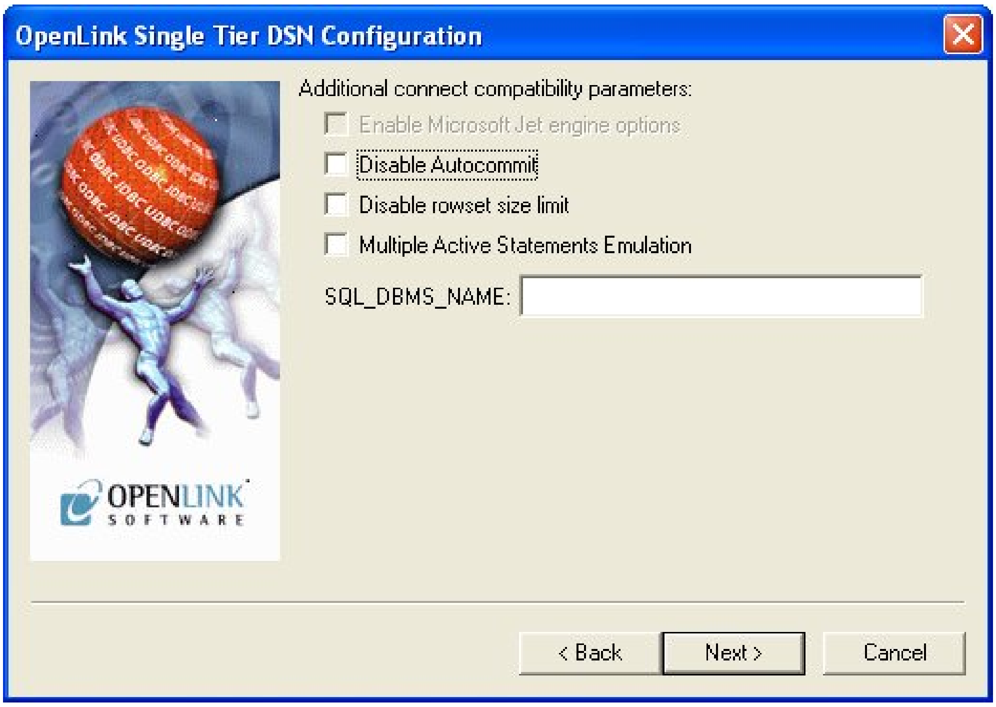
- *Max rows Override* - Allows you to define a limit on the maximum number of rows to returned from a query. The default value of 0 means no limit.

- *Initial SQL* - Lets you specify a file containing SQL statements that will be automatically run against the database upon connection.

- *Dynamic cursor sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows do not appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate OpenLink script for the target database.

- *Enable logging to the log file:* - Specifies the full path to a text file. If the associated checkbox is checked, and a file is passed, the driver will log auto-generate a clientside ODBC trace.

Figure 8.47. EEWinOraScreen8c.png



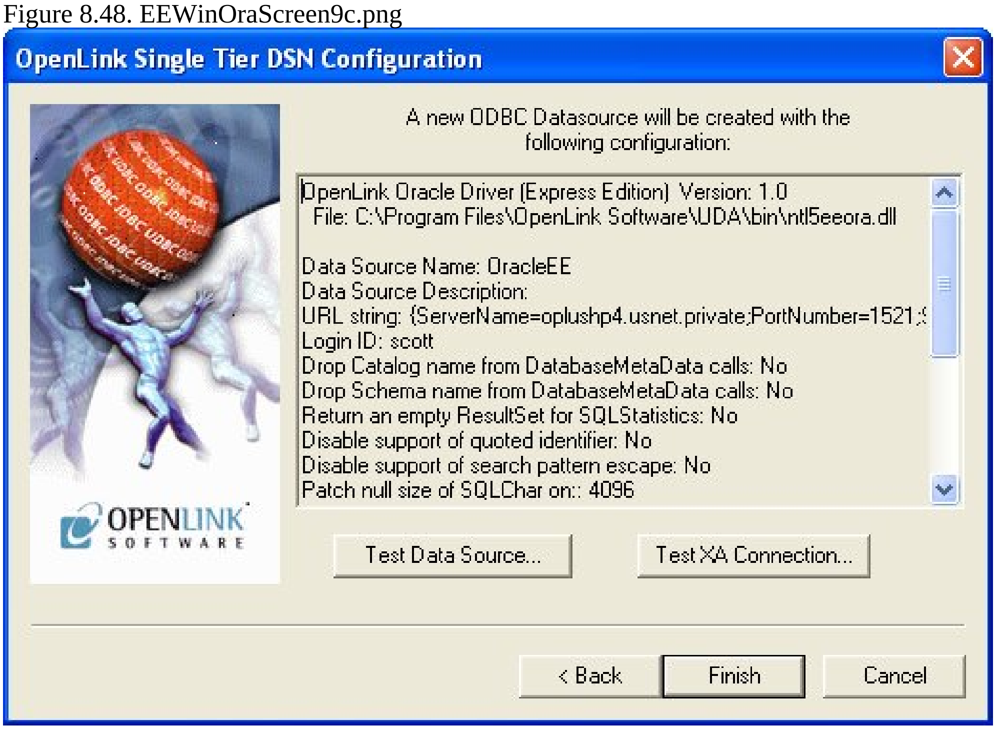
Additional connect compatibility parameters:

- □ Enable Microsoft Jet engine options
- □ Disable Autocommit
- □ Disable rowset size limit
- □ Multiple Active Statements Emulation

SQL_DBMS_NAME:

- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Lite Driver. The default mode is AutoCommit mode (box unchecked).
- *Disable rowset size limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the driver claiming all available memory in the event that a resultset generated from an erroneous query is very large. The limit is normally never reached.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application, even if the underlying database does not allow this, as it is emulated in the driver.
- *SQL_DBMS Name* - Manually override the SQLGetInfo(SQL_DBMS_NAME) response returned by the driver. This is required for products like Microsoft InfoPath for which the return the value must be "SQL Server".

Figure 8.48. EEWinOraScreen9c.png

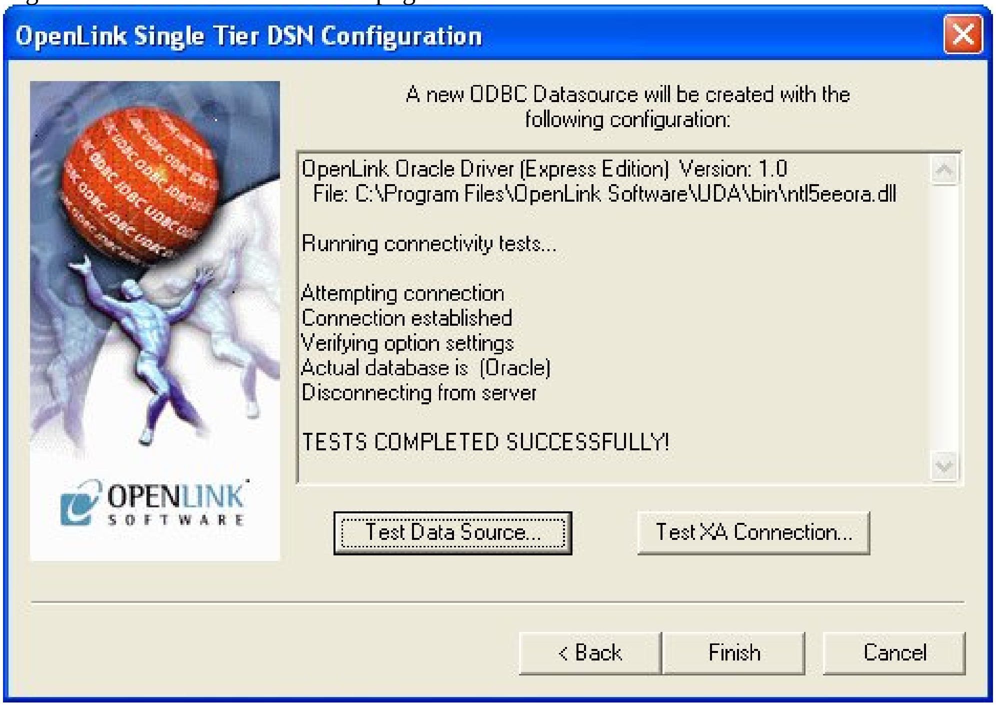


A new ODBC Datasource will be created with the following configuration:

```
OpenLink Oracle Driver (Express Edition)  Version: 1.0
  File: C:\Program Files\OpenLink Software\UDA\bin\ntl5eeora.dll

Data Source Name: OracleEE
Data Source Description:
URL string: {ServerName=oplushp4.usnet.private;PortNumber=1521;S
Login ID: scott
Drop Catalog name from DatabaseMetaData calls: No
Drop Schema name from DatabaseMetaData calls: No
Return an empty ResultSet for SQLStatistics: No
Disable support of quoted identifier: No
Disable support of search pattern escape: No
Patch null size of SQLChar on:: 4096
```

Click on the *Test Data Source* button to verify that a successful connection can be made to the database.

Figure 8.49. EEWinOraScreen10c.png

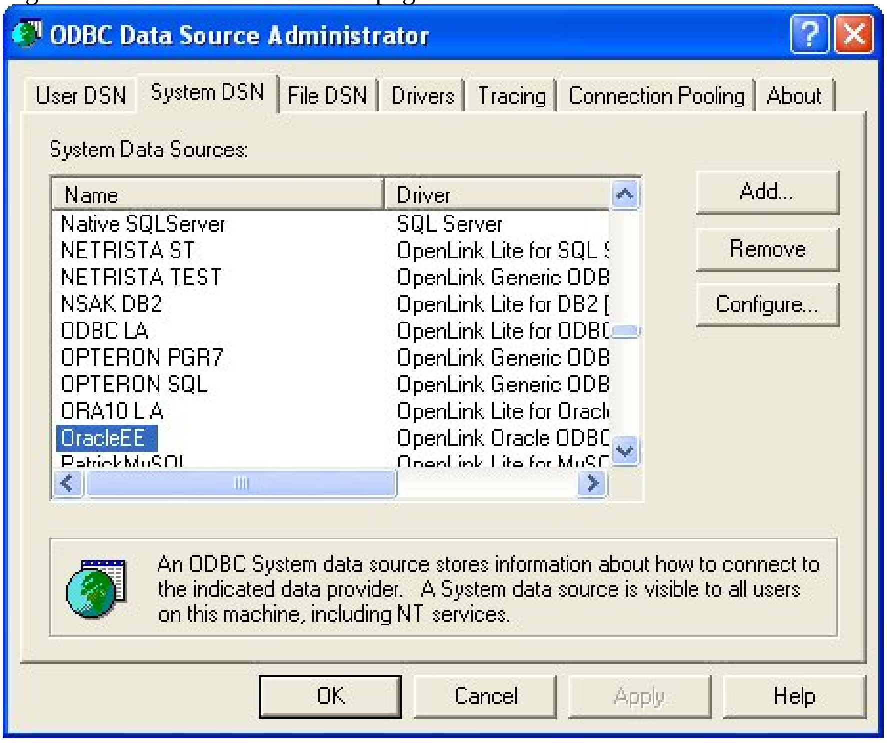


A new ODBC Datasource will be created with the following configuration:

```
OpenLink Oracle Driver (Express Edition)  Version: 1.0
  File: C:\Program Files\OpenLink Software\UDA\bin\ntl5eeora.dll

Running connectivity tests...

Attempting connection
Connection established
Verifying option settings
Actual database is  (Oracle)
Disconnecting from server

TESTS COMPLETED SUCCESSFULLY!
```

When you click finish, you will go back to the ODBCData Source Administrator, and you should see the new DSN in the list of available DSN's:

Figure 8.50. EEWinOraScreen11c.png



System Data Sources:

Name	Driver
Native SQLServer	SQL Server
NETRISTA ST	OpenLink Lite for SQL S
NETRISTA TEST	OpenLink Generic ODB
NSAK DB2	OpenLink Lite for DB2 [
ODBC LA	OpenLink Lite for ODBC
OPTERON PGR7	OpenLink Generic ODB
OPTERON SQL	OpenLink Generic ODB
ORA10 L A	OpenLink Lite for Oracl
OracleEE	OpenLink Oracle ODBC
PatrickMySQL	OpenLink Lite for MySC

An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users on this machine, including NT services.

10 Chapter 9. OpenLink ODBC Driver for PostgreSQL (Express Edition)

Table of Contents

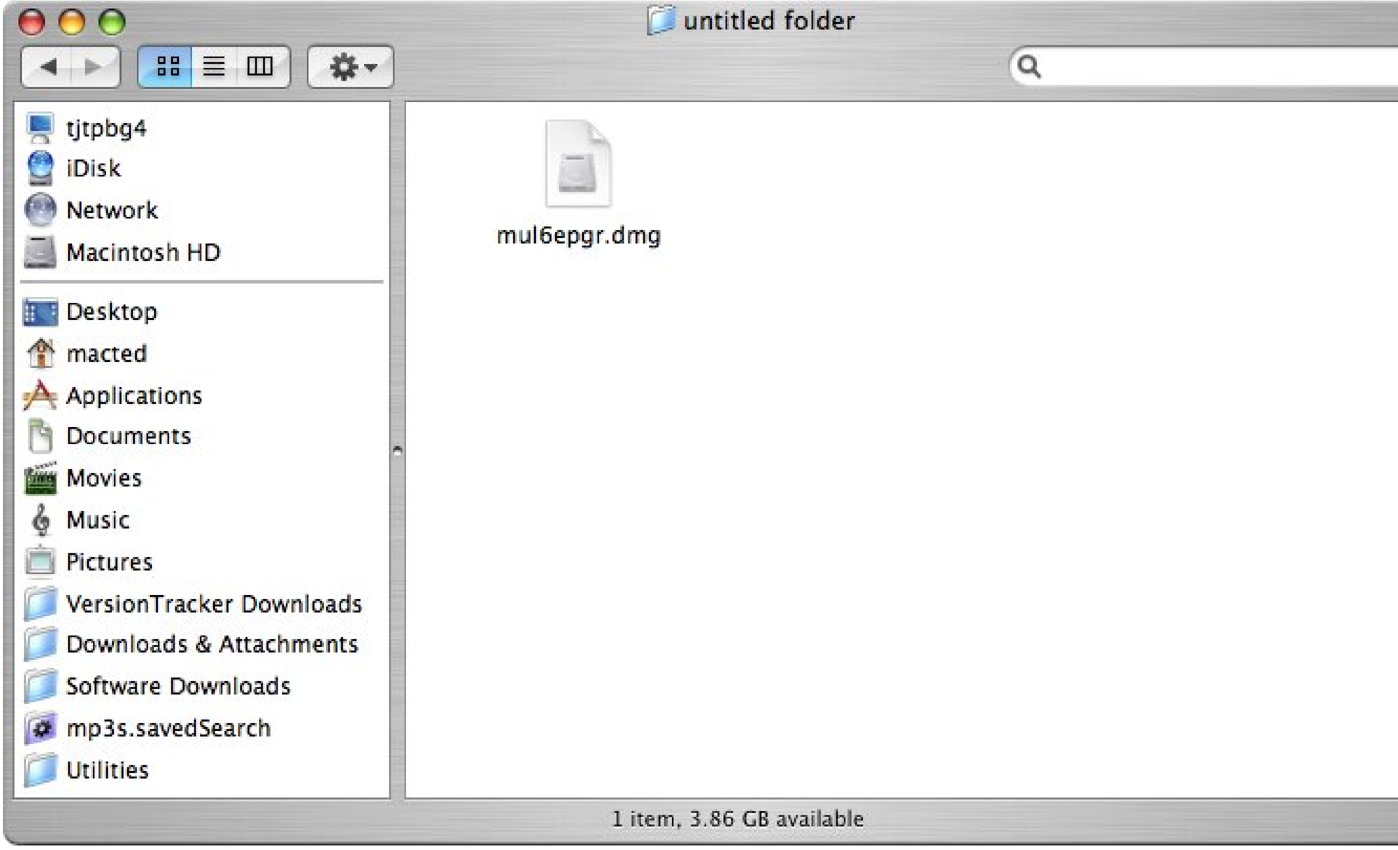
- OpenLink ODBC Driver for PostgreSQL (Express Edition) for Mac OS X
    - Installation Guide
    - Configuration
- OpenLink ODBC Driver for PostgreSQL (Express Edition) for Windows
    - Installation
    - Configuration

10.1 OpenLink ODBC Driver for PostgreSQL (Express Edition) for Mac OS X

10.1.1 Installation Guide

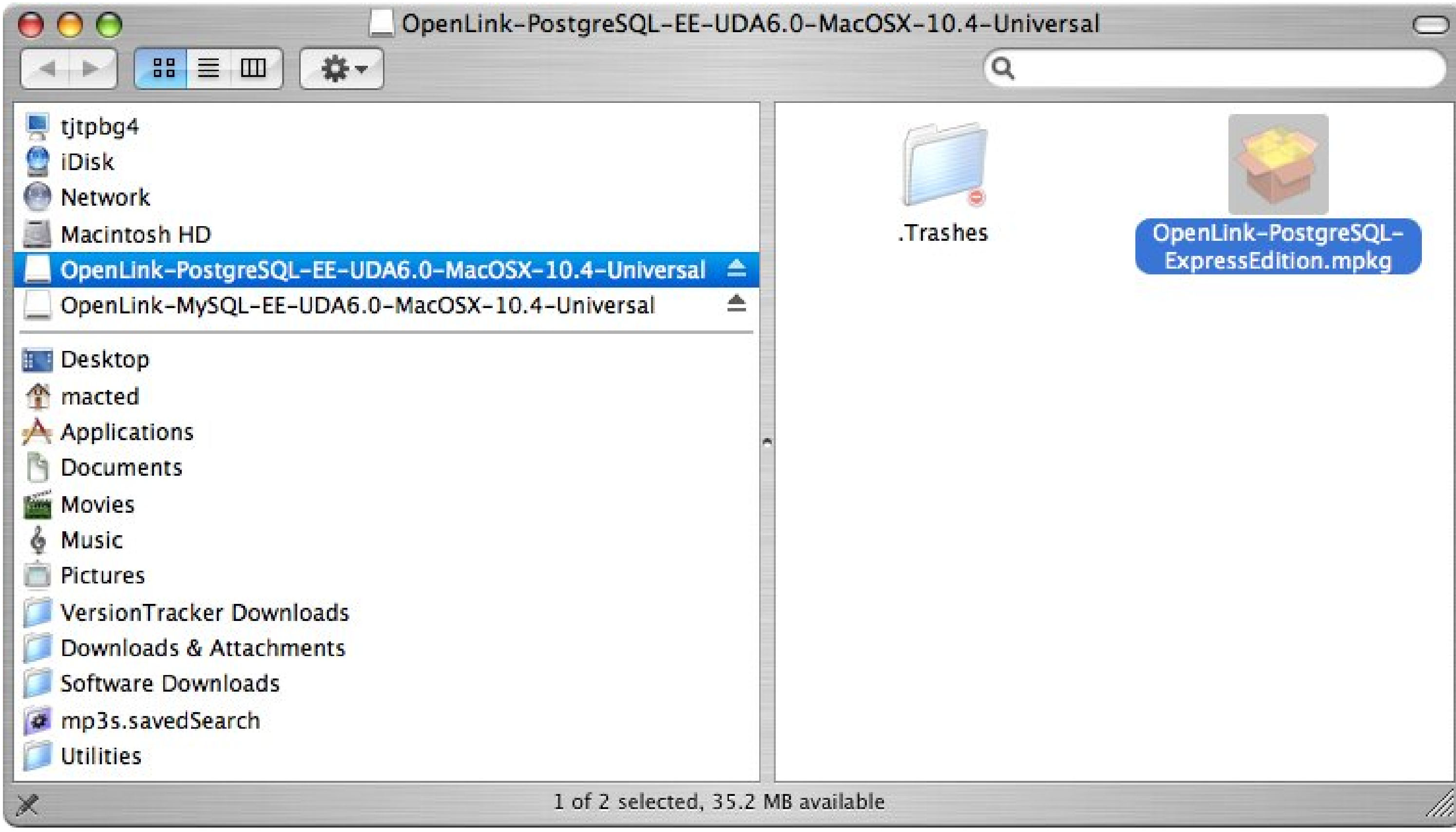
The OpenLink ODBC Driver for PostgreSQL (Express Edition) is distributed as a Disk image (DMG) file. Simply double click on the disk image 'mul6epgr.dmg' to extract the installer mpkg file:

Figure 9.1. ee-pgr-00.png



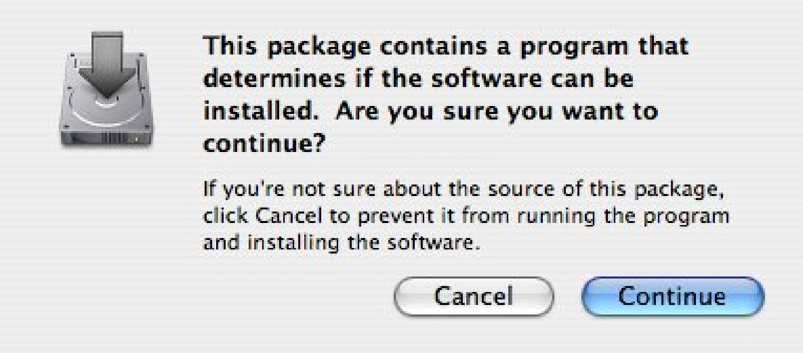
Double-click on the mpkg file to run the installer. Follow the on-screen instructions as indicated below to complete the installation:

Figure 9.2. ee-pgr-01.png


OpenLink-PostgreSQL-EE-UDA6.0-MacOSX-10.4-Universal
tjtpbg4
iDisk
Network
Macintosh HD
OpenLink-PostgreSQL-EE-UDA6.0-MacOSX-10.4-Universal
OpenLink-MySQL-EE-UDA6.0-MacOSX-10.4-Universal
Desktop
macted
Applications
Documents
Movies
Music
Pictures
VersionTracker Downloads
Downloads & Attachments
Software Downloads
mp3s.savedSearch
Utilities
.Trashes
OpenLink-PostgreSQL-ExpressEdition.mpkg
1 of 2 selected, 35.2 MB available

When prompted, permit the verification script to run. This simply checks to see that you are running a version of Mac OS X later than 10.3.0:

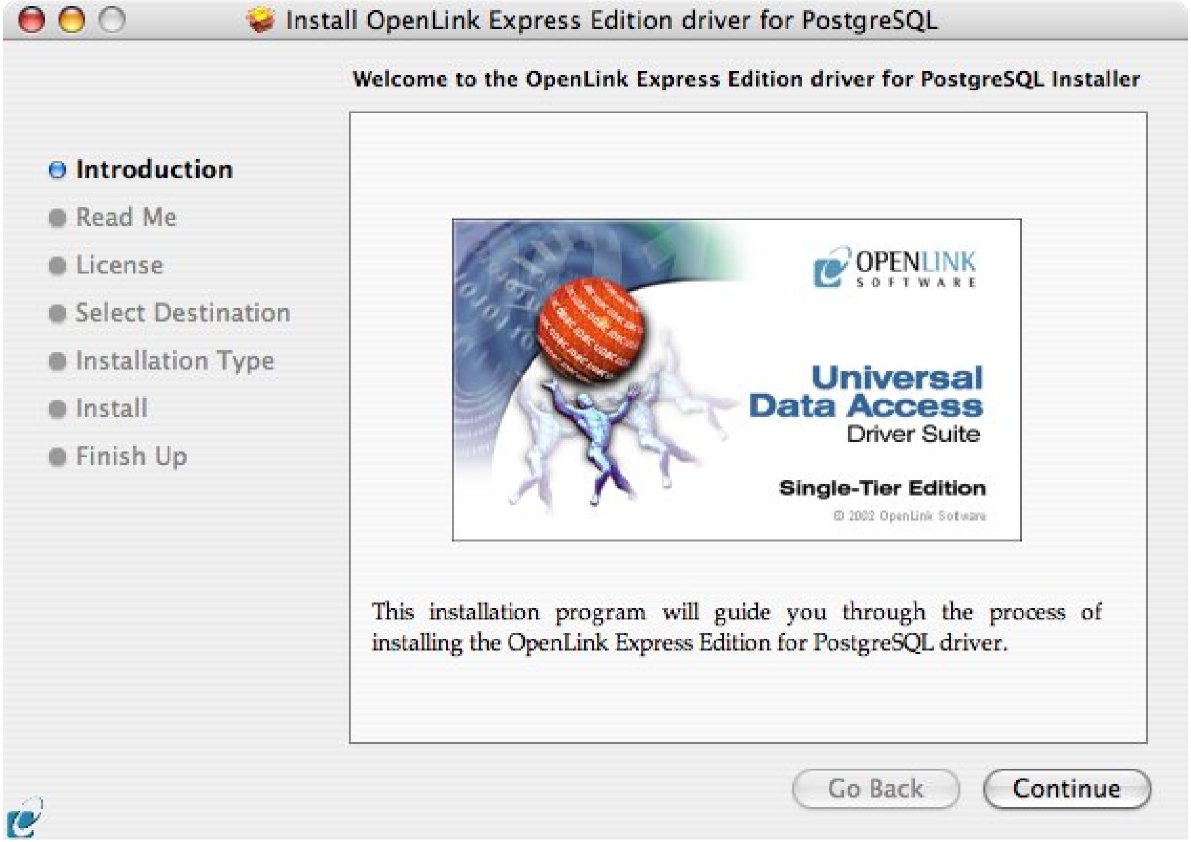
Figure 9.3. ee-pgr-02.png


This package contains a program that determines if the software can be installed. Are you sure you want to continue?

If you're not sure about the source of this package, click Cancel to prevent it from running the program and installing the software.

Review the *Welcome* message to confirm you're installing the right driver:

Figure 9.4. ee-pgr-03.png

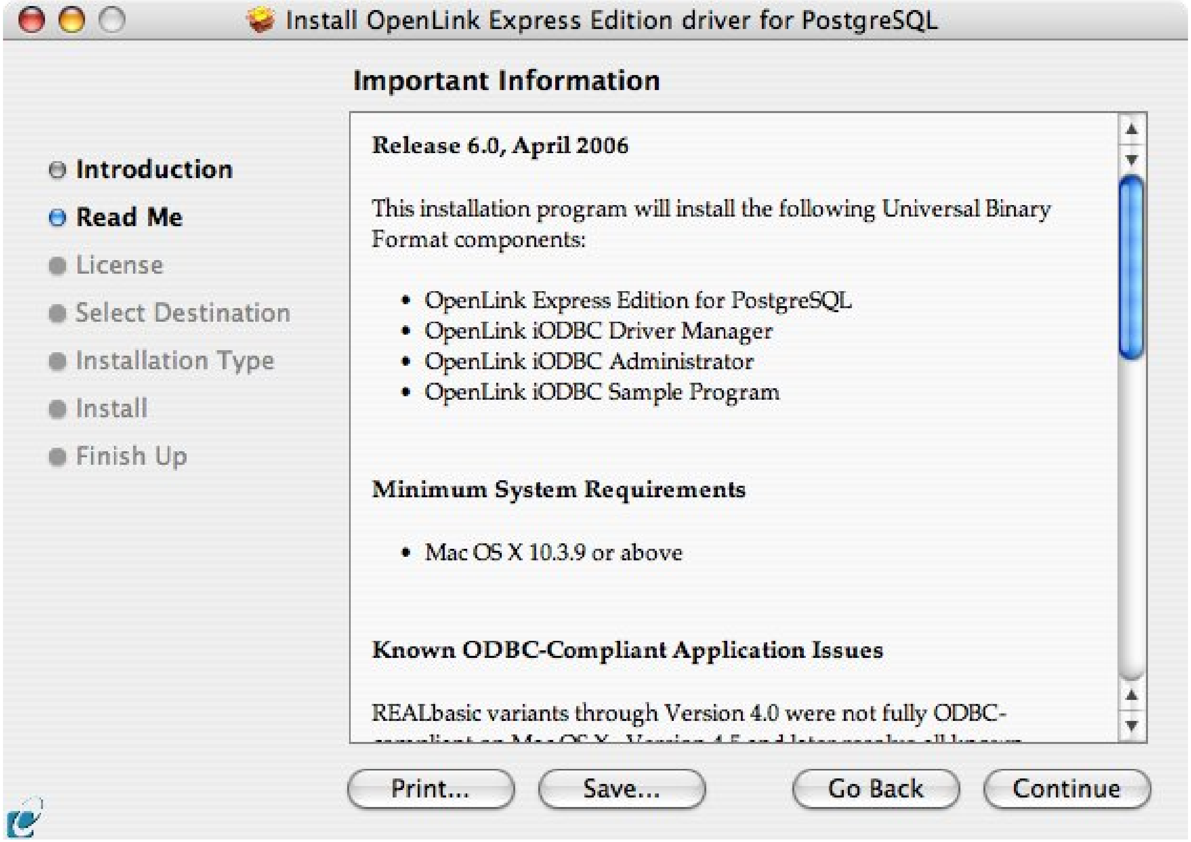


Welcome to the OpenLink Express Edition driver for PostgreSQL Installer

This installation program will guide you through the process of installing the OpenLink Express Edition for PostgreSQL driver.

Review the *ReadMe* for installation requirements and any known issues:

Figure 9.5. ee-pgr-04.png



Important Information

Release 6.0, April 2006

This installation program will install the following Universal Binary Format components:

- OpenLink Express Edition for PostgreSQL
- OpenLink iODBC Driver Manager
- OpenLink iODBC Administrator
- OpenLink iODBC Sample Program

Minimum System Requirements

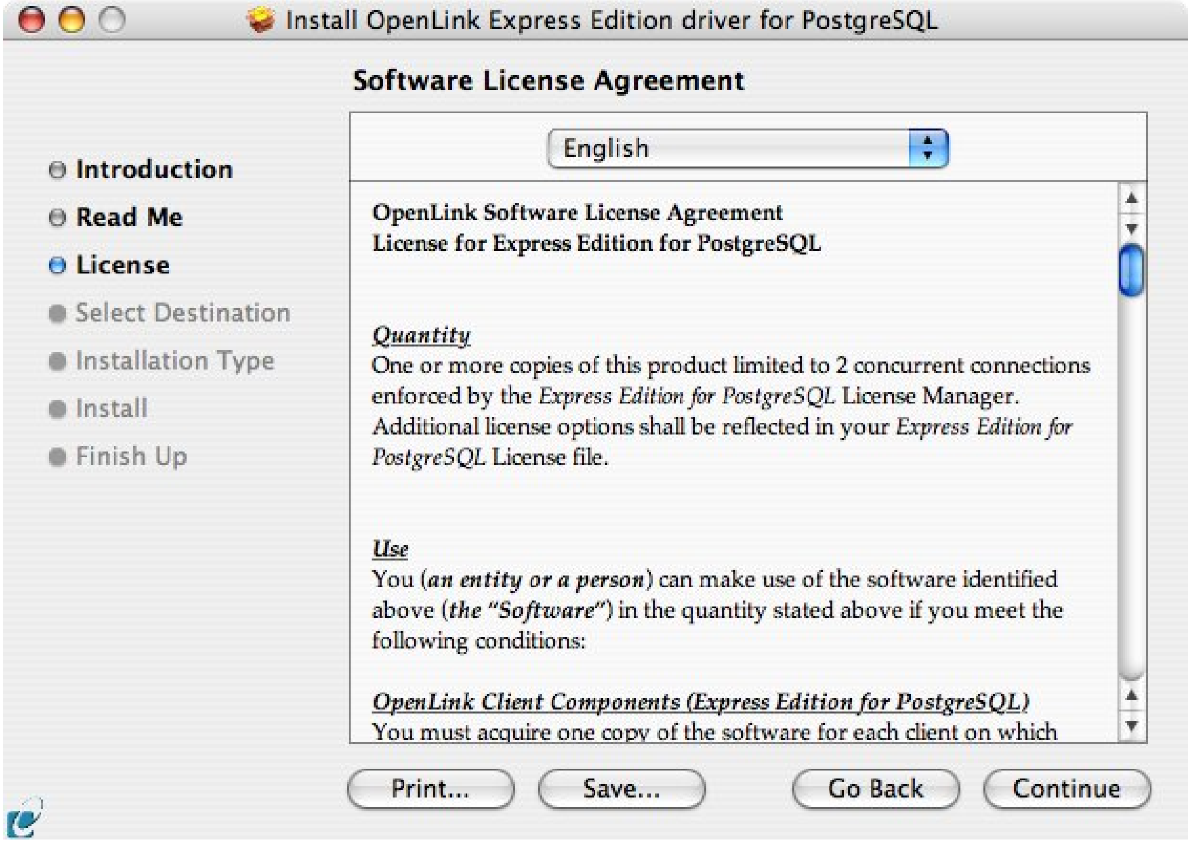
- Mac OS X 10.3.9 or above

Known ODBC-Compliant Application Issues

REALbasic variants through Version 4.0 were not fully ODBC-

Please read and agree to the *Software License Agreement* before continuing your installation:

Figure 9.6. ee-pgr-05.png



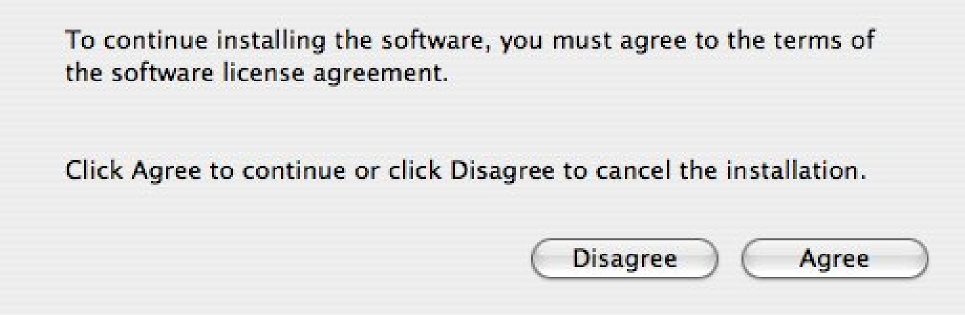
OpenLink Software License Agreement
License for Express Edition for PostgreSQL

Quantity
One or more copies of this product limited to 2 concurrent connections enforced by the *Express Edition for PostgreSQL* License Manager. Additional license options shall be reflected in your *Express Edition for PostgreSQL* License file.

Use
You (***an entity or a person***) can make use of the software identified above (***the "Software"***) in the quantity stated above if you meet the following conditions:

OpenLink Client Components (Express Edition for PostgreSQL)
You must acquire one copy of the software for each client on which

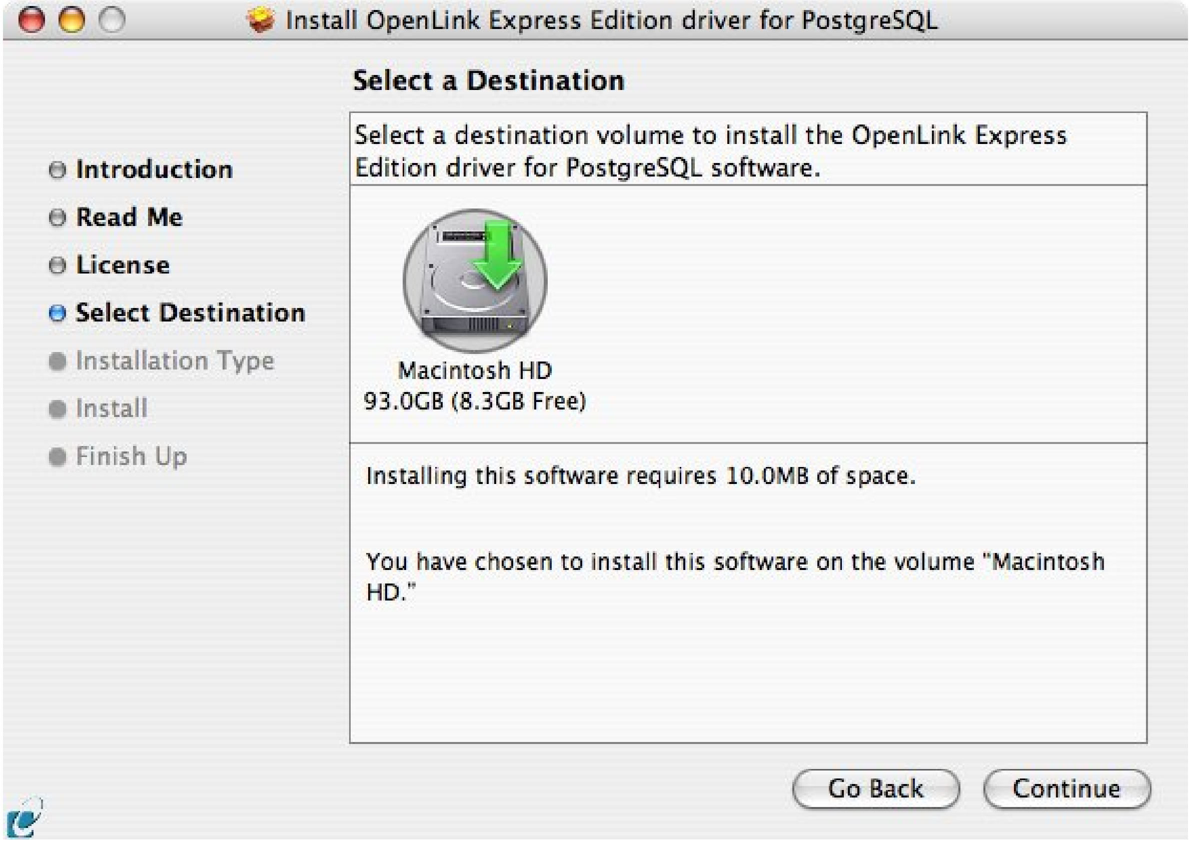
Figure 9.7. ee-pgr-06.png


To continue installing the software, you must agree to the terms of the software license agreement.

Click Agree to continue or click Disagree to cancel the installation.

Select the destination volume for driver installation:

Figure 9.8. ee-pgr-07.png



Select a Destination

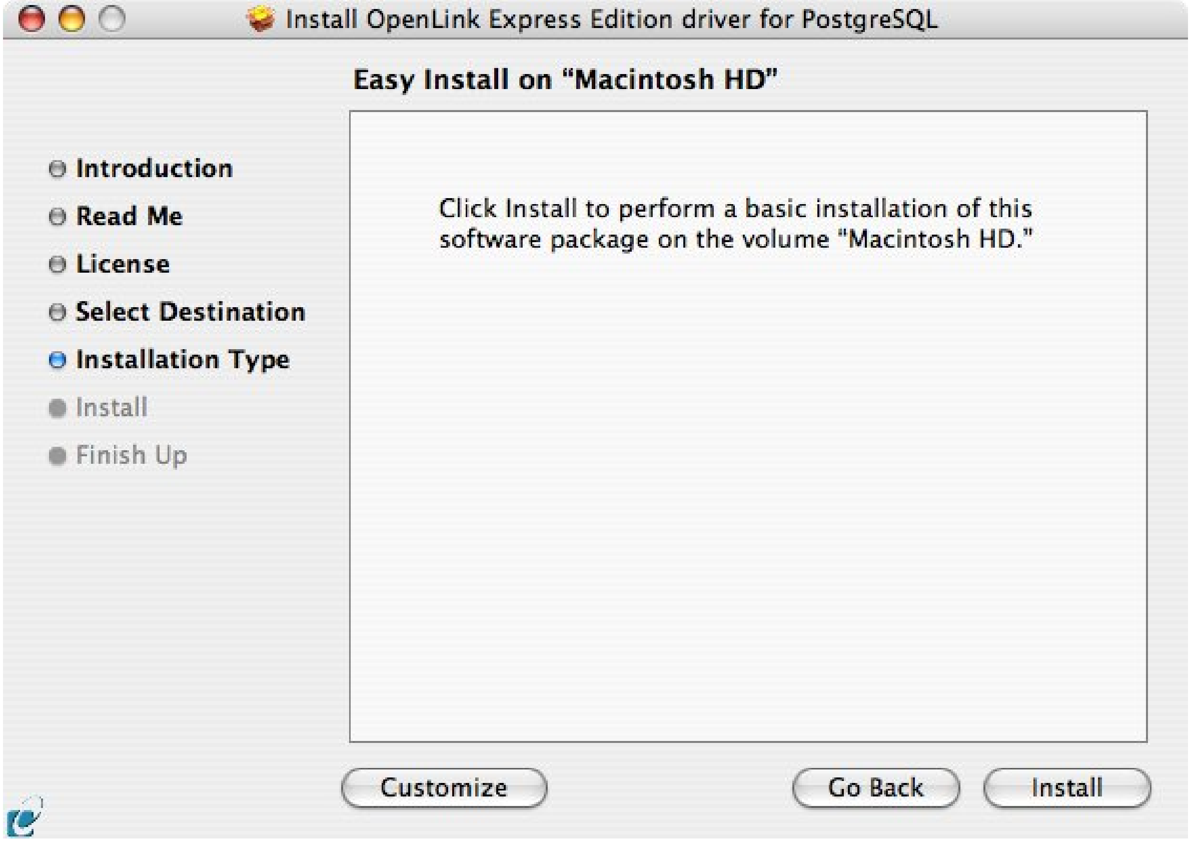
Select a destination volume to install the OpenLink Express Edition driver for PostgreSQL software.

Installing this software requires 10.0MB of space.

You have chosen to install this software on the volume "Macintosh HD."

Accept the default installation of the driver, or click *Customize* to select specific components for installation:

Figure 9.9. ee-pgr-08.png

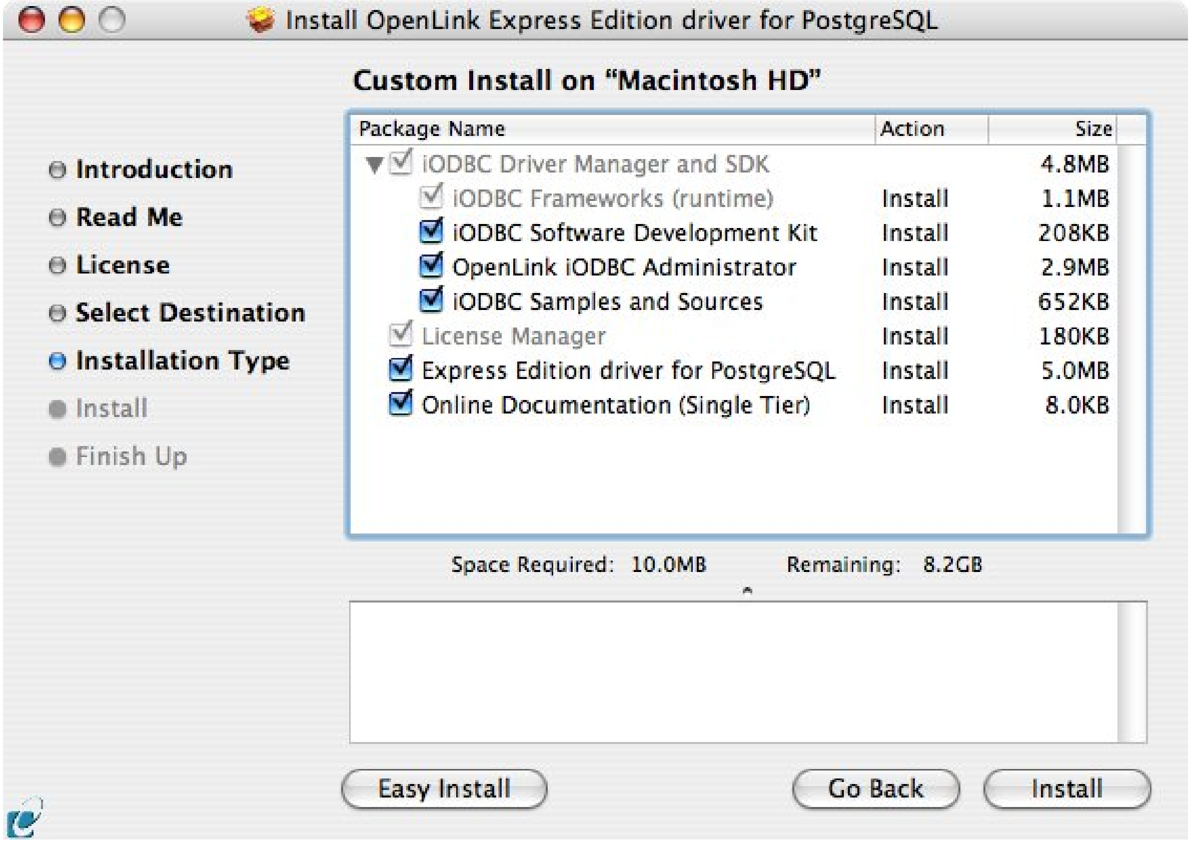


Easy Install on “Macintosh HD”

Click Install to perform a basic installation of this software package on the volume “Macintosh HD.”

Select the components to be installed, or click *Easy Install* to return to the default:

Figure 9.10. ee-pgr-09.png



Install OpenLink Express Edition driver for PostgreSQL

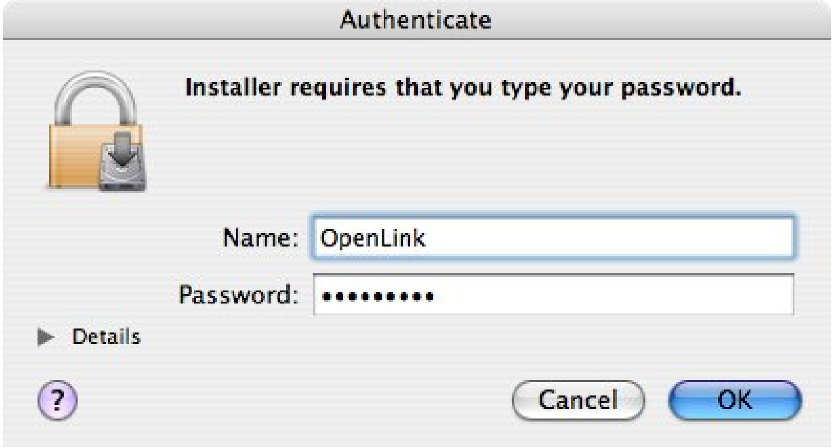
Custom Install on "Macintosh HD"

Package Name	Action	Size
▼ ☑ iODBC Driver Manager and SDK		4.8MB
☑ iODBC Frameworks (runtime)	Install	1.1MB
☑ iODBC Software Development Kit	Install	208KB
☑ OpenLink iODBC Administrator	Install	2.9MB
☑ iODBC Samples and Sources	Install	652KB
☑ License Manager	Install	180KB
☑ Express Edition driver for PostgreSQL	Install	5.0MB
☑ Online Documentation (Single Tier)	Install	8.0KB

Space Required: 10.0MB Remaining: 8.2GB

The Software must be installed as a user with Administrative privileges on the machine. When prompted, provide a relevant username and password:

Figure 9.11. ee-pgr-10.png



Authenticate

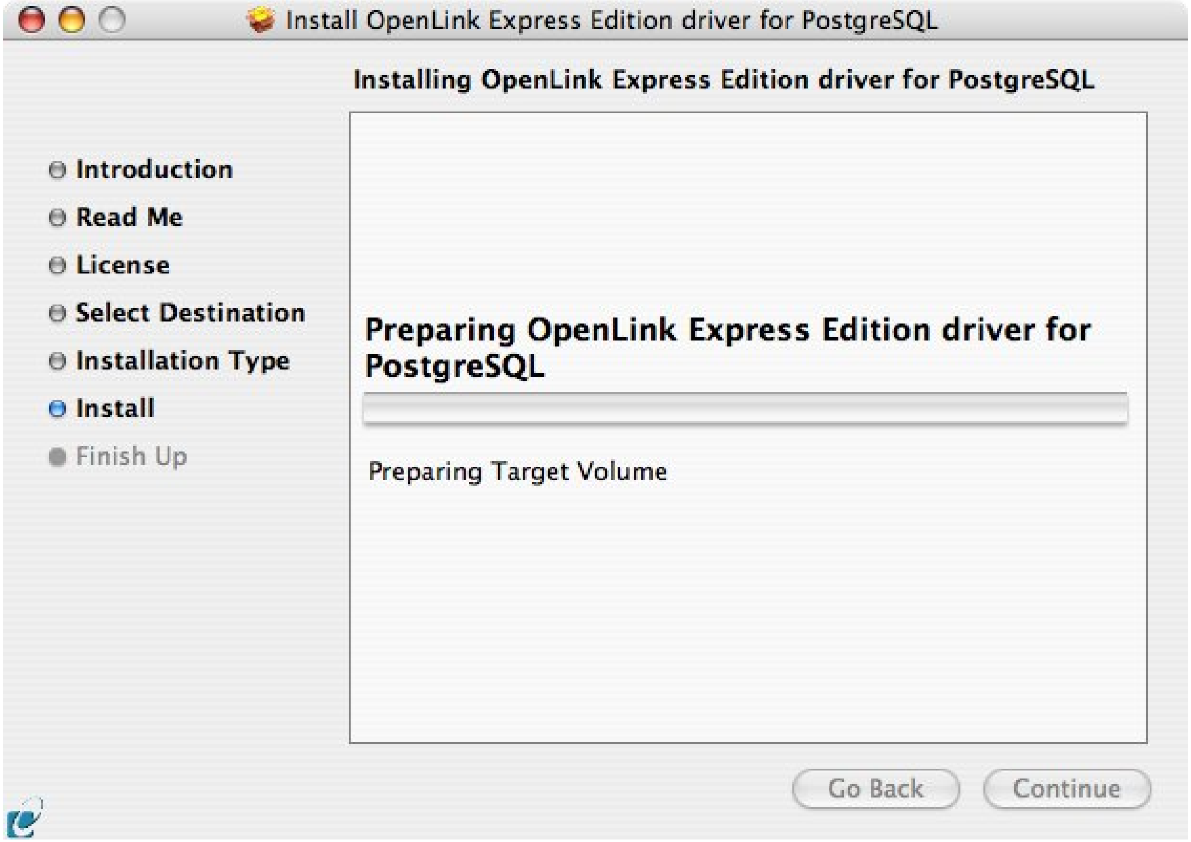
Installer requires that you type your password.

Name: OpenLink

Password: •••••••••

Installation will proceed.

Figure 9.12. ee-pgr-11.png

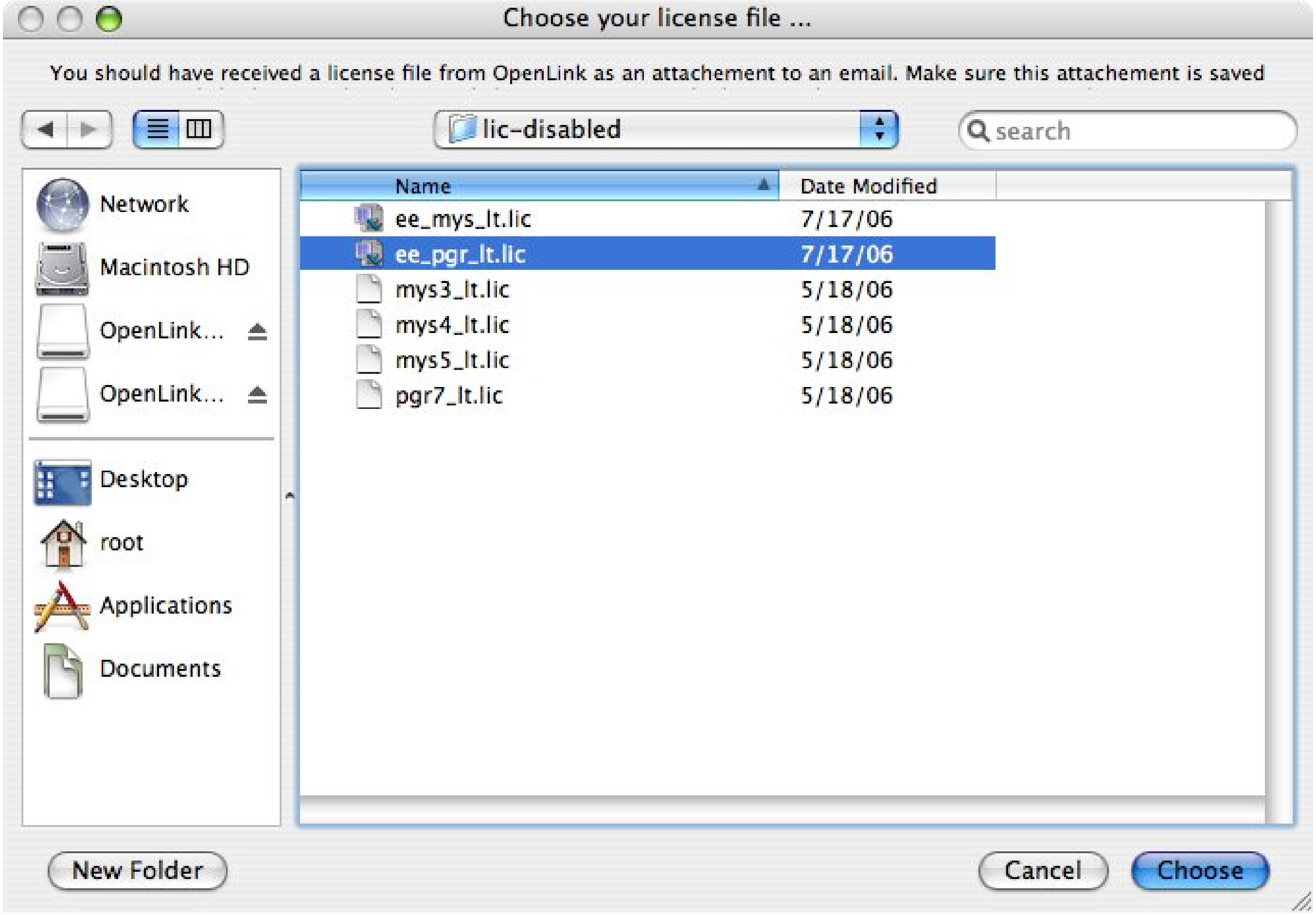

Install OpenLink Express Edition driver for PostgreSQL
Installing OpenLink Express Edition driver for PostgreSQL
Introduction
Read Me
License
Select Destination
Installation Type
Install
Finish Up
Go Back
Continue

Preparing OpenLink Express Edition driver for PostgreSQL

Preparing Target Volume

During installation, you will be prompted to select a license file for the driver. If such a license file already exists on the machine, then select the 'use existing file' option.

Figure 9.13. ee-pgr-15.png



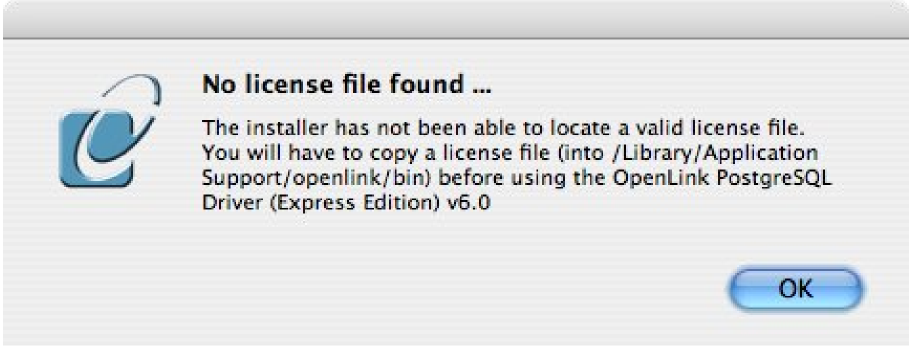
Choose your license file ...

You should have received a license file from OpenLink as an attachement to an email. Make sure this attachement is saved

Name	Date Modified
ee_mys_lt.lic	7/17/06
ee_pgr_lt.lic	7/17/06
mys3_lt.lic	5/18/06
mys4_lt.lic	5/18/06
mys5_lt.lic	5/18/06
pgr7_lt.lic	5/18/06

If you accidentally clicked this option, you can cancel out of the selection dialog. As the following alert will explain, you can manually apply the license file at any point in the future:

Figure 9.14. ee-pgr-16.png

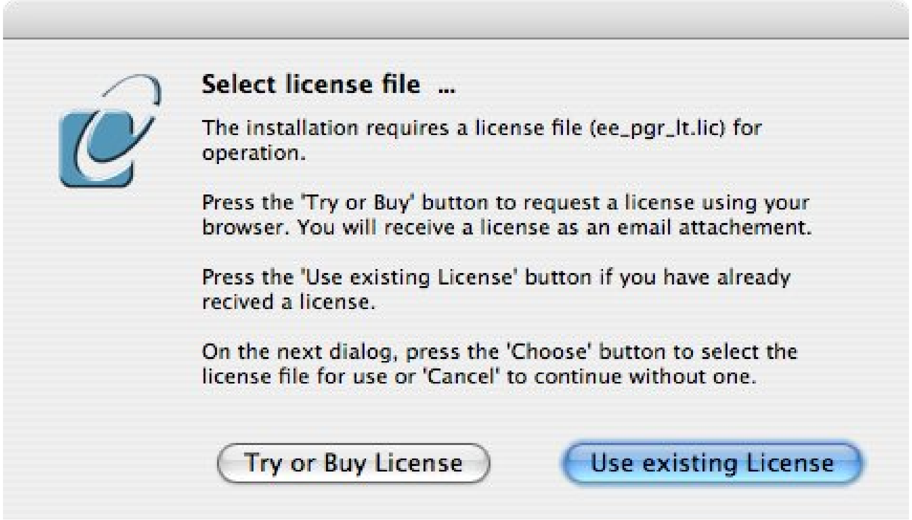


No license file found ...

The installer has not been able to locate a valid license file. You will have to copy a license file (into /Library/Application Support/openlink/bin) before using the OpenLink PostgreSQL Driver (Express Edition) v6.0

A trial or permanent license may be obtained by selecting the *Try and Buy* option which loads our online try and buy web page:

Figure 9.15. ee-pgr-12.png



Select license file ...

The installation requires a license file (ee_pgr_lt.lic) for operation.

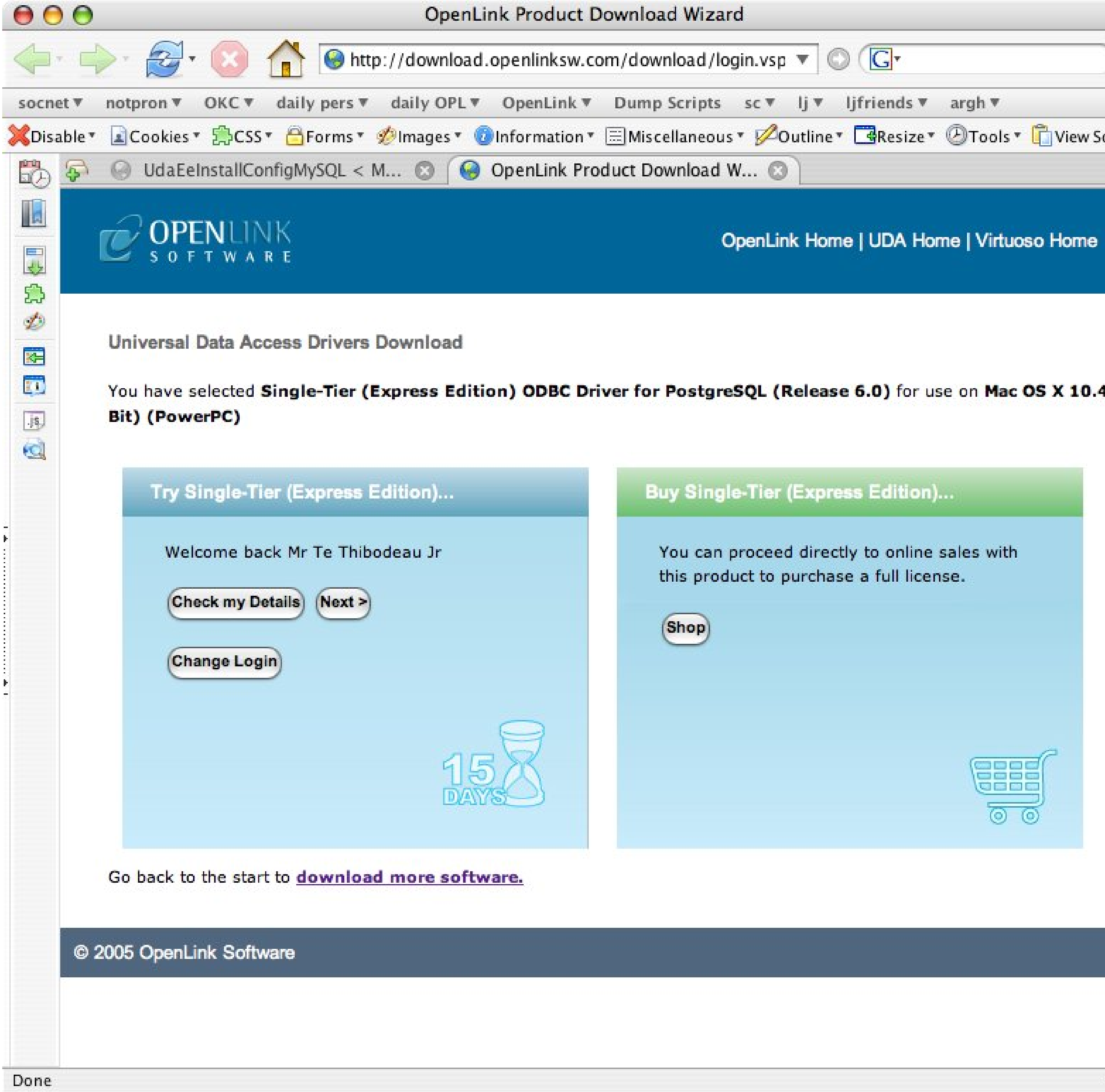
Press the 'Try or Buy' button to request a license using your browser. You will receive a license as an email attachement.

Press the 'Use existing License' button if you have already recived a license.

On the next dialog, press the 'Choose' button to select the license file for use or 'Cancel' to continue without one.

A permanent license may be obtained by clicking on the 'Shop' link to visit our online store, or you may obtain a trial license by registering with and logging in to the OpenLink Web site:

Figure 9.16. ee-pgr-13.png



OpenLink Product Download Wizard
http://download.openlinksw.com/download/login.vsp
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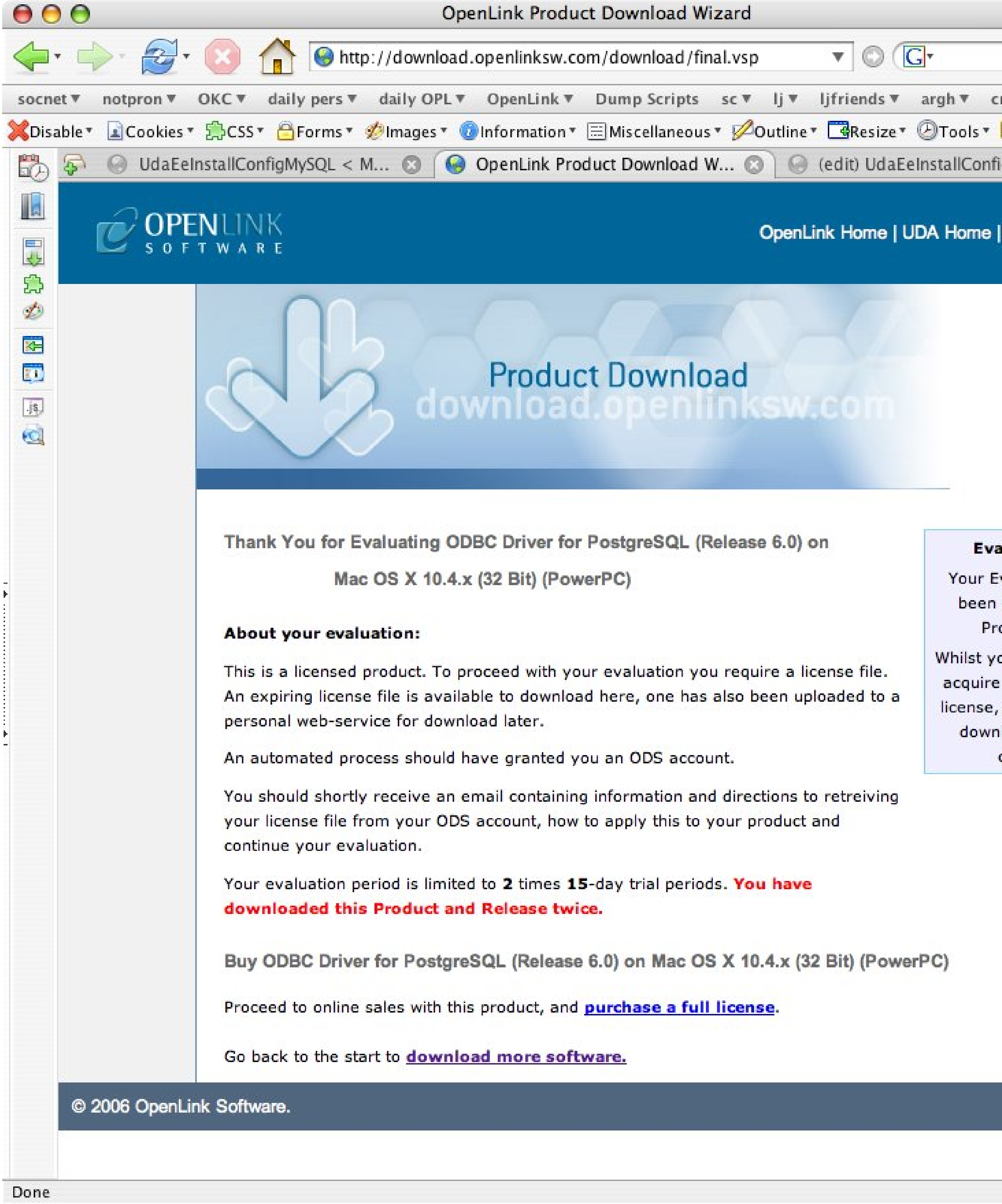
Figure 9.17. ee-pgr-14.png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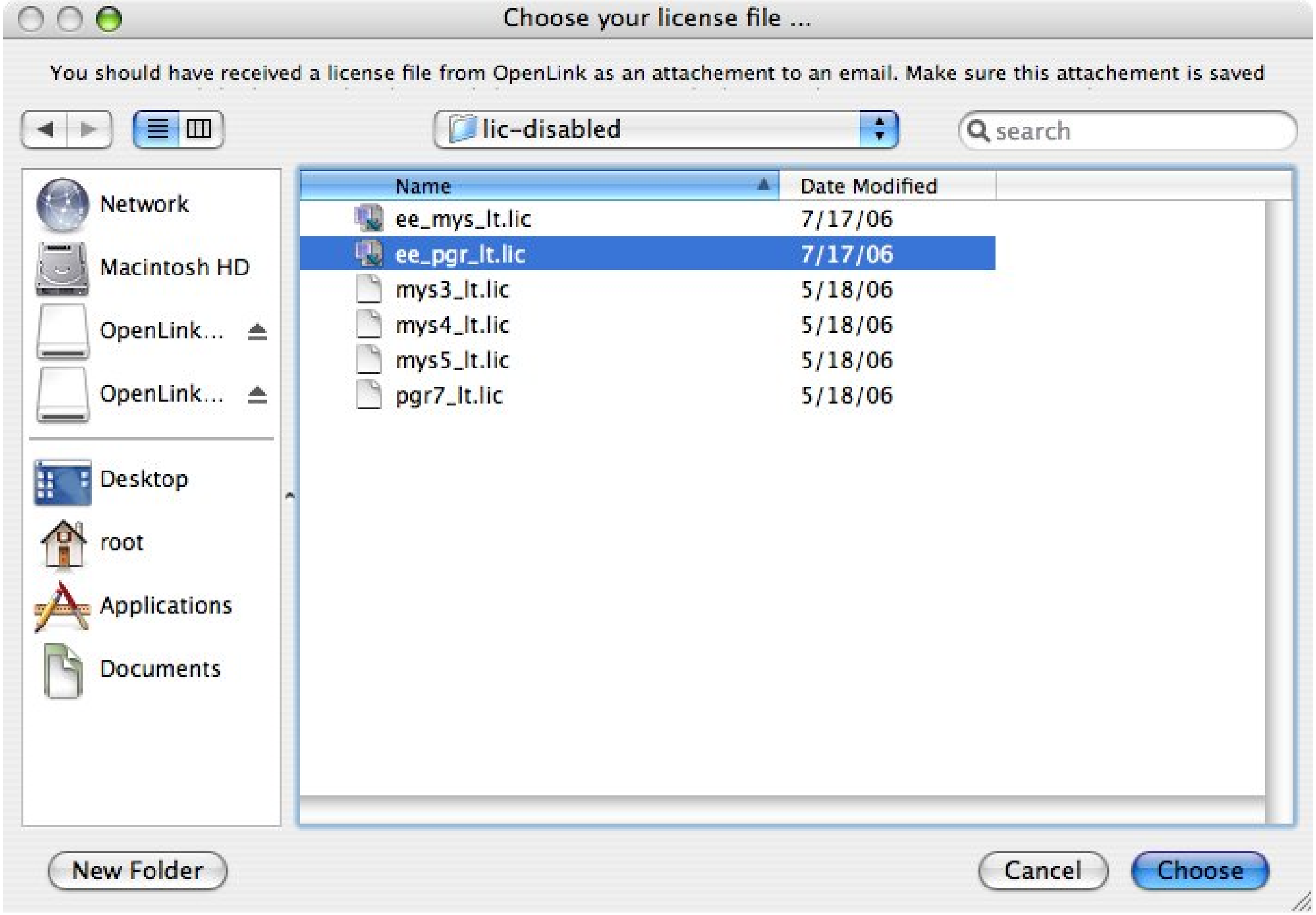
Close the browser, and proceed as if you had selected the option to *use existing file* . Select the license file to be used for the installation:

Figure 9.18. ee-pgr-15.png



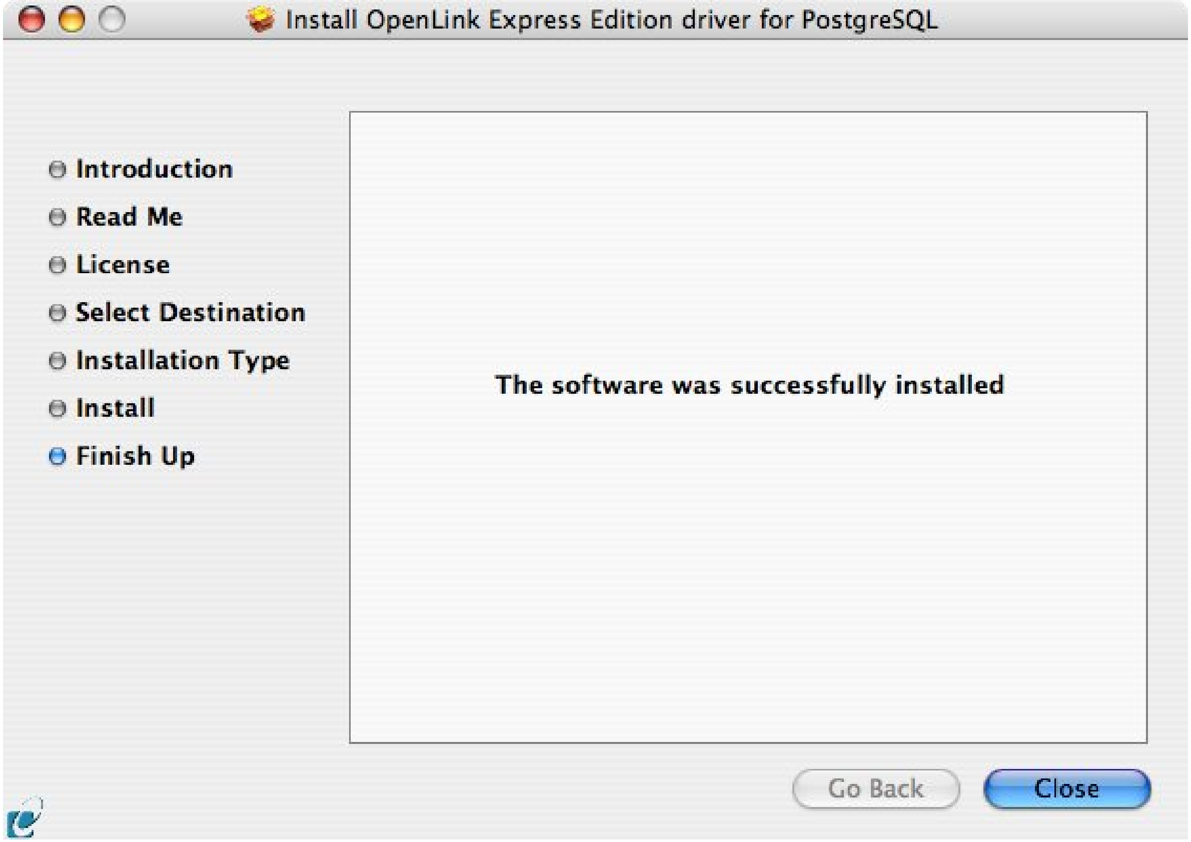
Choose your license file ...

You should have received a license file from OpenLink as an attachement to an email. Make sure this attachement is saved

Name	Date Modified
ee_mys_lt.lic	7/17/06
ee_pgr_lt.lic	7/17/06
mys3_lt.lic	5/18/06
mys4_lt.lic	5/18/06
mys5_lt.lic	5/18/06
pgr7_lt.lic	5/18/06

Installation is now complete, and you can exit the Installer and proceed to configure a DSN:

Figure 9.19. ee-pgr-17.png



Install OpenLink Express Edition driver for PostgreSQL

The software was successfully installed

10.1.2 Configuration

To configure an ODBC DSN, double-click the *OpenLink ODBC Administrator.app* located in /Applications/Utilities/, or the *iODBC Administrator.app* located in /Applications/iODBC/:

Figure 9.20. ee-pgr-18.png

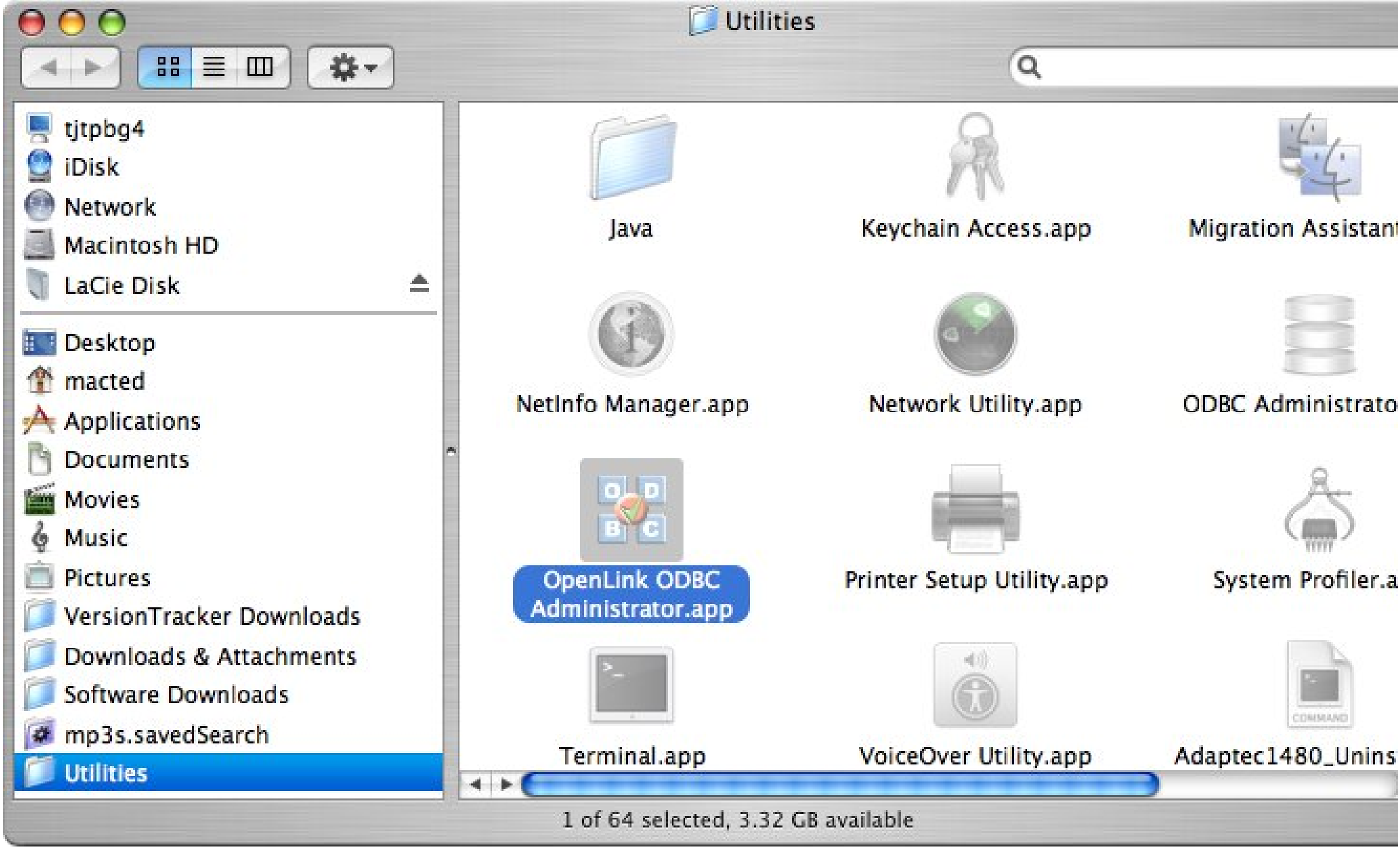
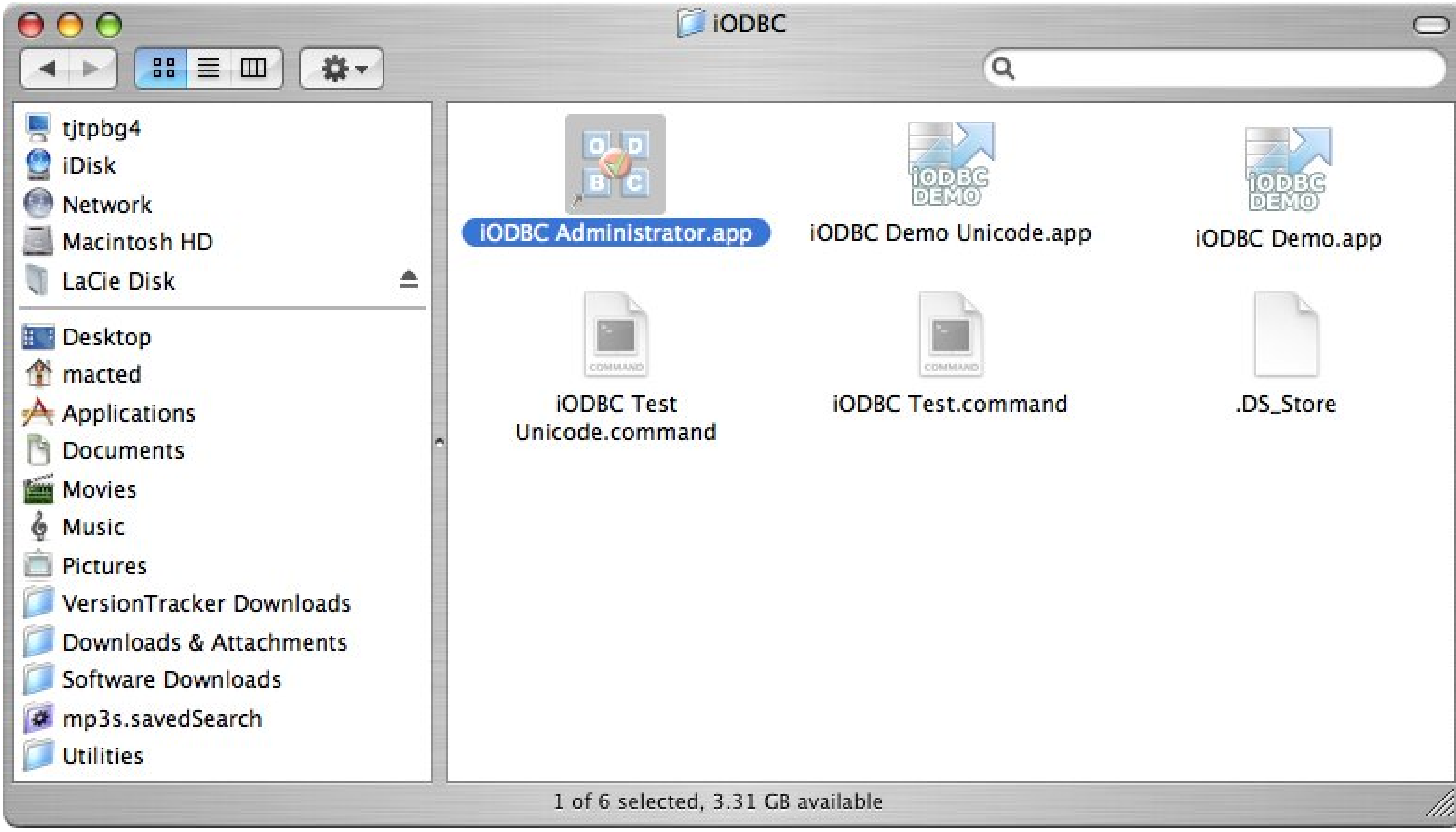
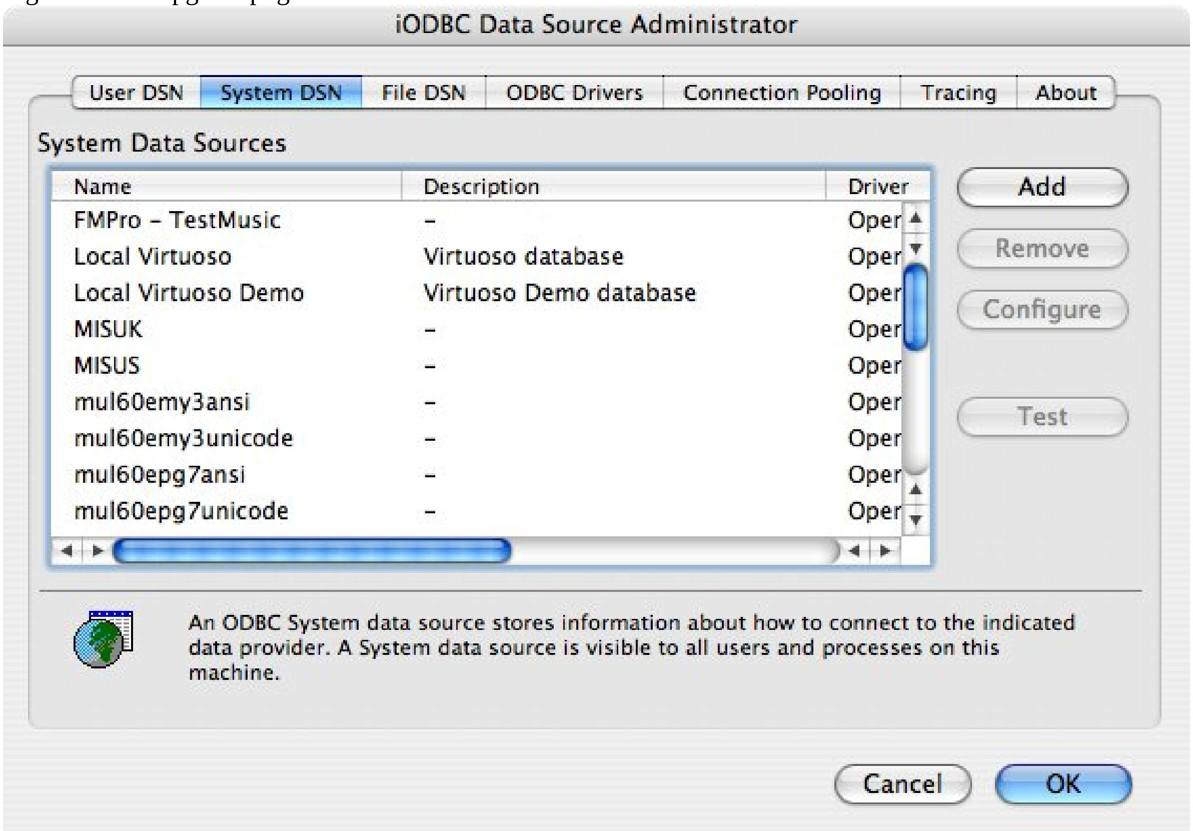


Figure 9.21. ee-pgr-19.png



Click on the *Add* button, to create a new DSN (Data Source Name):

Figure 9.22. ee-pgr-20.png



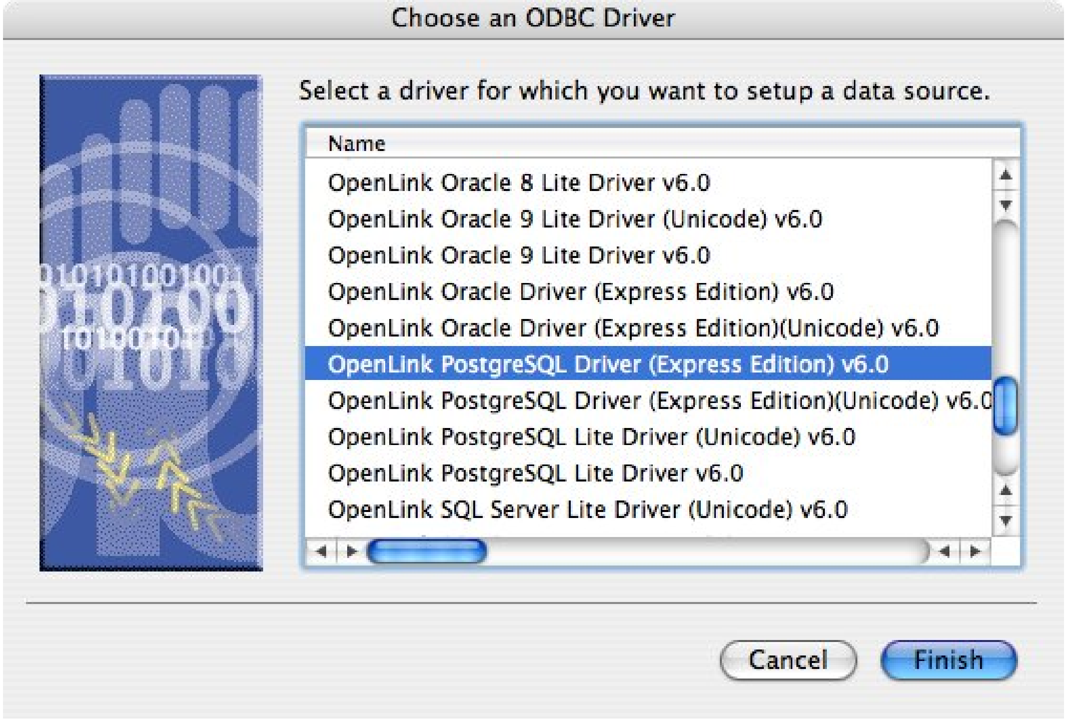
System Data Sources

Name	Description	Driver
FMPro – TestMusic	–	Oper
Local Virtuoso	Virtuoso database	Oper
Local Virtuoso Demo	Virtuoso Demo database	Oper
MISUK	–	Oper
MISUS	–	Oper
mul60emy3ansi	–	Oper
mul60emy3unicode	–	Oper
mul60epg7ansi	–	Oper
mul60epg7unicode	–	Oper

An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users and processes on this machine.

Choose the *OpenLink PostgreSQL Driver (Express Edition) v6.0* from the list of available drivers. Choose the *OpenLink PostgreSQL Driver (Express Edition)(Unicode) v6.0 if and only if* you are working with multi-byte character sets, as unnecessary translations can significantly ODBC performance:

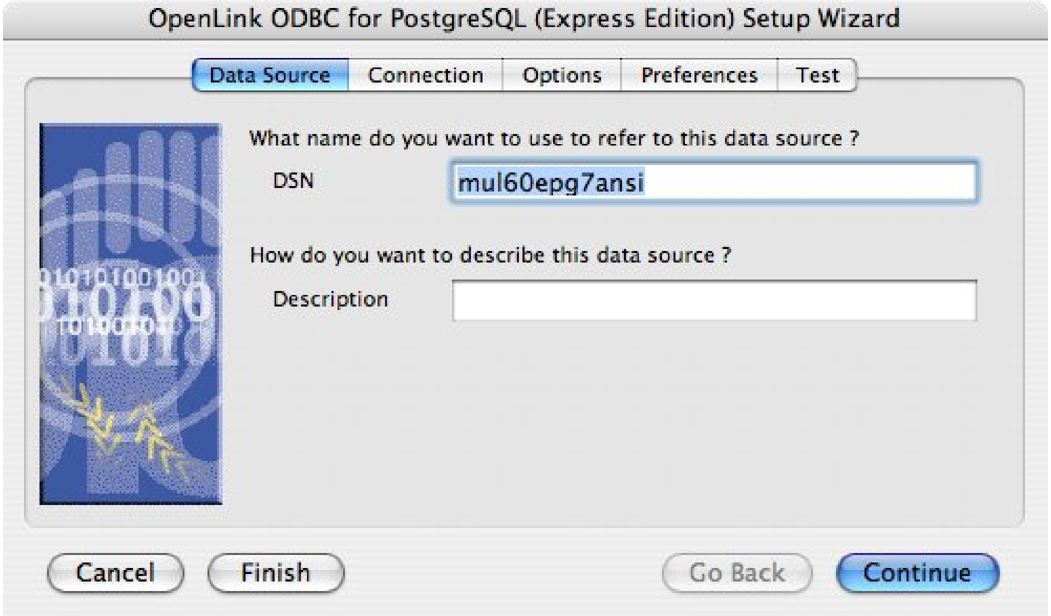
Figure 9.23. ee-pgr-21.png



Choose an ODBC Driver
Select a driver for which you want to setup a data source.
Name
OpenLink Oracle 8 Lite Driver v6.0
OpenLink Oracle 9 Lite Driver (Unicode) v6.0
OpenLink Oracle 9 Lite Driver v6.0
OpenLink Oracle Driver (Express Edition) v6.0
OpenLink Oracle Driver (Express Edition)(Unicode) v6.0
OpenLink PostgreSQL Driver (Express Edition) v6.0
OpenLink PostgreSQL Driver (Express Edition)(Unicode) v6.0
OpenLink PostgreSQL Lite Driver (Unicode) v6.0
OpenLink PostgreSQL Lite Driver v6.0
OpenLink SQL Server Lite Driver (Unicode) v6.0
Cancel
Finish

In the *Data Source* tab, enter a suitable name and optional description for the DSN being created:

Figure 9.24. ee-pgr-22.png



What name do you want to use to refer to this data source ?

DSN mul60epg7ansi

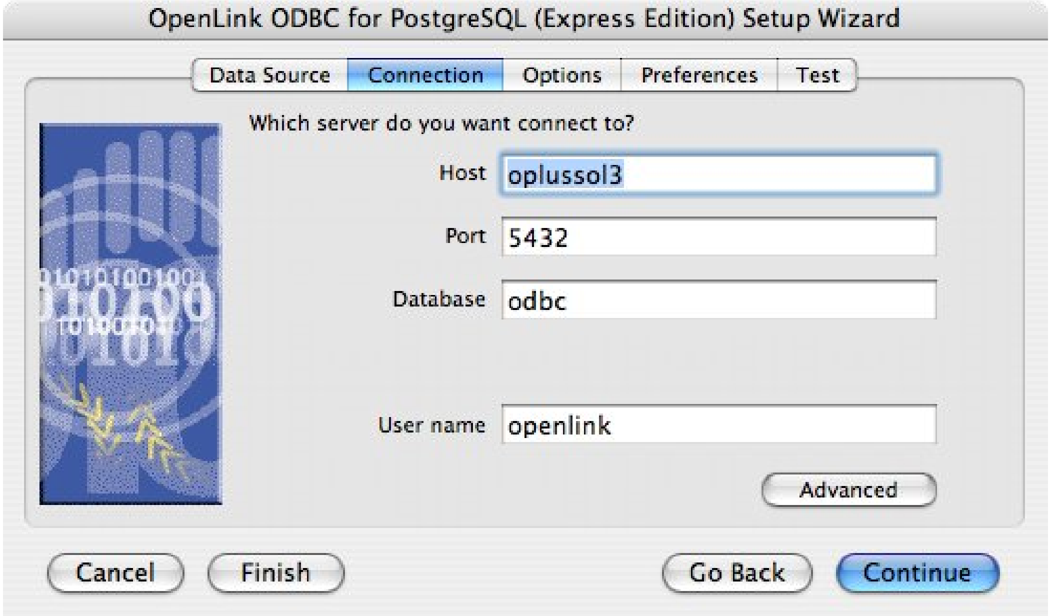
How do you want to describe this data source ?

Description

The *Connection* tab requests the minimum parameters required to make a connection to the target database:

- Host - the name of the server on which the target PostgreSQL instance is running
- Port - the port at which the target PostgreSQL instance is listening (default 5432)
- Database - the name of a valid database in the target PostgreSQL instance
- Username - a valid PostgreSQL username

Figure 9.25. ee-pgr-23.png



Which server do you want connect to?

Host: oplussol3

Port: 5432

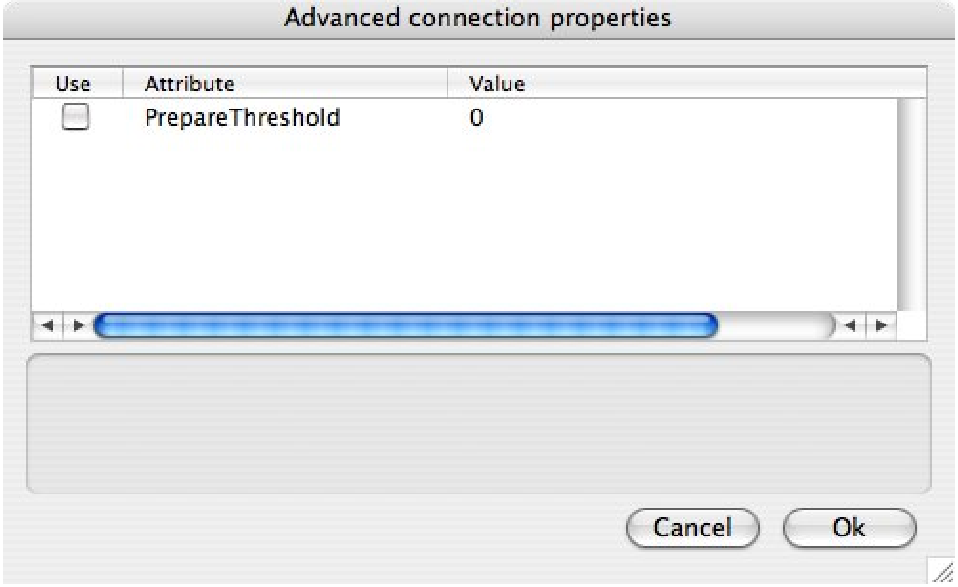
Database: odbc

User name: openlink

If desired, click the *Advanced* button to set additional parameters relevant to the PostgreSQL connection. None of these need be changed for a basic connection:

PrepareThreshold Sets the default threshold for enabling server-side prepare. Default 0

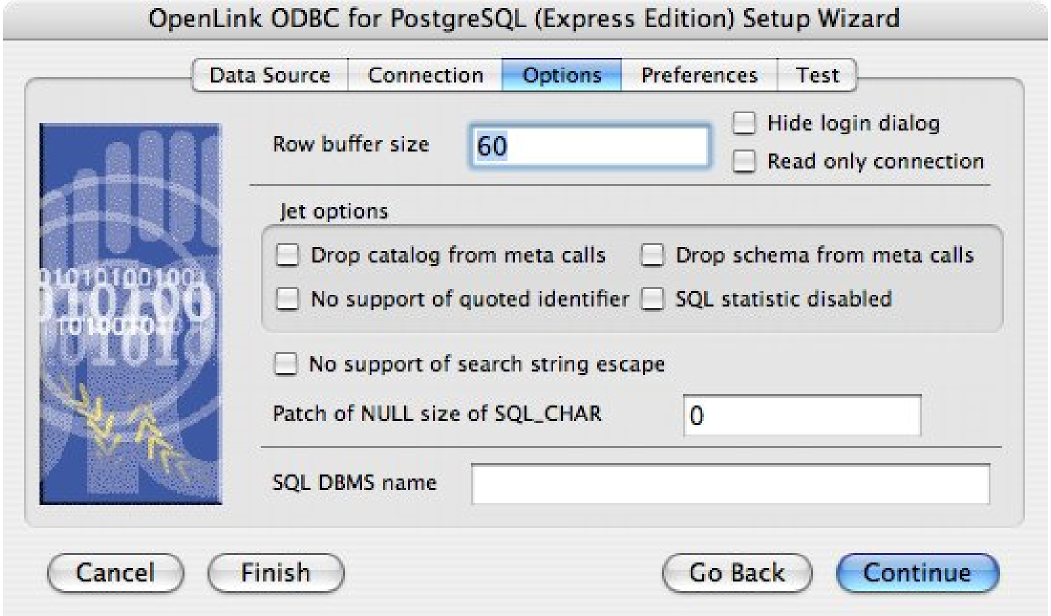
Figure 9.26. ee-pgr-24.png



Use	Attribute	Value
□	PrepareThreshold	0

As suggested above, the parameters of the *Options* and *Preferences* tabs need not be changed for a basic connection:

Figure 9.27. ee-pgr-25.png



Row buffer size: 60

□ Hide login dialog

□ Read only connection

Jet options

□ Drop catalog from meta calls

□ Drop schema from meta calls

□ No support of quoted identifier

□ SQL statistic disabled

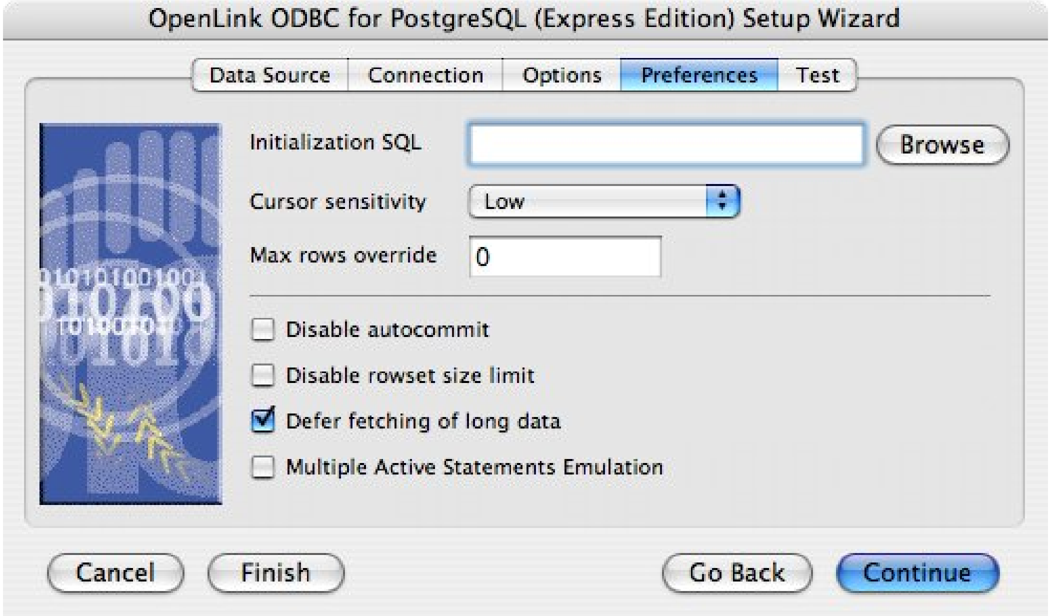
□ No support of search string escape

Patch of NULL size of SQL_CHAR: 0

SQL DBMS name:

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.
- *Hide Login Dialog* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC-compliant application.
- *Read Only connection* - Specify whether the connection is to be read-only. Make sure the checkbox is unchecked to request a read/write connection.
- *Drop Catalog from Meta calls* - Enable this option to have the catalog name not appear for tables, views and procedures when requesting database metadata.
- *Drop Schema from Meta calls* - Enable this option to have the schema-name not appear for tables, views and procedures when requesting database meta-data.
- *SQLStatistics disabled* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table (e.g. what indexes there are on it).
- *No support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if DBMS doesn't support quoted SQL such as select * from "account"
- *No support of search string escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if DBMS doesn't support SQL escape patterns
- *Patch of NULL size of SQL_CHAR* - If set this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0 the driver uses the size returned by the database.
- *SQL_DBMS Name* - Manually override the SQLGetInfo (SQL_DBMS_NAME) response returned by the driver. This is known to be required for products like Microsoft InfoPath for which the return the value should be "SQL Server".

Figure 9.28. ee-pgr-26.png



OpenLink ODBC for PostgreSQL (Express Edition) Setup Wizard

Initialization SQL

Cursor sensitivity: Low

Max rows override: 0

□ Disable autocommit

□ Disable rowset size limit

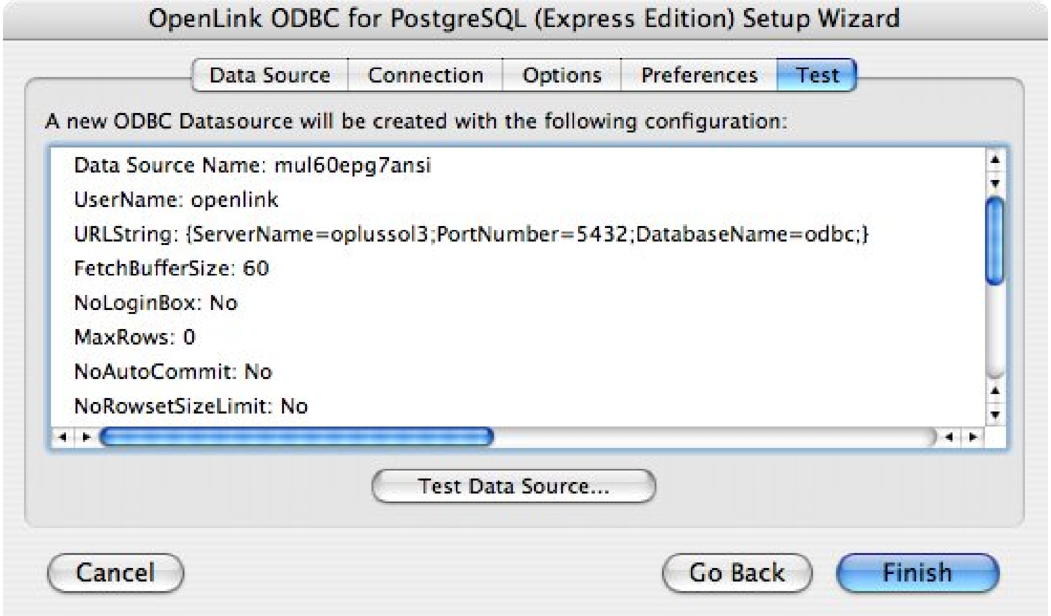
☑ Defer fetching of long data

□ Multiple Active Statements Emulation

- *Initialization SQL* - Lets you specify a file containing SQL statements that will be run against the database upon connection, automatically.
- *Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows don't appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate script for the target database.
- *MaxRows Override* - Allows you to define a limit on the maximum number of rows to returned from a query. The default value of 0 means no limit.
- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Lite Driver. The default mode is AutoCommit mode (box unchecked).
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset is generated from an erroneous query is very large. The limit is normally never reached.
- *Defer fetching of long data* - Defer fetching of LONG (BINARY, BLOB etc.) data unless explicitly requested in query. This provides significant performance increase when fields in query does not include LONG data fields.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Click on the *Test Data Source* button to make a connection to the database to verify connectivity:

Figure 9.29. ee-pgr-27.png

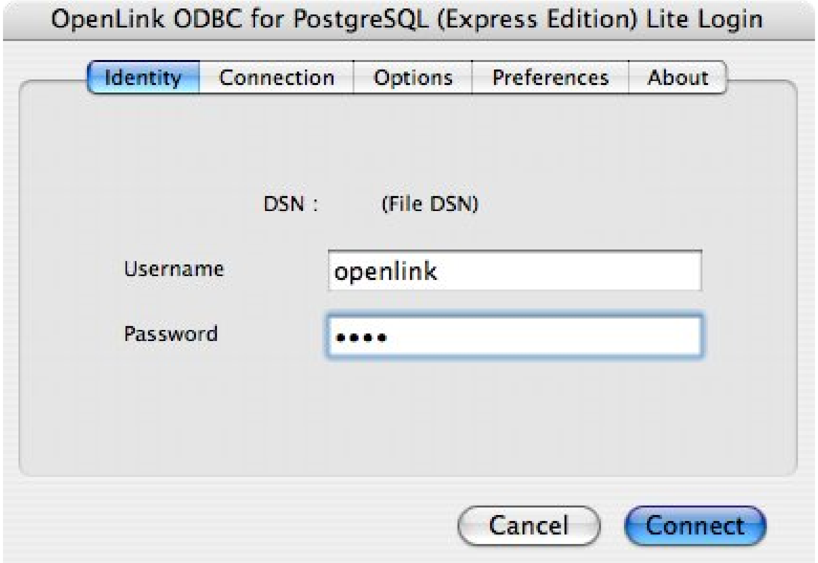


A new ODBC Datasource will be created with the following configuration:

Data Source Name: mul60epg7ansi
UserName: openlink
URLString: {ServerName=oplussol3;PortNumber=5432;DatabaseName=odbc;}
FetchBufferSize: 60
NoLoginBox: No
MaxRows: 0
NoAutoCommit: No
NoRowsetSizeLimit: No

Enter a valid username and password for the target database:

Figure 9.30. ee-pgr-28.png



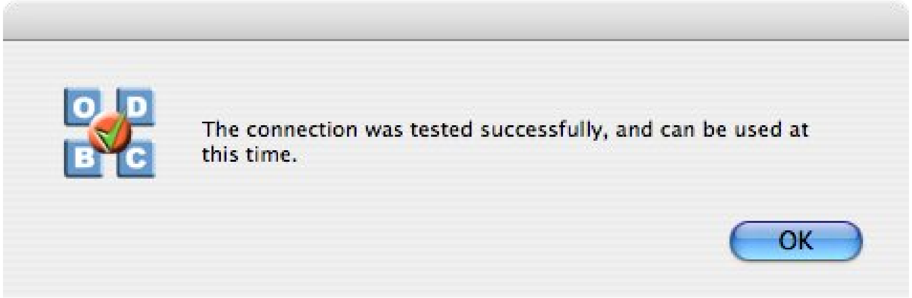
DSN : (File DSN)

Username openlink

Password ••••

A successful connection to the database has been made:

Figure 9.31. ee-pgr-29.png



The connection was tested successfully, and can be used at this time.

10.2 OpenLink ODBC Driver for PostgreSQL (Express Edition) for Windows

10.2.1 Installation

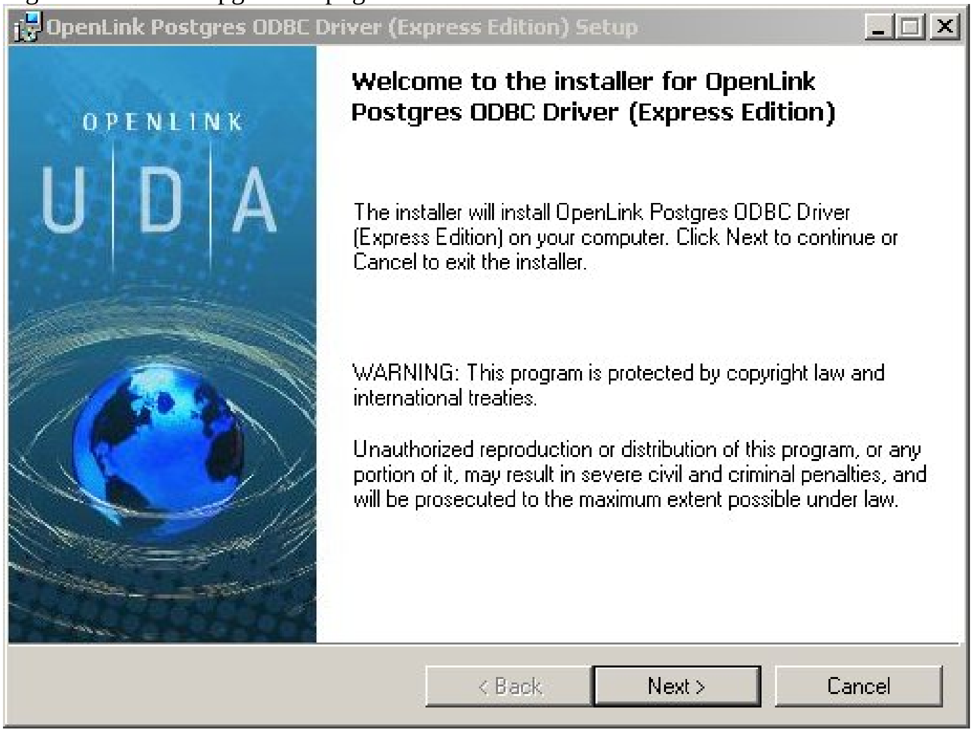
The OpenLink ODBCDriver for PostgreSQL(Express Edition) is distributed as a Windows MSI installer. Simply double click on the installer 'ntl6epgr.msi' to commence the installation:

Figure 9.32. EEWinpgrinst01.png

ntl6epgr
Windows Installer Package
2,124 KB

Installer Welcome Dialog for the OpenLink ODBCDriver for PostgreSQL(Express Edition):

Figure 9.33. EEWinpgrinst02.png



OpenLink Postgres ODBC Driver (Express Edition) Setup

Welcome to the installer for OpenLink Postgres ODBC Driver (Express Edition)

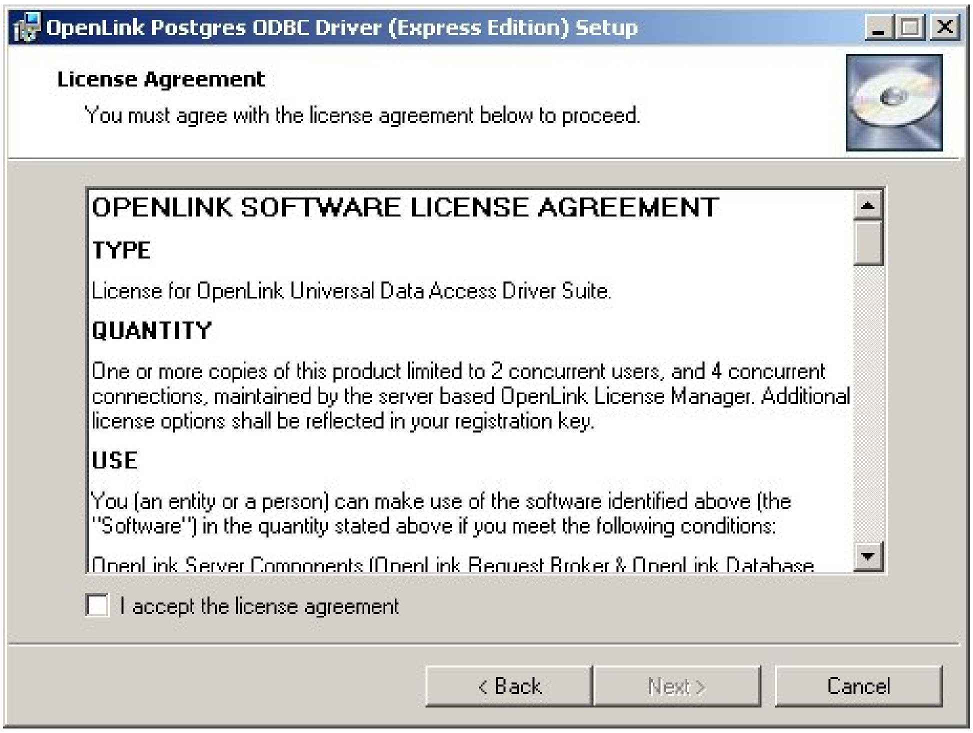
The installer will install OpenLink Postgres ODBC Driver (Express Edition) on your computer. Click Next to continue or Cancel to exit the installer.

WARNING: This program is protected by copyright law and international treaties.

Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.

Please read the software license agreement and accept before continuing your installation:

Figure 9.34. EEWinpgrinst03.png



OpenLink Postgres ODBC Driver (Express Edition) Setup

License Agreement

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TYPE

License for OpenLink Universal Data Access Driver Suite.

QUANTITY

One or more copies of this product limited to 2 concurrent users, and 4 concurrent connections, maintained by the server based OpenLink License Manager. Additional license options shall be reflected in your registration key.

USE

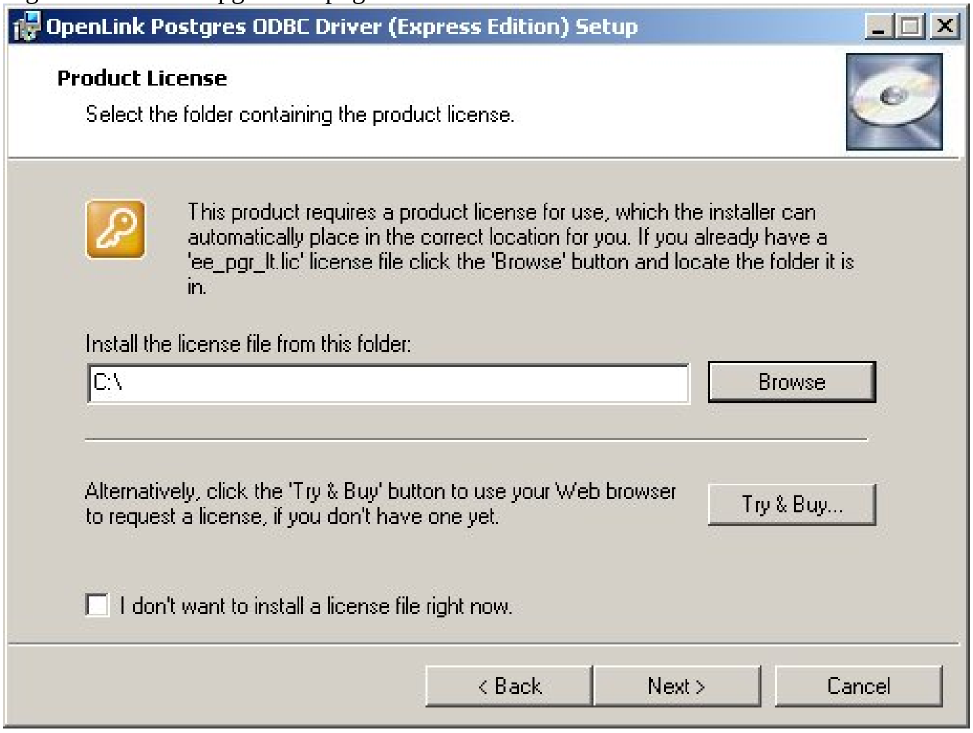
You (an entity or a person) can make use of the software identified above (the "Software") in the quantity stated above if you meet the following conditions:

OpenLink Server Components (OpenLink Request Broker & OpenLink Database

☐ I accept the license agreement

Before installation you will be prompted for a license file. If a license file already exists on the machine, then select the 'use exisiting file' option. A trial (try) or full (buy) license can be obtained by selecting the 'try and buy' option, which loads OpenLink's online try and buy web page:

Figure 9.35. EEWinpgrinst04.png



OpenLink Postgres ODBC Driver (Express Edition) Setup

Product License

Select the folder containing the product license.

This product requires a product license for use, which the installer can automatically place in the correct location for you. If you already have a 'ee_pgr_lt.lic' license file click the 'Browse' button and locate the folder it is in.

Install the license file from this folder:

C:\

Alternatively, click the 'Try & Buy' button to use your Web browser to request a license, if you don't have one yet.

☐ I don't want to install a license file right now.

To obtain the trial license, you must be a registered user on the OpenLinkWeb site and login with your username (e-mail address) and password. Click on the 'Shop' link to visit OpenLink's online shop cart to purchase a full license, if required:

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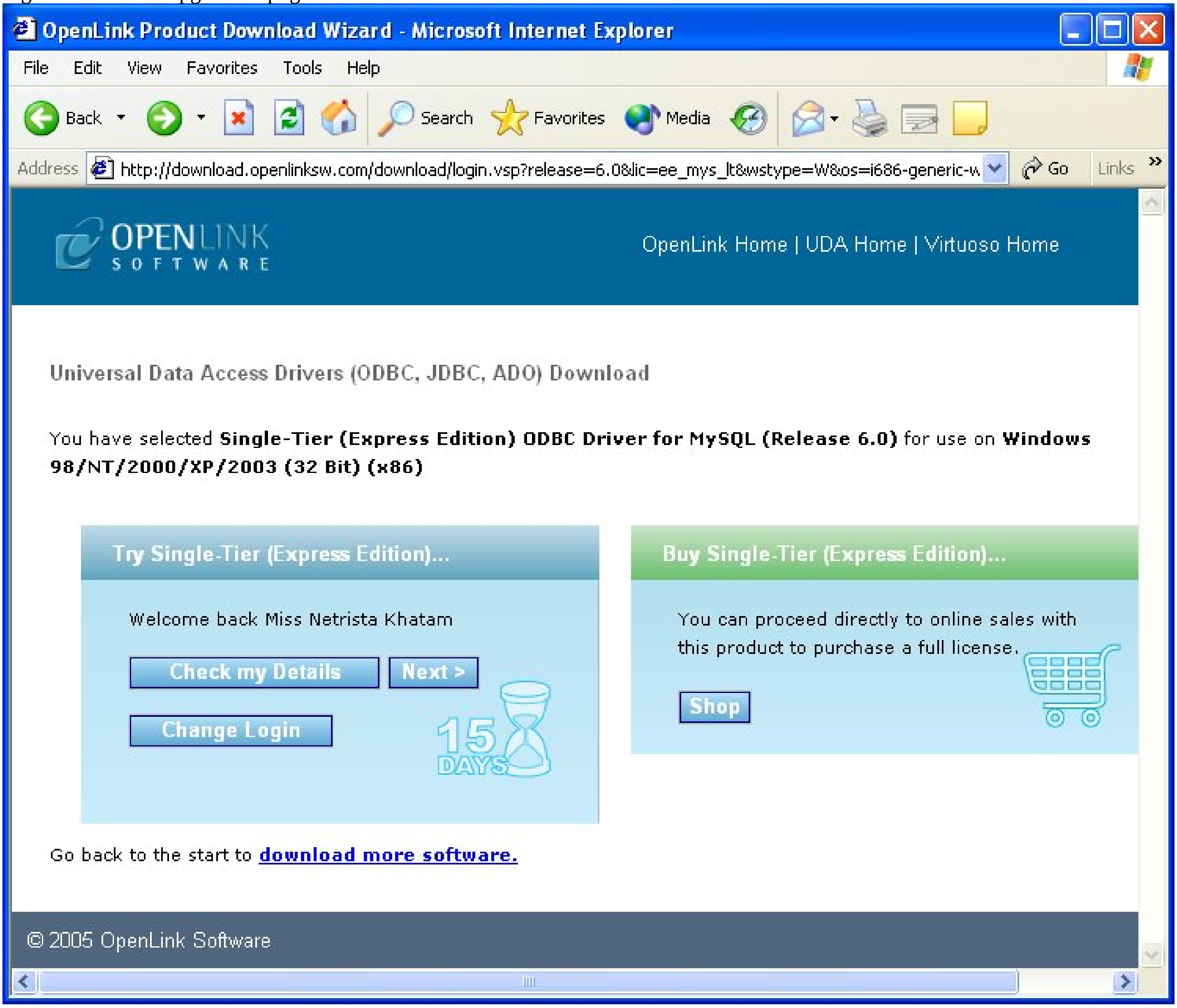
Figure 9.36. EEWinpgrinst05.png



OpenLink Product Download Wizard - Microsoft Internet Explorer

Address: http://download.openlinksw.com/download/login.vsp?release=6.0&lic=ee_mys_lt&wstype=W&os=i686-generic-w

Universal Data Access Drivers (ODBC, JDBC, ADO) Download

You have selected **Single-Tier (Express Edition) ODBC Driver for MySQL (Release 6.0)** for use on **Windows 98/NT/2000/XP/2003 (32 Bit) (x86)**

Try Single-Tier (Express Edition)...

Welcome back Miss Netrista Khatam

Buy Single-Tier (Express Edition)...

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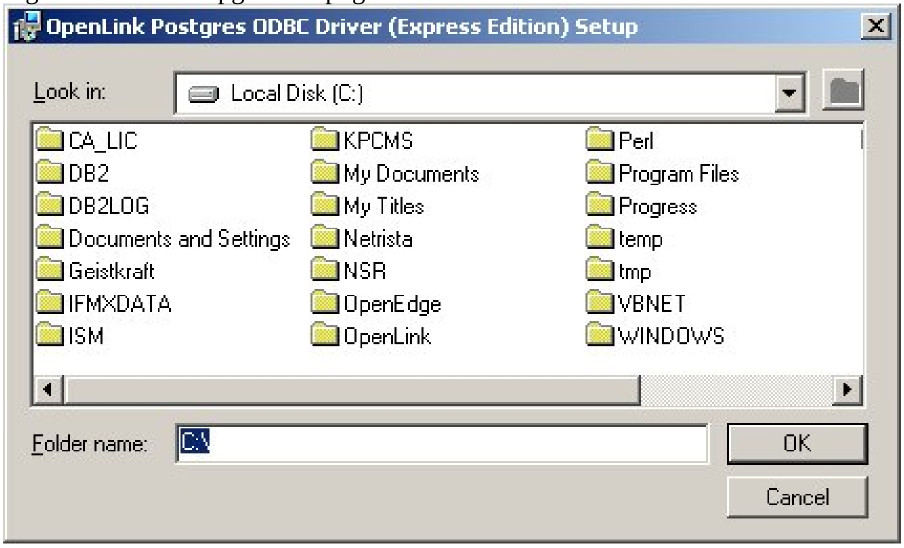
Select the license file to be used for the installation:

Figure 9.37. EEWinpgrinst06.png



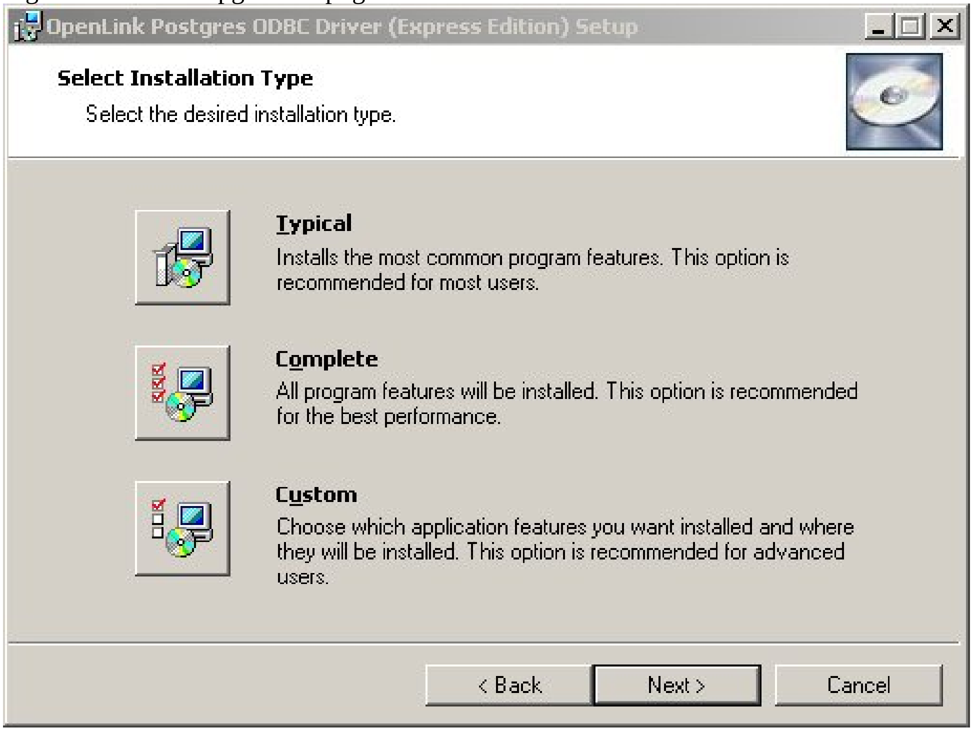
OpenLink Postgres ODBC Driver (Express Edition) Setup

Look in: Local Disk (C:)

Folder name: C:\

Choose to perform a custom, typical or complete installation of the driver:

Figure 9.38. EEWinpgrinst07.png



OpenLink Postgres ODBC Driver (Express Edition) Setup

Select Installation Type

Select the desired installation type.

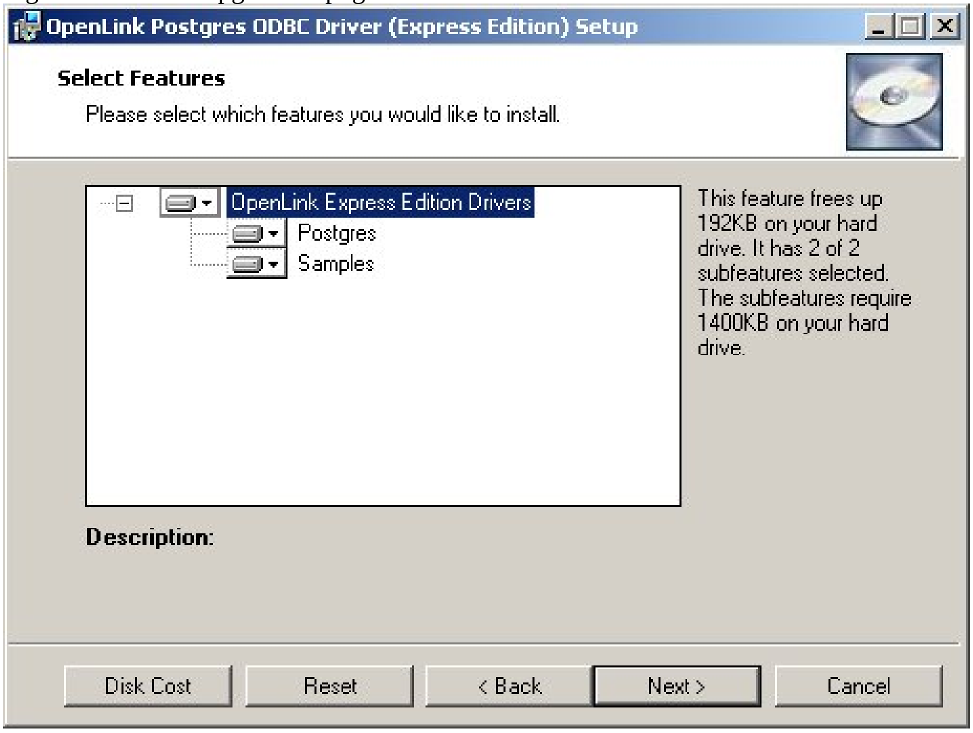
Typical
Installs the most common program features. This option is recommended for most users.

Complete
All program features will be installed. This option is recommended for the best performance.

Custom
Choose which application features you want installed and where they will be installed. This option is recommended for advanced users.

Select the features to be installed:

Figure 9.39. EEWinpgrinst08.png



OpenLink Postgres ODBC Driver (Express Edition) Setup

Select Features

Please select which features you would like to install.

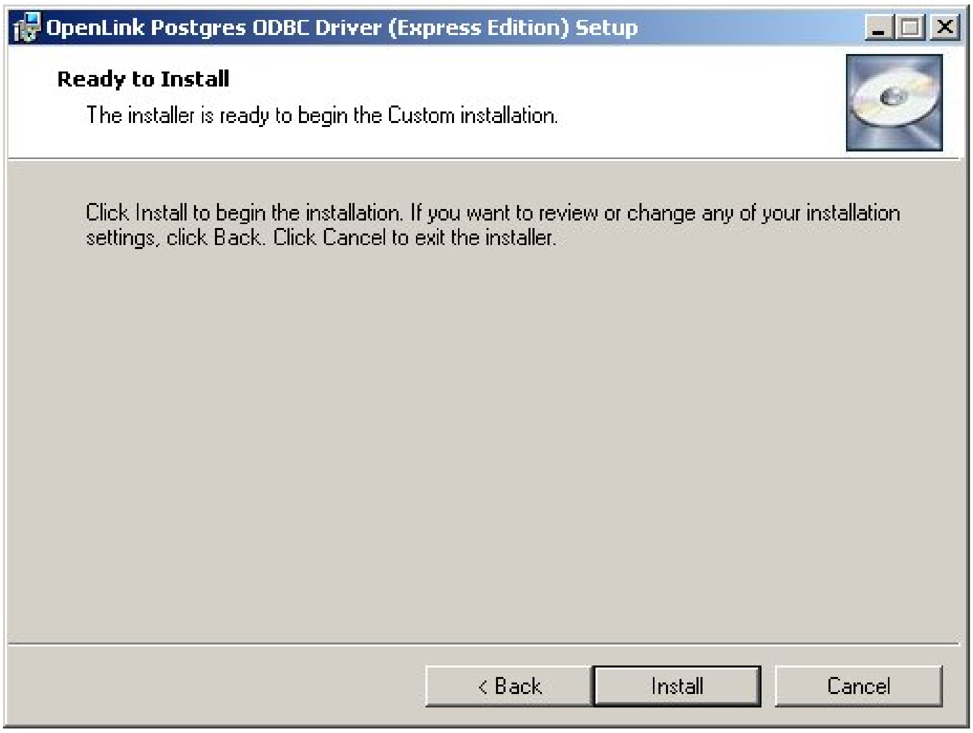
- OpenLink Express Edition Drivers
  - Postgres
  - Samples

This feature frees up 192KB on your hard drive. It has 2 of 2 subfeatures selected. The subfeatures require 1400KB on your hard drive.

Description:

Click the install button to begin the installation of components:

Figure 9.40. EEWinpgrinst09.png



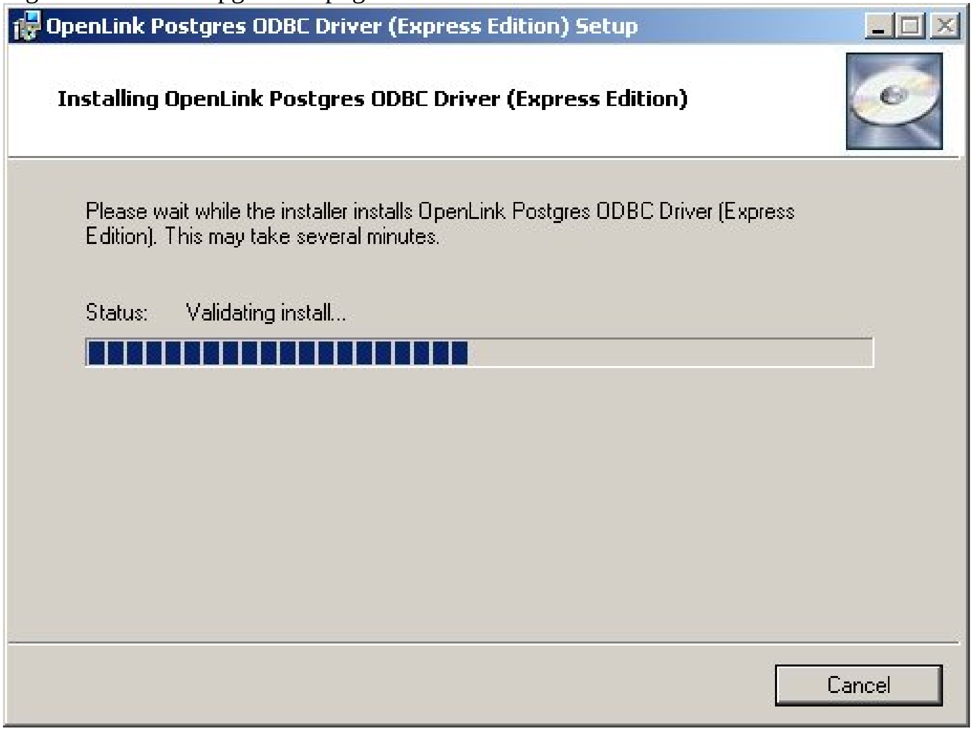
Ready to Install

The installer is ready to begin the Custom installation.

Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the installer.

Installation in progress:

Figure 9.41. EEWinpgrinst10.png



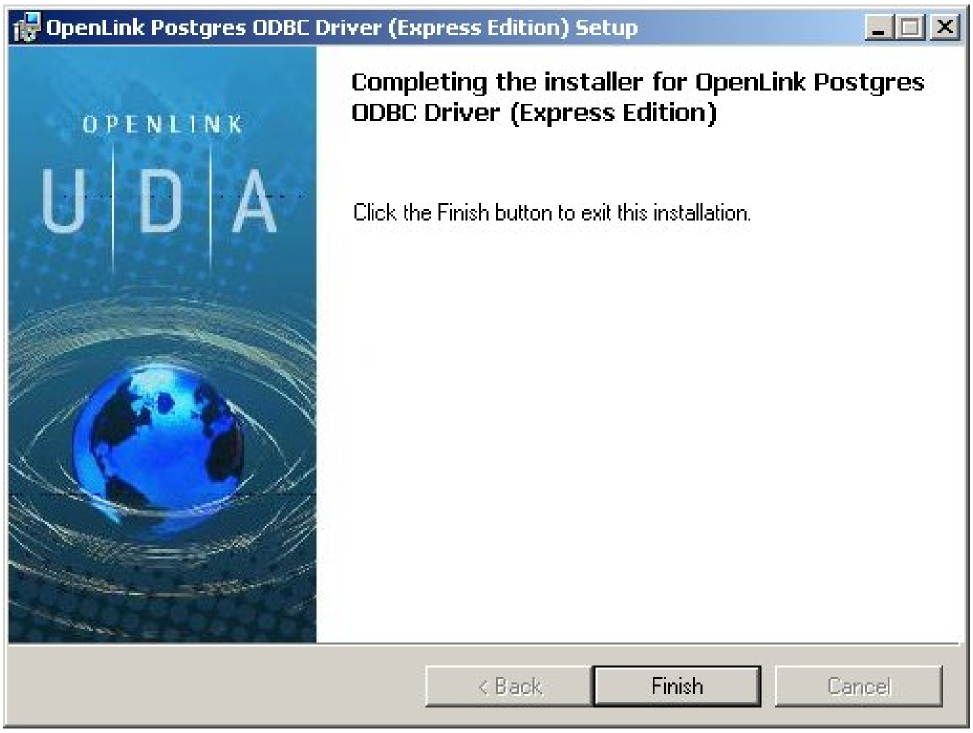
Installing OpenLink Postgres ODBC Driver (Express Edition)

Please wait while the installer installs OpenLink Postgres ODBC Driver (Express Edition). This may take several minutes.

Status: Validating install...

The Software installation is complete and ready for use:

Figure 9.42. EEWinpgrinst11.png



OpenLink Postgres ODBC Driver (Express Edition) Setup

Completing the installer for OpenLink Postgres ODBC Driver (Express Edition)

Click the Finish button to exit this installation.

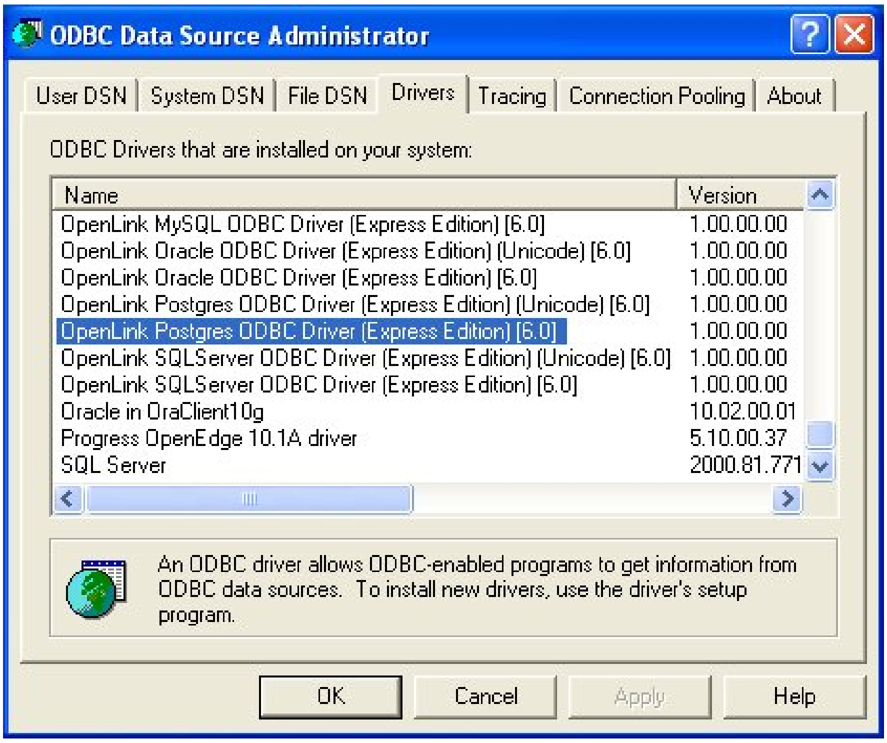
10.2.2 Configuration

To configure an ODBCDSN, run the ODBCAdministrator located in the Administrative Tools section of the Control Panel:

Figure 9.43. EEWinpgrconf01.png

Click on the Drivers tab to confirm the OpenLink PostgreSQL ODBCDriver [Express Edition][6.0] has been successfully installed:

Figure 9.44. EEWinpgrconf02.png



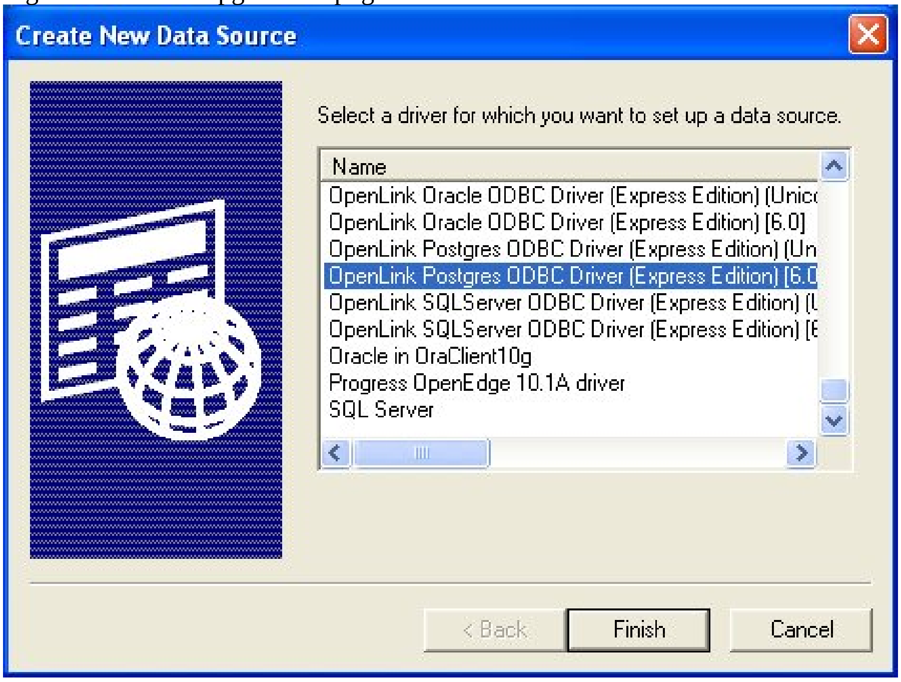
ODBC Drivers that are installed on your system:

Name	Version
OpenLink MySQL ODBC Driver (Express Edition) [6.0]	1.00.00.00
OpenLink Oracle ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink Oracle ODBC Driver (Express Edition) [6.0]	1.00.00.00
OpenLink Postgres ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink Postgres ODBC Driver (Express Edition) [6.0]	1.00.00.00
OpenLink SQLServer ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink SQLServer ODBC Driver (Express Edition) [6.0]	1.00.00.00
Oracle in OraClient10g	10.02.00.01
Progress OpenEdge 10.1A driver	5.10.00.37
SQL Server	2000.81.771

An ODBC driver allows ODBC-enabled programs to get information from ODBC data sources. To install new drivers, use the driver's setup program.

From either the User or System DSN tabs, click on the Add button and select the OpenLink PostgreSQL ODBCDriver [Express Edition][6.0] from the list :

Figure 9.45. EEWinpgrconf03.png

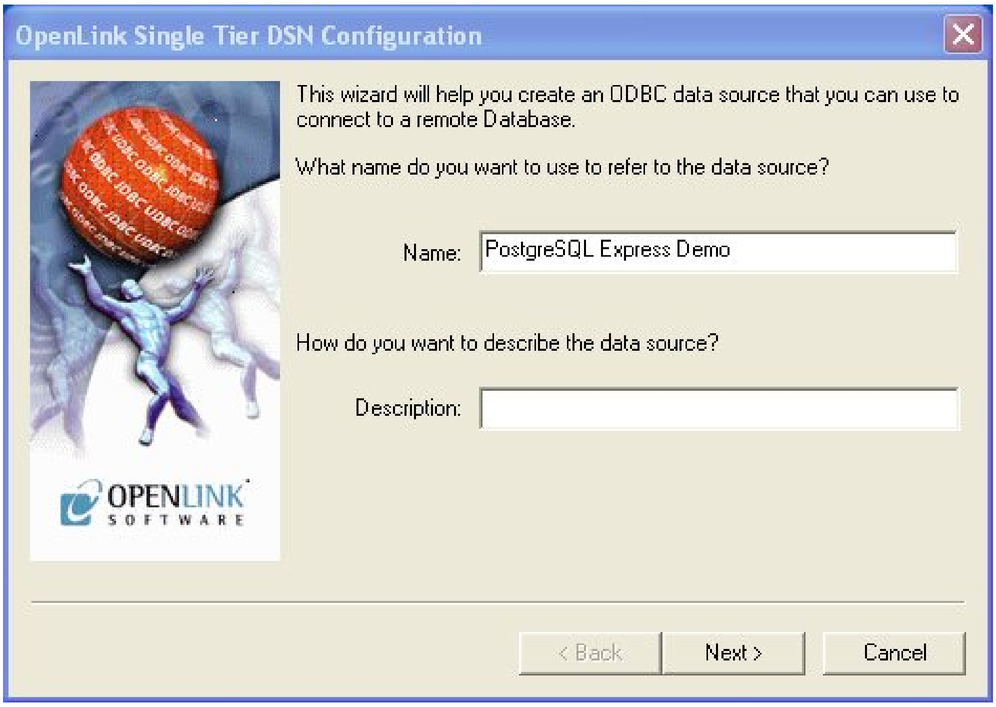


Select a driver for which you want to set up a data source.

Name
OpenLink Oracle ODBC Driver (Express Edition) (Unic
OpenLink Oracle ODBC Driver (Express Edition) [6.0]
OpenLink Postgres ODBC Driver (Express Edition) (Un
OpenLink Postgres ODBC Driver (Express Edition) [6.0
OpenLink SQLServer ODBC Driver (Express Edition) (U
OpenLink SQLServer ODBC Driver (Express Edition) [6
Oracle in OraClient10g
Progress OpenEdge 10.1A driver
SQL Server

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 9.46. EEWinpgrconf04.png



This wizard will help you create an ODBC data source that you can use to connect to a remote Database.

What name do you want to use to refer to the data source?

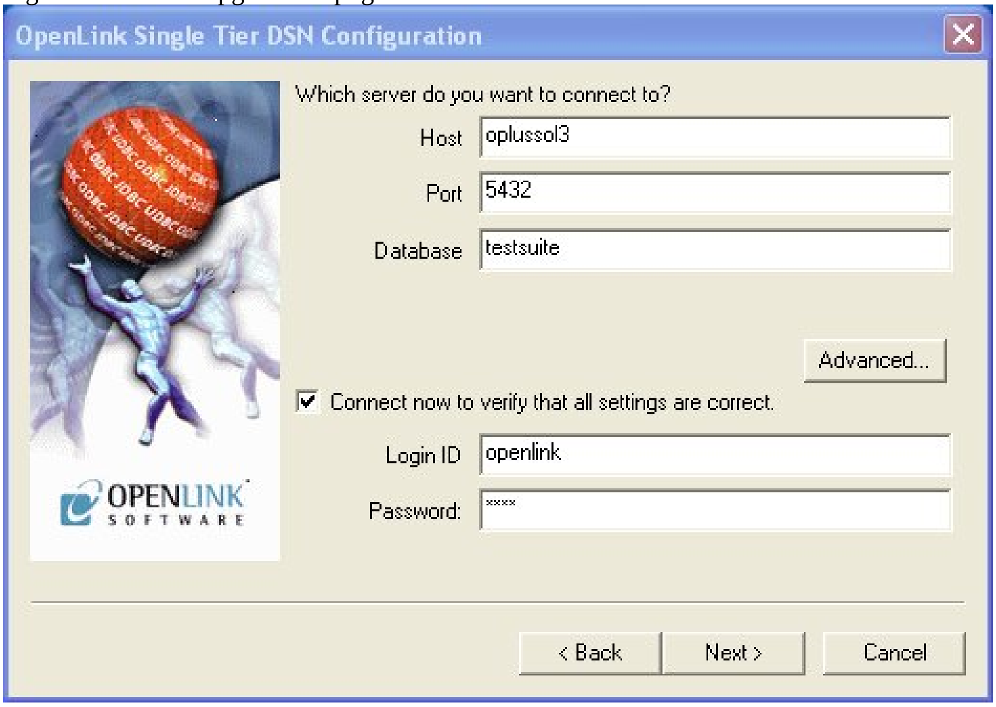
Name: PostgreSQL Express Demo

How do you want to describe the data source?

Description:

The Connection tab requests the minimum parameters required to make a connection to the target database:

Figure 9.47. EEWinpgrconf05.png



Which server do you want to connect to?

Host oplussol3

Port 5432

Database testsuite

☑ Connect now to verify that all settings are correct.

Login ID openlink

Password: ****

- *Host* : This is the fully qualified hostname or IP address of the machine hosting the DBMS you wish to access, e.g., dbms-server.example.com, or 192.168.155.123. Any hostname which will be resolved by your local DNS is acceptable.

- *Port* : This is the port on which PostgreSQL is listening

- *Database* : This is the name of the PostgreSQL database to which you want to connect

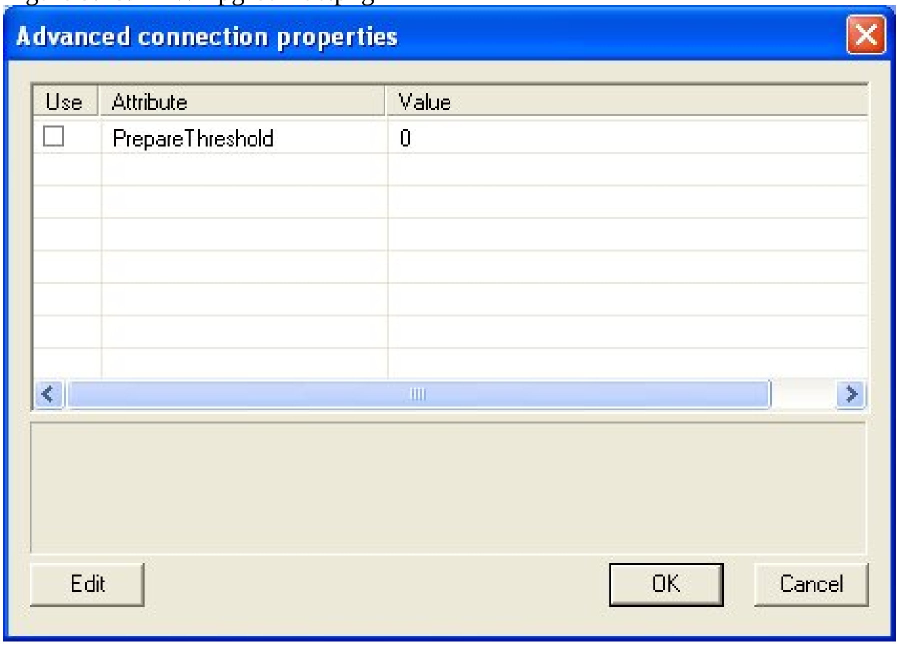
- *Login ID* : This is a valid user name for the PostgreSQL database

- *Password* : This is a valid password for the PostgreSQL database

Click next to verify that all settings are correct or uncheck the check box to delay testing to a later stage.

The advanced button displays additional, optional parameters that can be configured:

Figure 9.48. EEWinpgrconf06.png



Advanced connection properties

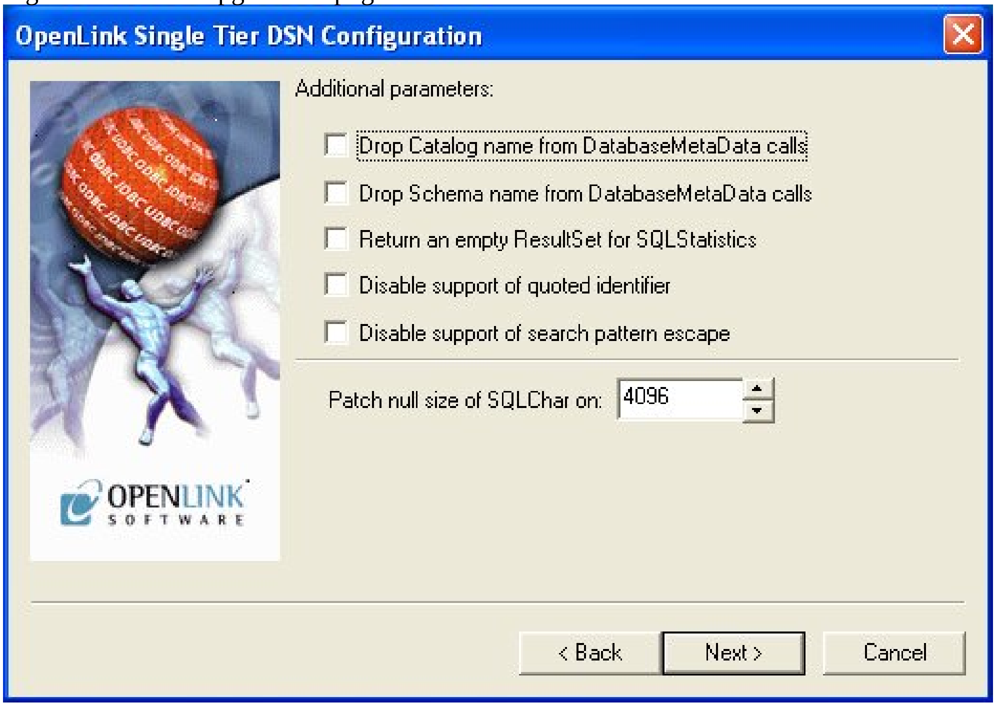
Use	Attribute	Value
□	PrepareThreshold	0

Table 9.1.

PrepareThreshold	Sets the default threshold for enabling server-side prepare.

As indicated above, the parameters on the options and preferences tabs are not required for a basic connection.

Figure 9.49. EEWinpgrconf17.png



OpenLink Single Tier DSN Configuration

Additional parameters:

□ Drop Catalog name from DatabaseMetaData calls

□ Drop Schema name from DatabaseMetaData calls

□ Return an empty ResultSet for SQLStatistics

□ Disable support of quoted identifier

□ Disable support of search pattern escape

Patch null size of SQLChar on: 4096

- *Drop Catalog name from DatabaseMetaData calls* - Enable this option to have the catalog name not appear for tables, views, and procedures when requesting database meta-data.

- *Drop Schema name from DatabaseMetaData calls* - Enable this option to have the schema-name not appear for tables, views, and procedures when requesting database meta-data.

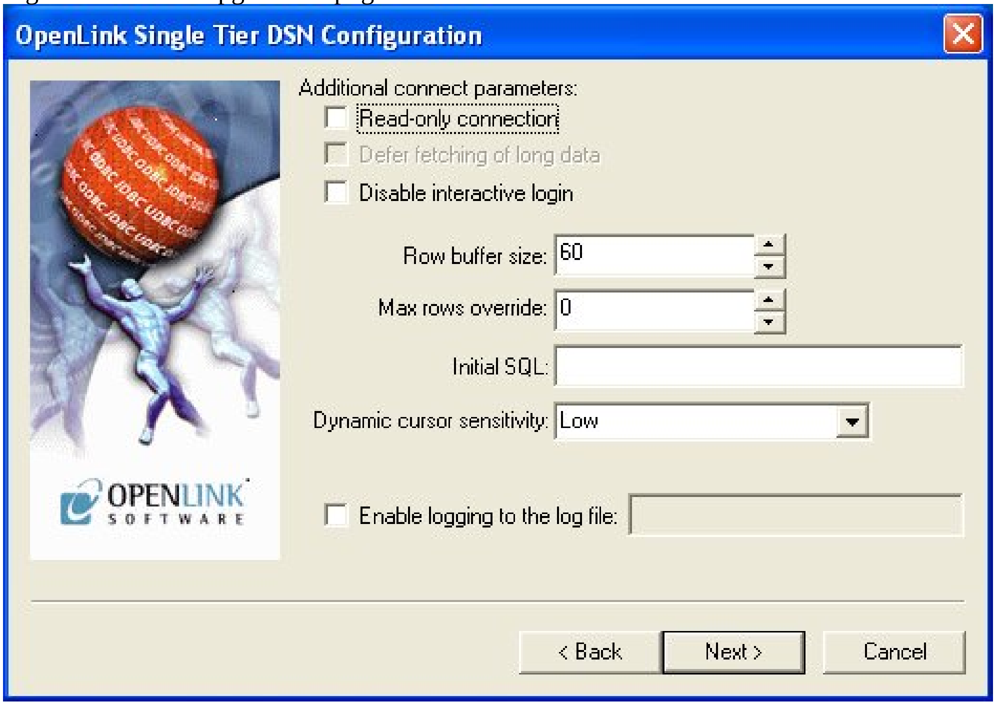
- *Return an empty ResultSet for SQLStatistics* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table, e.g., what indexes there are on it.

- *Disable support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if the DBMS does not support quoted SQL, e.g., select * from "account."

- *Disable support of search pattern escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if the DBMS does not support SQL escape patterns.

- *Patch of NULL size of SQL_CHAR* - If set, this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0, the driver uses the size returned by the database.

Figure 9.50. EEWinpgrconf08.png



OpenLink Single Tier DSN Configuration

Additional connect parameters:

□ Read-only connection

□ Defer fetching of long data

□ Disable interactive login

Row buffer size: 60

Max rows override: 0

Initial SQL:

Dynamic cursor sensitivity: Low

□ Enable logging to the log file:

- *Disable Interactive Login* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.

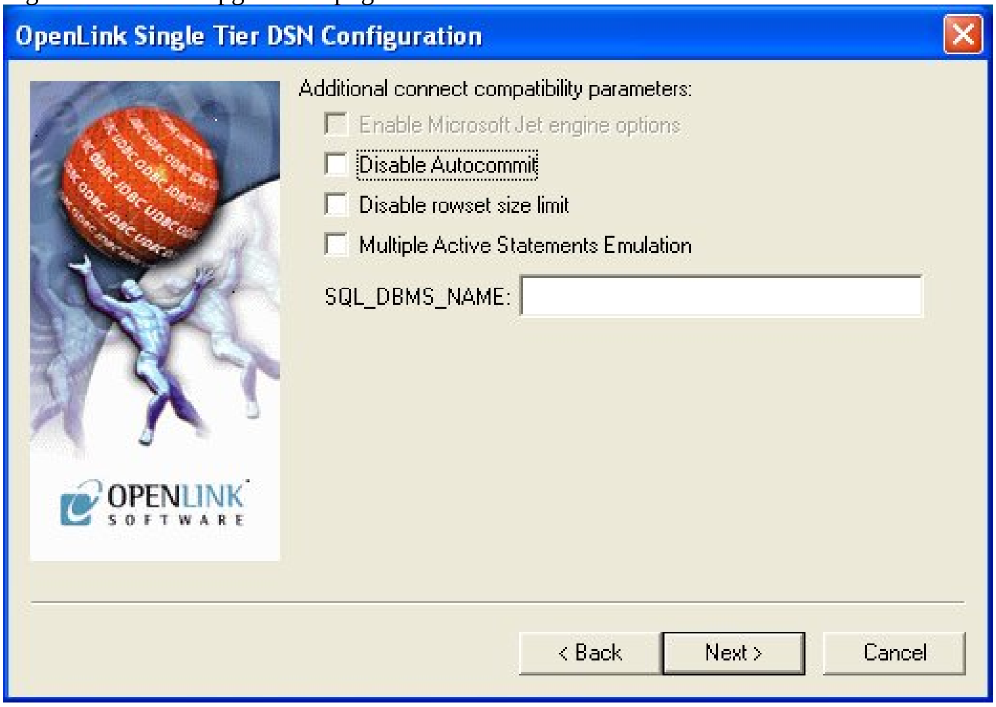
- *Max rows override* - Allows you to define a limit on the maximum number of rows to be returned from a query. The default value of 0 means no limit.

- *Initial SQL* - Lets you specify a file containing SQL statements that will be automatically run against the database upon connection.

- *Dynamic Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched, and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED, when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows do not appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate OpenLink script for the target database.

- *Enable logging to the log file:* - Specifies the full path to a text file. If the associated checkbox is checked, and a file is passed, the driver will log auto-generate a clientside ODBC trace.

Figure 9.51. EEWinpgrconf09.png



OpenLink Single Tier DSN Configuration

Additional connect compatibility parameters:

□ Enable Microsoft Jet engine options

□ Disable Autocommit

□ Disable rowset size limit

□ Multiple Active Statements Emulation

SQL_DBMS_NAME:

- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Driver. The default mode is AutoCommit (box unchecked).

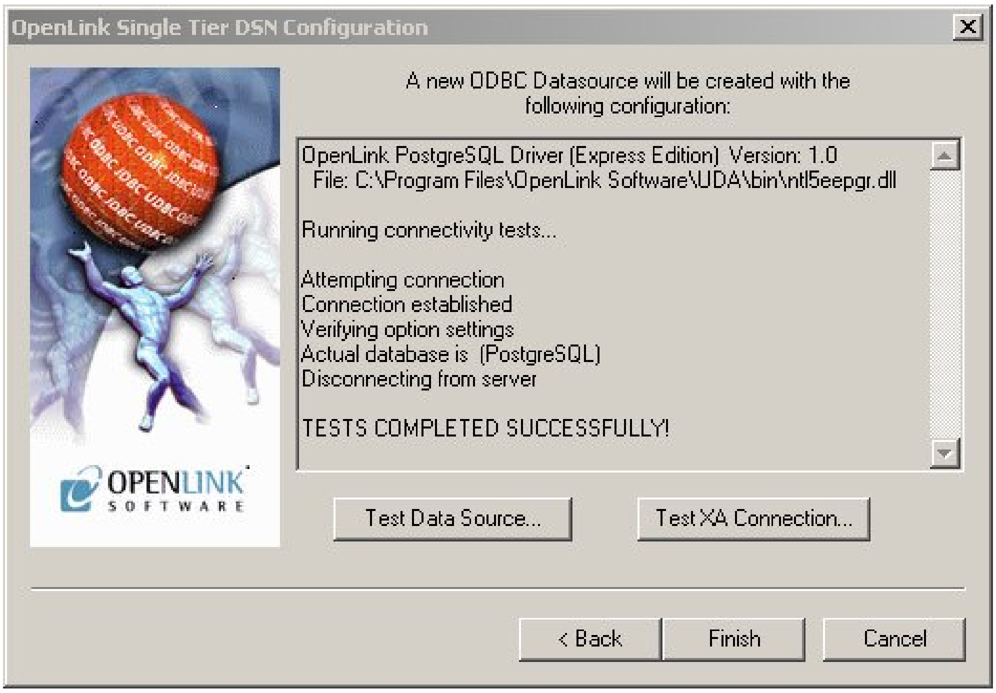
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset generated from an erroneous query is very large. The limit is normally never reached.

- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

- *SQL_DBMS Name* - Manually override the SQLGetInfo(SQL_DBMS_NAME) response returned by the driver. This is required for products like Microsoft InfoPath for which the return value must be "SQL Server".

Click on the *Test Data Source*button to verify that a successful connection can be made to the database.

Figure 9.52. EEWinpgrconf10.png



A new ODBC Datasource will be created with the following configuration:

```
OpenLink PostgreSQL Driver (Express Edition)  Version: 1.0
  File: C:\Program Files\OpenLink Software\UDA\bin\ntl5eepgr.dll

Running connectivity tests...

Attempting connection
Connection established
Verifying option settings
Actual database is  (PostgreSQL)
Disconnecting from server

TESTS COMPLETED SUCCESSFULLY!
```

11 Chapter 10. OpenLink ODBC Driver for SQL Server (Express Editon)

Table of Contents

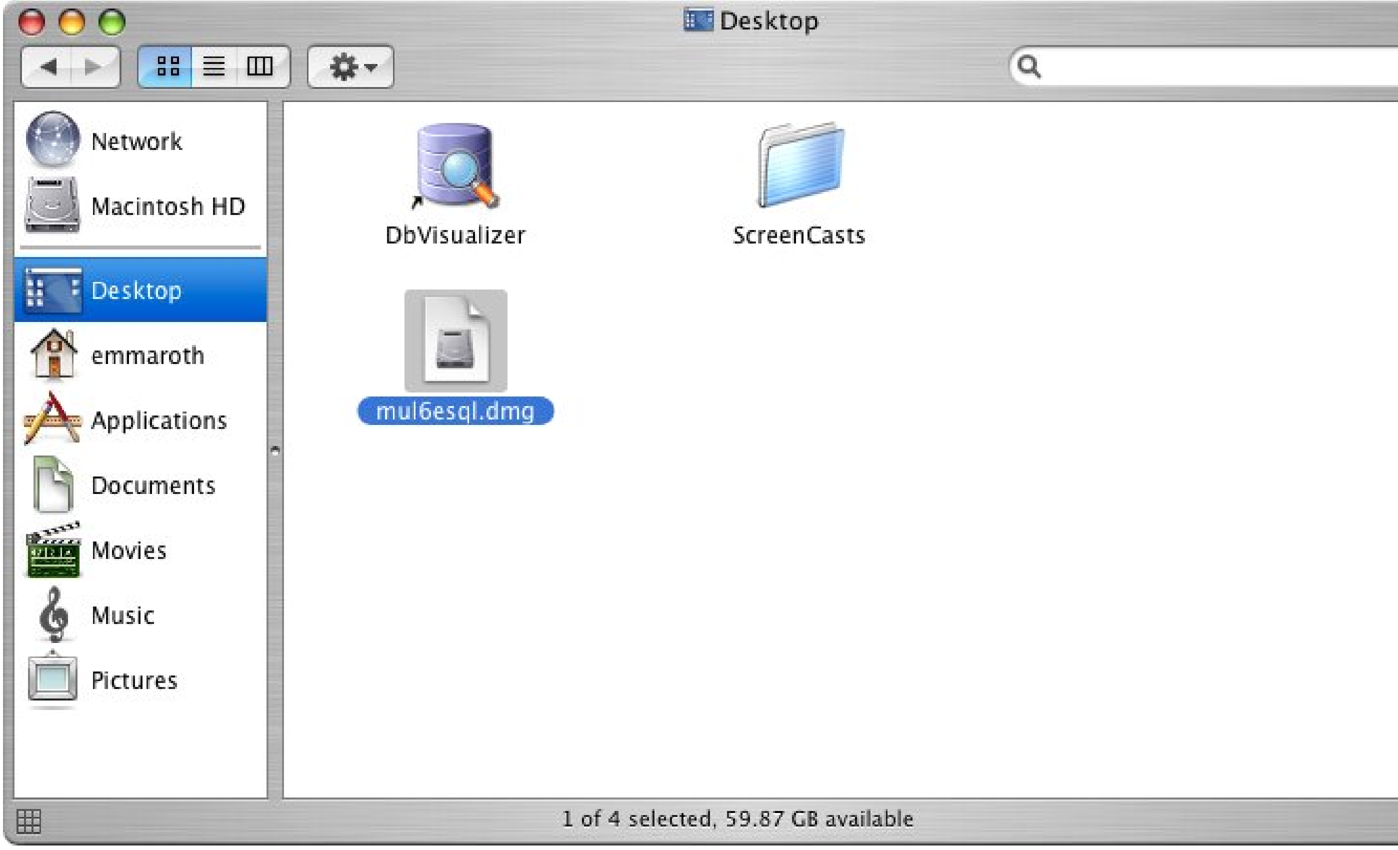
- OpenLink ODBC Driver for SQL Server (Express Editon) for Mac OS X
    - Installation Guide
    - Configuration
- OpenLink ODBC Driver for SQL Server (Express Editon) for Windows
    - Installation
    - Configuration

11.1 OpenLink ODBC Driver for SQL Server (Express Editon) for Mac OS X

11.1.1 Installation Guide

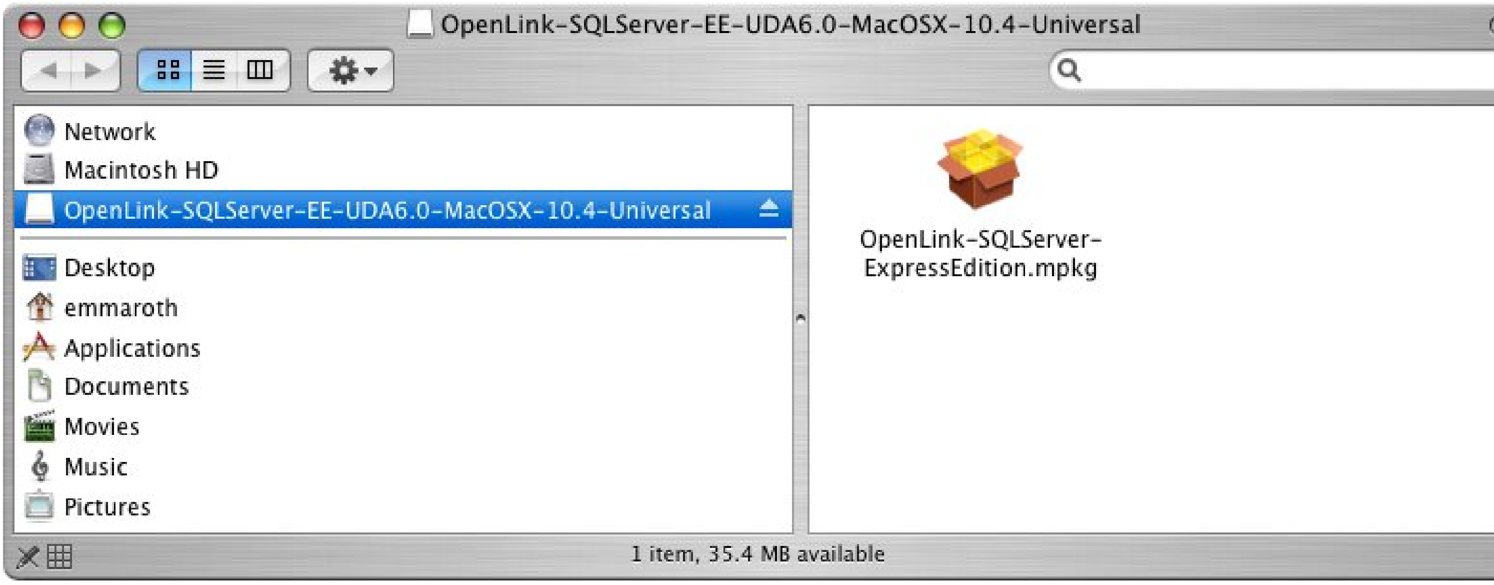
The OpenLink ODBC Driver for SQL Server (Express Edition is a distributed as a Disk Image (DMG) file. Simply double click on the disk image 'mul6esql.dmg' to extract the installer mpkg file:

Figure 10.1. SQLserverDMG.png



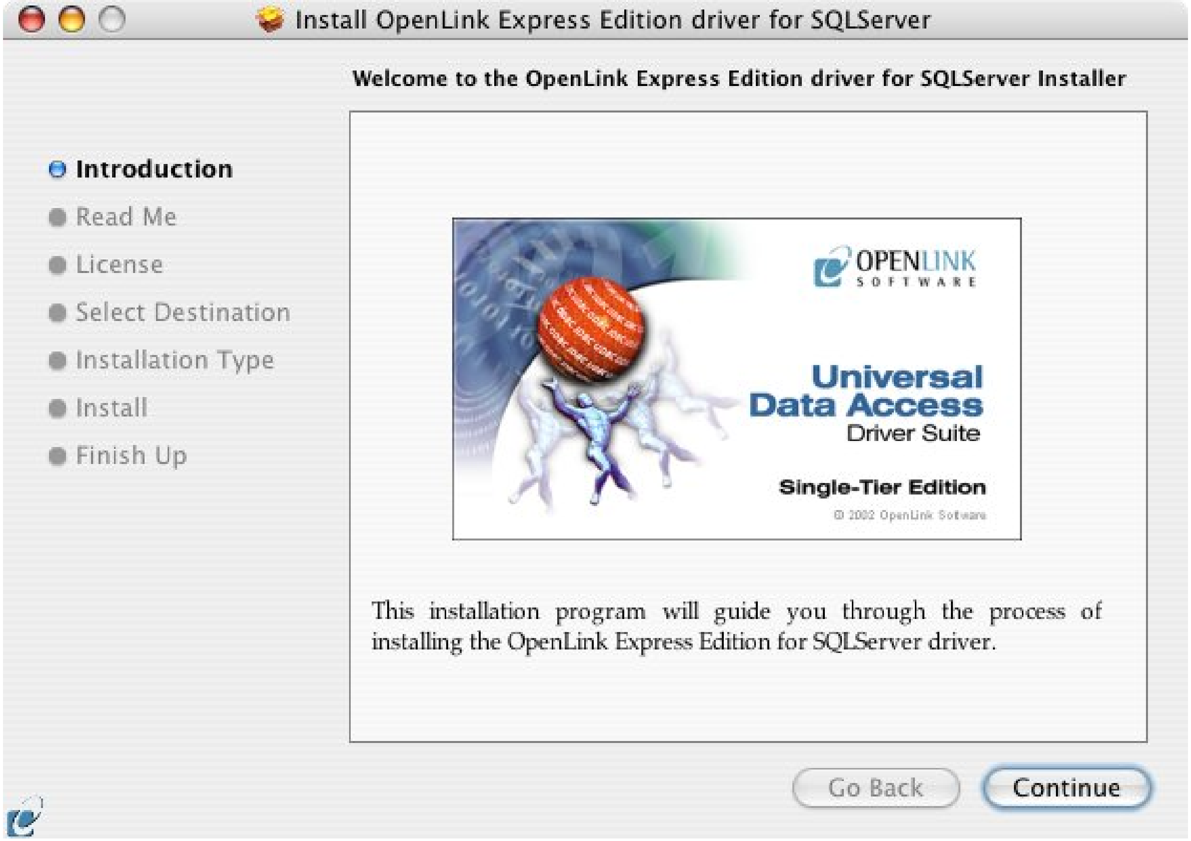
Double-click on the mpkg file to run the installer and following the on screen instriuction as indicated below to complete the installation:

Figure 10.2. SQLpackage.png


OpenLink-SQLServer-EE-UDA6.0-MacOSX-10.4-Universal
Network
Macintosh HD
OpenLink-SQLServer-EE-UDA6.0-MacOSX-10.4-Universal
Desktop
emmaroth
Applications
Documents
Movies
Music
Pictures
OpenLink-SQLServer-ExpressEdition.mpkg
1 item, 35.4 MB available

Installer Welcome Dialog for the OpenLink ODBC Driver for SQL Server (Express Edition):

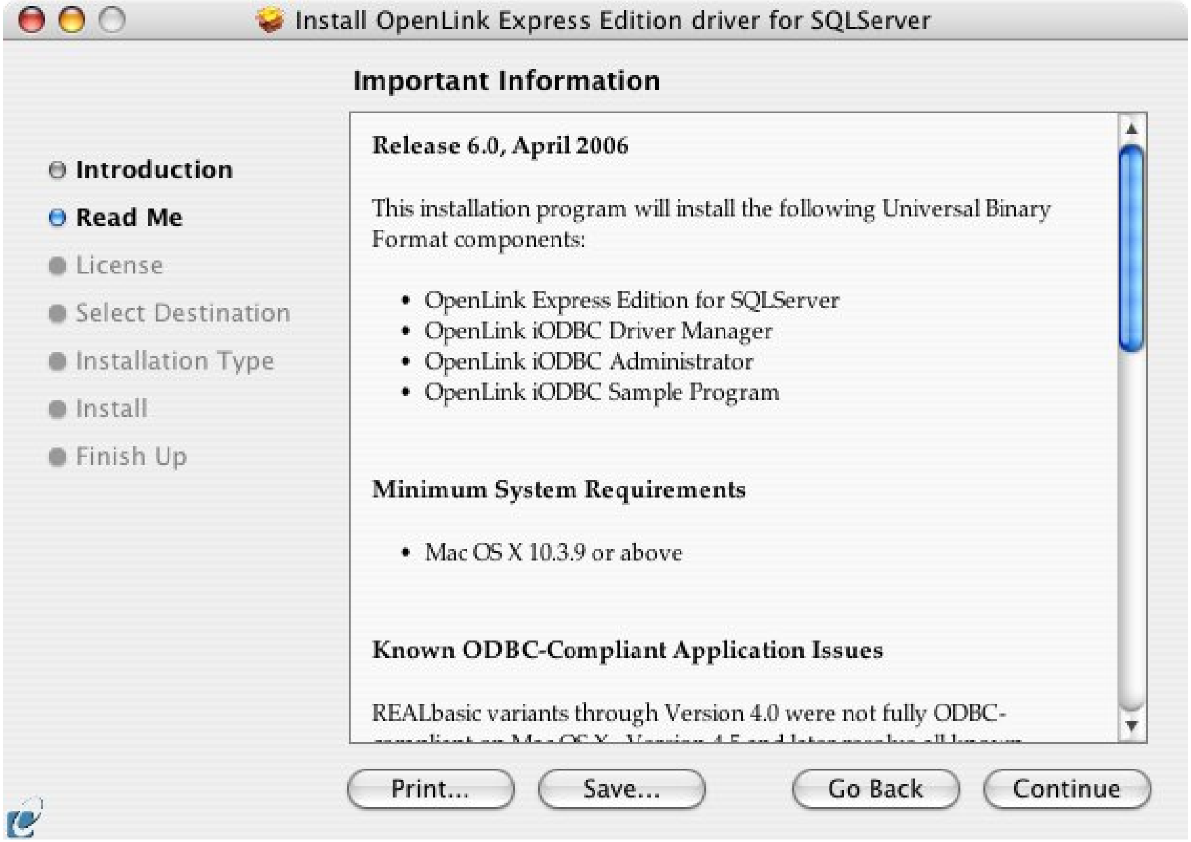
Figure 10.3. SQLinstall1.png


Install OpenLink Express Edition driver for SQLServer
Welcome to the OpenLink Express Edition driver for SQLServer Installer
Introduction
Read Me
License
Select Destination
Installation Type
Install
Finish Up
OPENLINK SOFTWARE
Universal Data Access Driver Suite
Single-Tier Edition
© 2002 OpenLink Software
Go Back
Continue

This installation program will guide you through the process of installing the OpenLink Express Edition for SQLServer driver.

Please review the readme file for installation requirements and known issues:

Figure 10.4. SQLinstall3.png



Important Information

Release 6.0, April 2006

This installation program will install the following Universal Binary Format components:

- OpenLink Express Edition for SQLServer
- OpenLink iODBC Driver Manager
- OpenLink iODBC Administrator
- OpenLink iODBC Sample Program

Minimum System Requirements

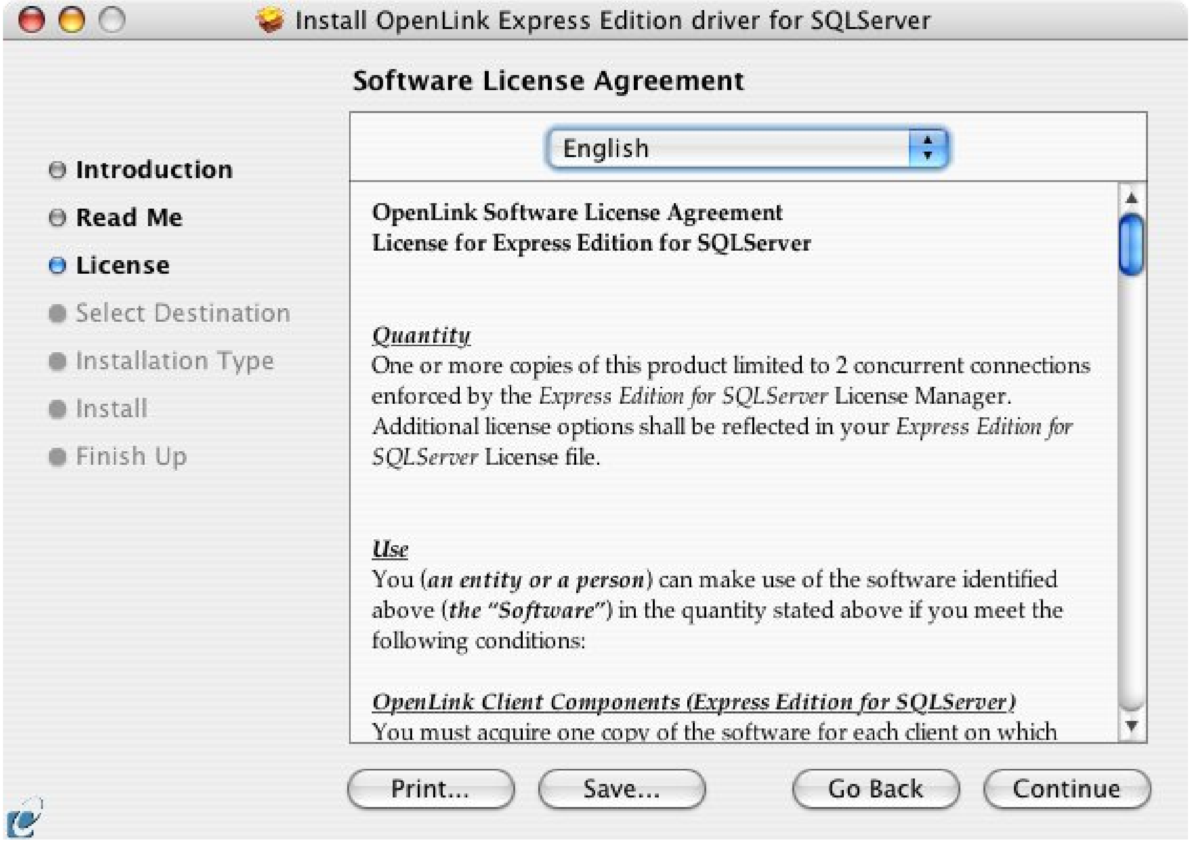
- Mac OS X 10.3.9 or above

Known ODBC-Compliant Application Issues

REALbasic variants through Version 4.0 were not fully ODBC-

Please read the software license agreement before continuing your installation:

Figure 10.5. SQLinstall4.png



Software License Agreement

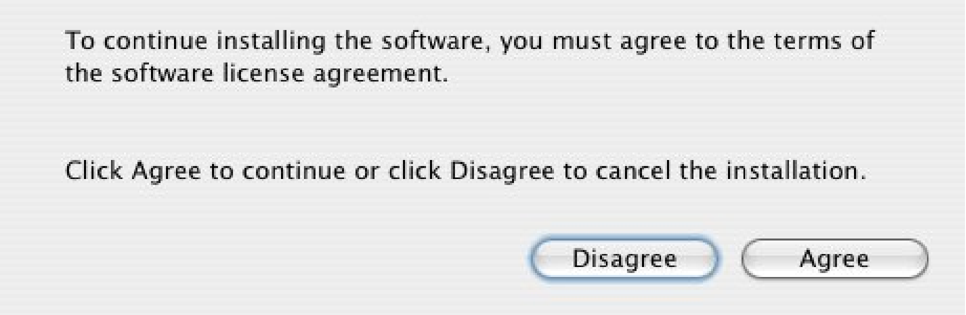
OpenLink Software License Agreement
License for Express Edition for SQLServer

Quantity
One or more copies of this product limited to 2 concurrent connections enforced by the *Express Edition for SQLServer* License Manager. Additional license options shall be reflected in your *Express Edition for SQLServer* License file.

Use
You (***an entity or a person***) can make use of the software identified above (***the "Software"***) in the quantity stated above if you meet the following conditions:

OpenLink Client Components (Express Edition for SQLServer)
You must acquire one copy of the software for each client on which

Figure 10.6. SQLinstall6.png

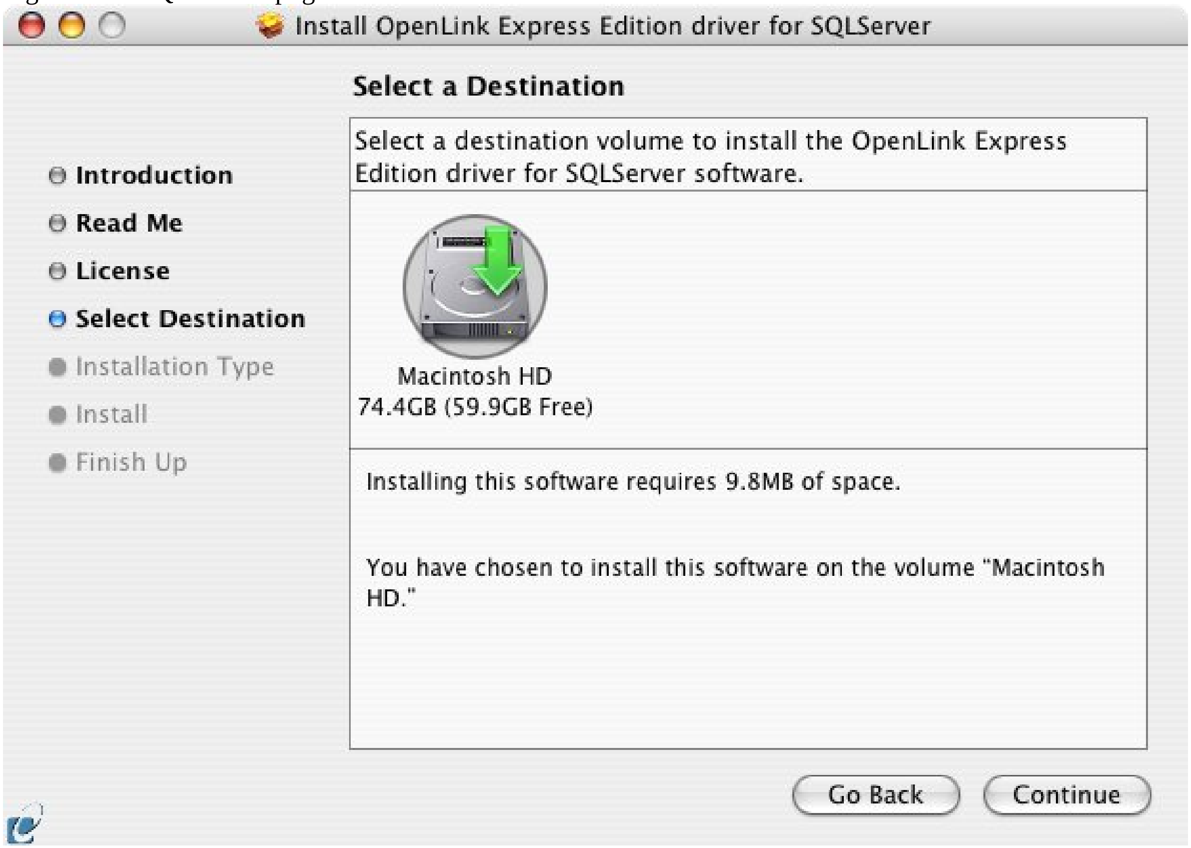


To continue installing the software, you must agree to the terms of the software license agreement.

Click Agree to continue or click Disagree to cancel the installation.

Select destination volume for driver installation:

Figure 10.7. SQLinstall7.png



Install OpenLink Express Edition driver for SQLServer

Select a Destination

Select a destination volume to install the OpenLink Express Edition driver for SQLServer software.

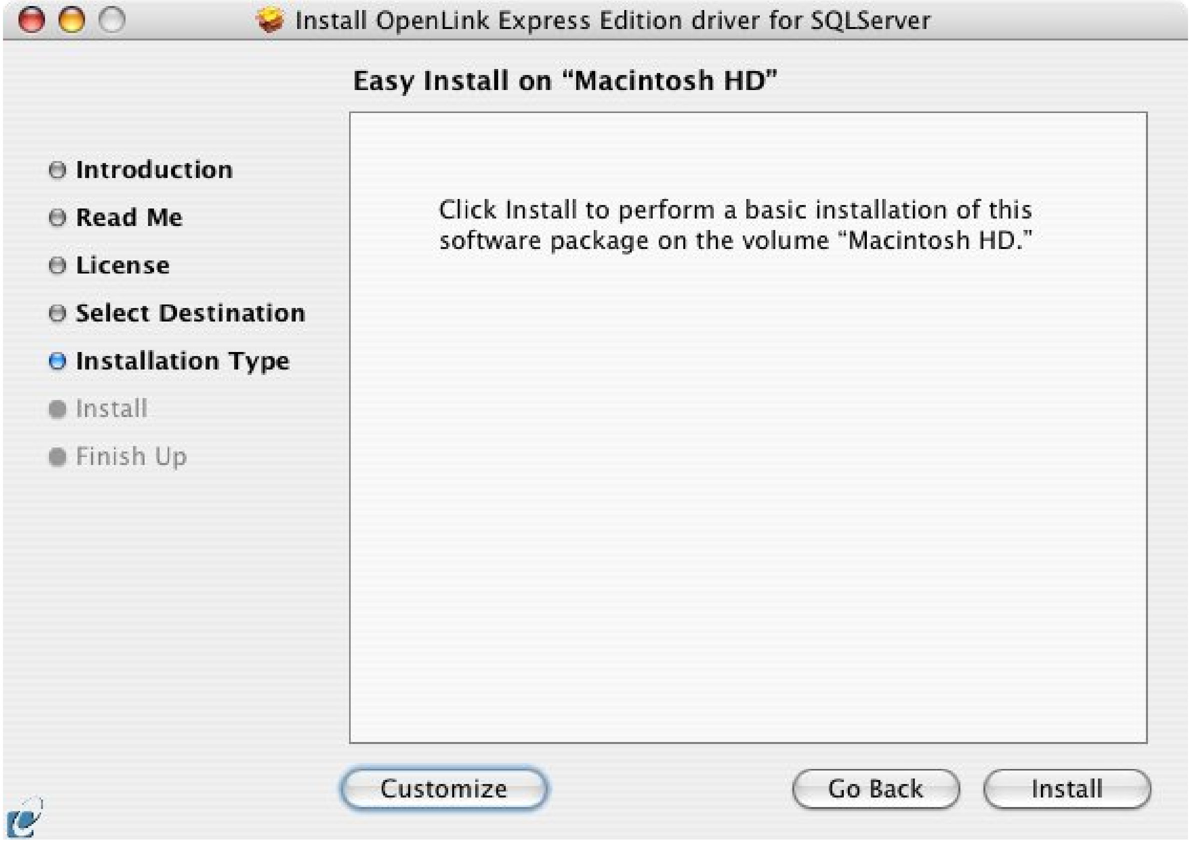
Macintosh HD
74.4GB (59.9GB Free)

Installing this software requires 9.8MB of space.

You have chosen to install this software on the volume "Macintosh HD."

Choose to perform a custom or default installation of the driver:

Figure 10.8. SQLinstall8.png



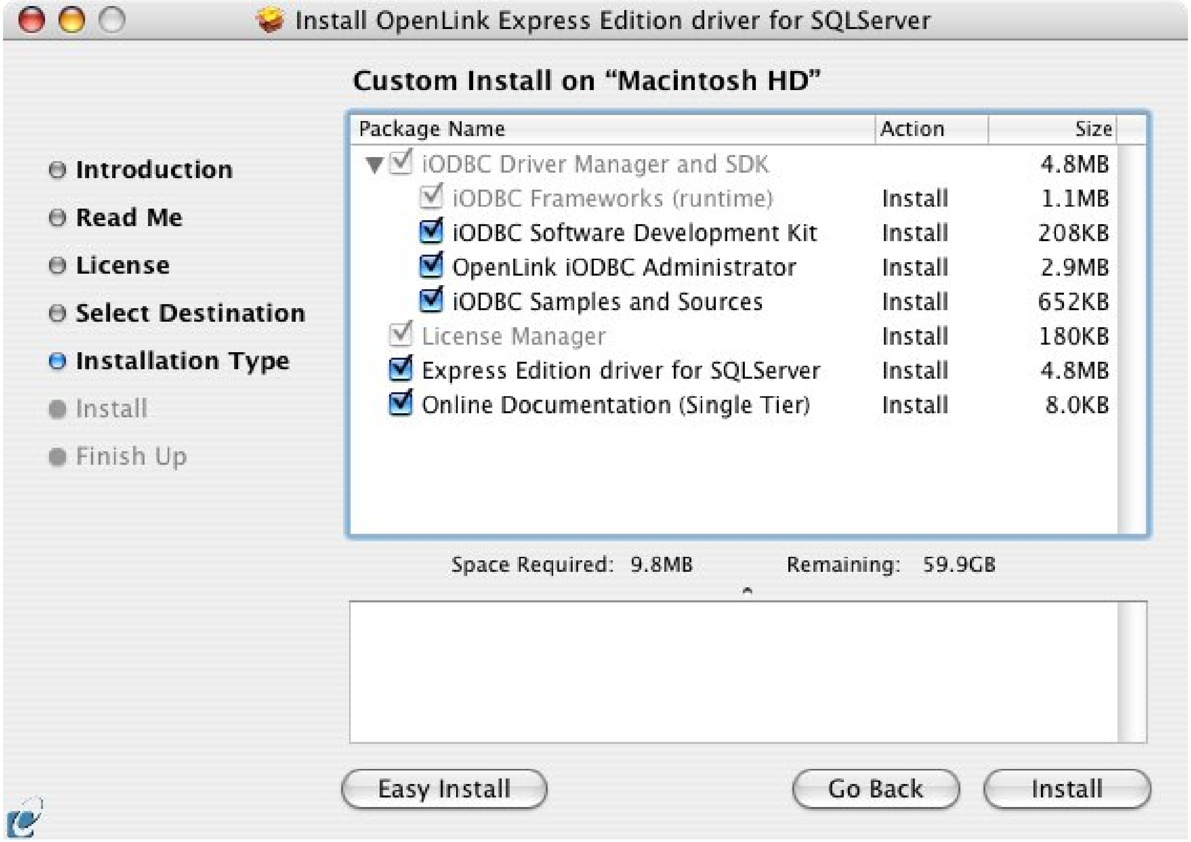
Install OpenLink Express Edition driver for SQLServer

Easy Install on “Macintosh HD”

Click Install to perform a basic installation of this software package on the volume “Macintosh HD.”

If you chose the custom option select which of the components below are to be installed:

Figure 10.9. SQLinstall10.png



Install OpenLink Express Edition driver for SQLServer

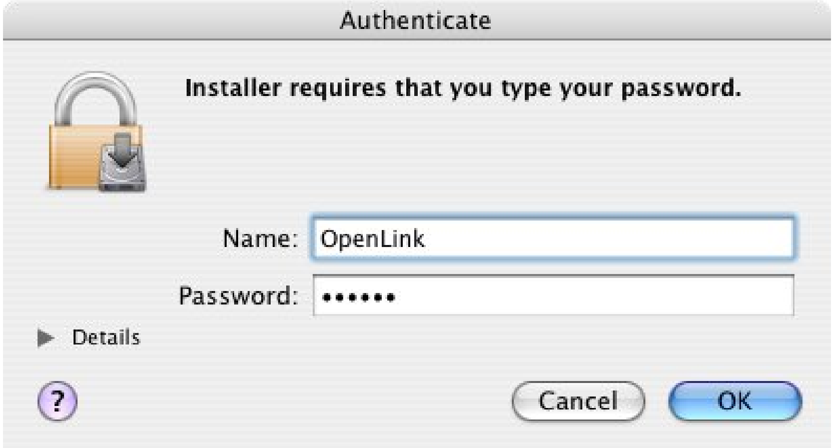
Custom Install on “Macintosh HD”

Package Name	Action	Size
▼ ☑ iODBC Driver Manager and SDK		4.8MB
☑ iODBC Frameworks (runtime)	Install	1.1MB
☑ iODBC Software Development Kit	Install	208KB
☑ OpenLink iODBC Administrator	Install	2.9MB
☑ iODBC Samples and Sources	Install	652KB
☑ License Manager	Install	180KB
☑ Express Edition driver for SQLServer	Install	4.8MB
☑ Online Documentation (Single Tier)	Install	8.0KB

Space Required: 9.8MB Remaining: 59.9GB

The Software must be installed as a user with Administrative privileges on the machine:

Figure 10.10. SQLinstall12.png



Authenticate

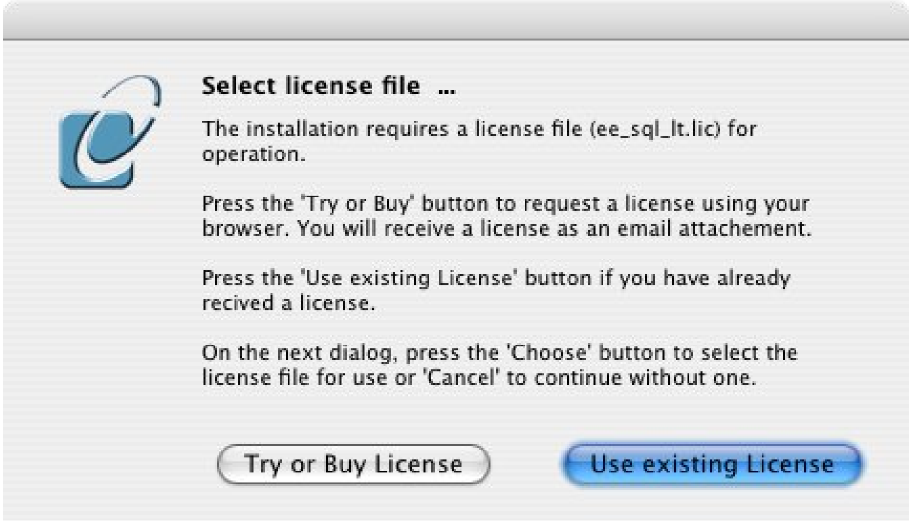
Installer requires that you type your password.

Name: OpenLink

Password: ••••••

After the driver has been installed you will be prompted for a license file. If a license file already exists on the machine then select the 'use exisiting file' option. A trial (try) or full (buy) license can be obtain by selecting the 'try and buy' option which loads our online try-and-buy web page:

Figure 10.11. SQLinstall14.png



Select license file ...

The installation requires a license file (ee_sql_lt.lic) for operation.

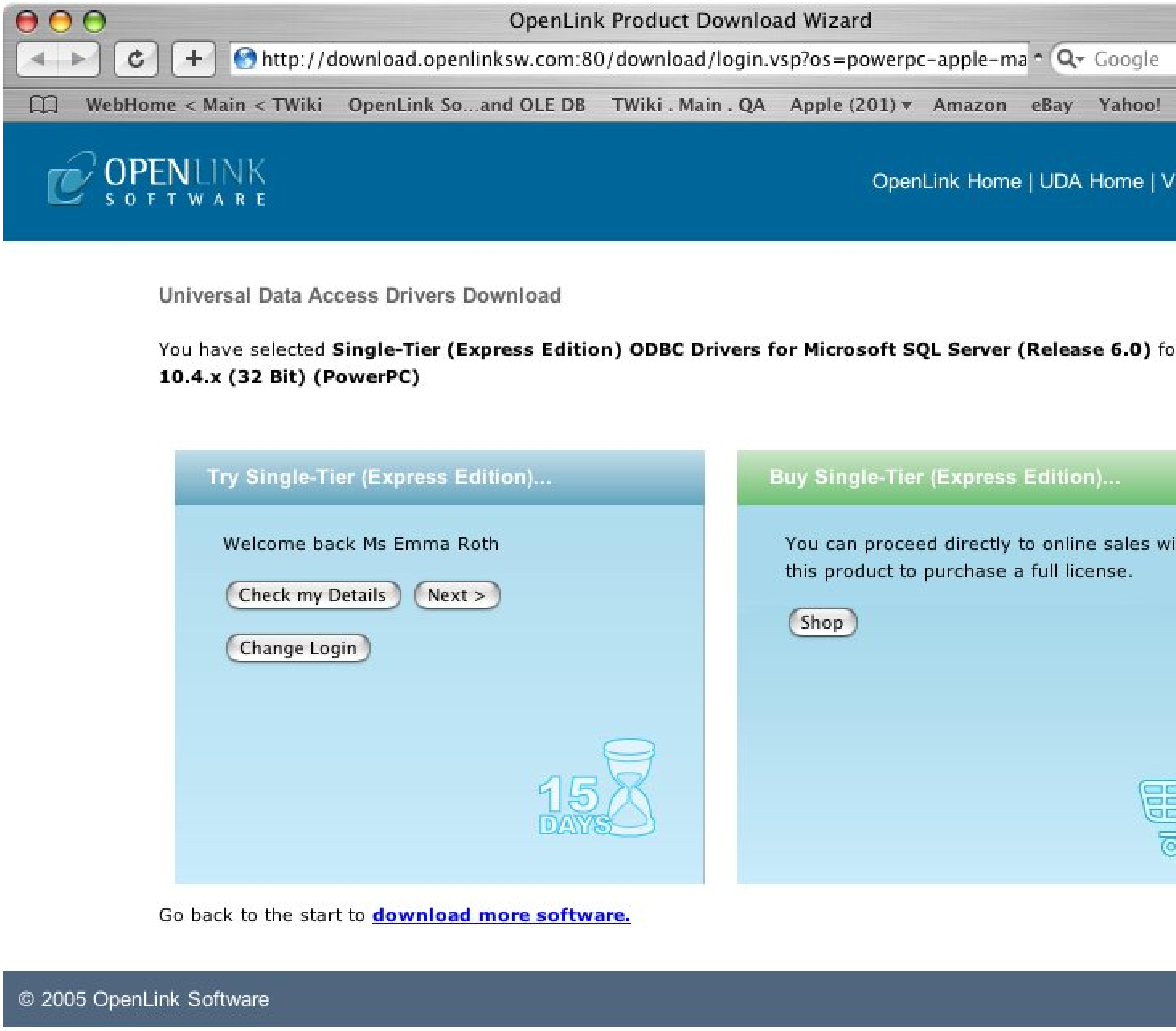
Press the 'Try or Buy' button to request a license using your browser. You will receive a license as an email attachement.

Press the 'Use existing License' button if you have already recived a license.

On the next dialog, press the 'Choose' button to select the license file for use or 'Cancel' to continue without one.

To obtain the trial license you must be a registered user on the OpenLink Web site and login with the username (e-mail address) and password for that user. Click on the 'Shop' link to visit our online shop cart to purchases a full license if required:

Figure 10.12. SQLinstall15.png



OpenLink Product Download Wizard
http://download.openlinksw.com:80/download/login.vsp?os=powerpc-apple-ma
Google
WebHome < Main < TWiki
OpenLink So...and OLE DB
TWiki . Main . QA
Apple (201)
Amazon
eBay
Yahoo!
OPENLINK SOFTWARE
OpenLink Home | UDA Home | V

Universal Data Access Drivers Download

You have selected **Single-Tier (Express Edition) ODBC Drivers for Microsoft SQL Server (Release 6.0)** fo **10.4.x (32 Bit) (PowerPC)**

Try Single-Tier (Express Edition)...

Welcome back Ms Emma Roth

Buy Single-Tier (Express Edition)...

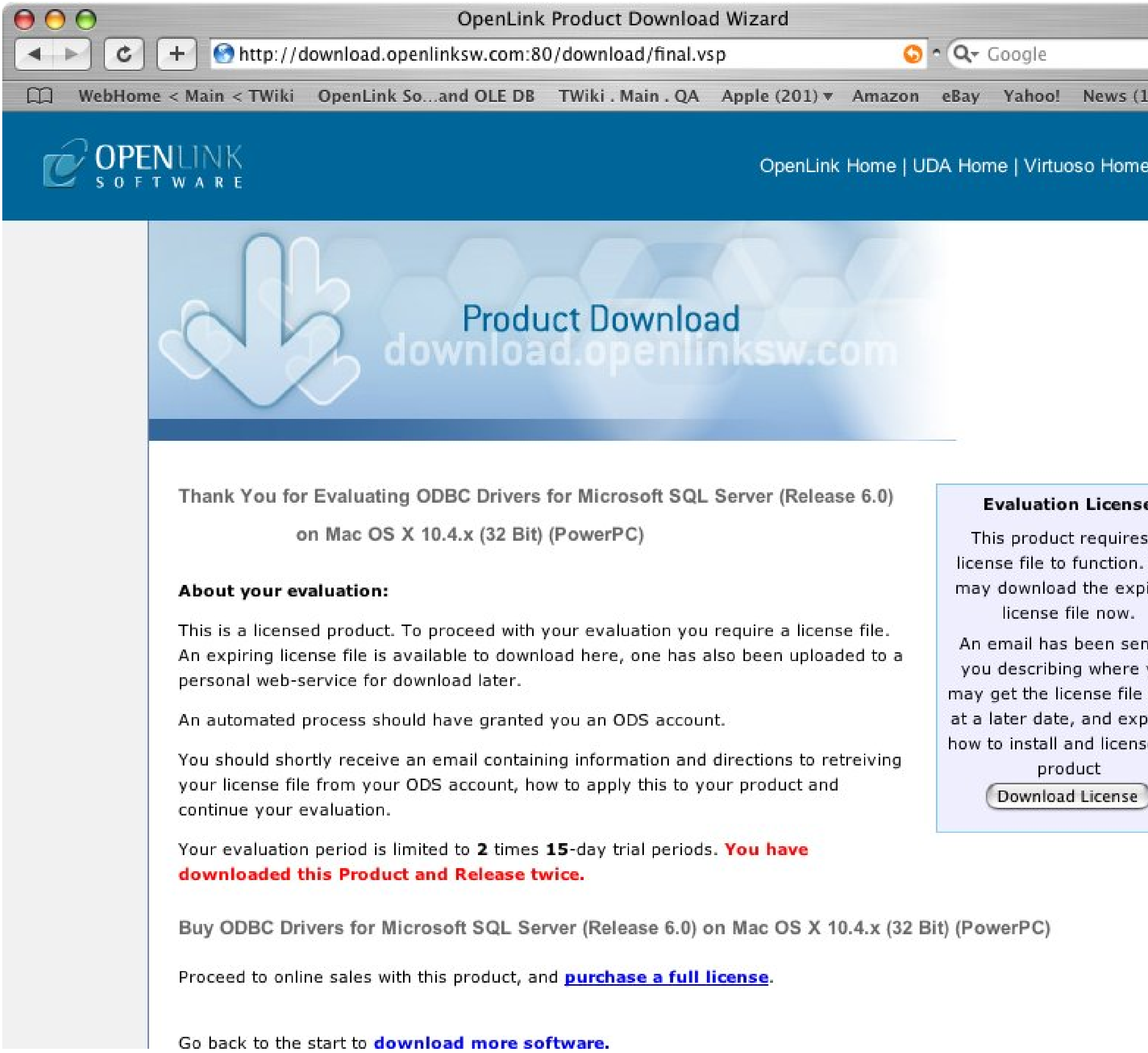
You can proceed directly to online sales wi this product to purchase a full license.

Go back to the start to **download more software.**

© 2005 OpenLink Software

Click on the 'download license' button to obtain the license file immediately and save to your desktop. Alternatively an auto e-mail will be sent to the registered users e-mail address with a link to their OpenLink Data Space (ODS) where all trial and full license files will be stored in the Briefcase for download at a later date.

Figure 10.13. SQLinstall16.png



Thank You for Evaluating ODBC Drivers for Microsoft SQL Server (Release 6.0) on Mac OS X 10.4.x (32 Bit) (PowerPC)

About your evaluation:

This is a licensed product. To proceed with your evaluation you require a license file. An expiring license file is available to download here, one has also been uploaded to a personal web-service for download later.

An automated process should have granted you an ODS account.

You should shortly receive an email containing information and directions to retreiving your license file from your ODS account, how to apply this to your product and continue your evaluation.

Your evaluation period is limited to **2** times **15**-day trial periods. **You have downloaded this Product and Release twice.**

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Evaluation License

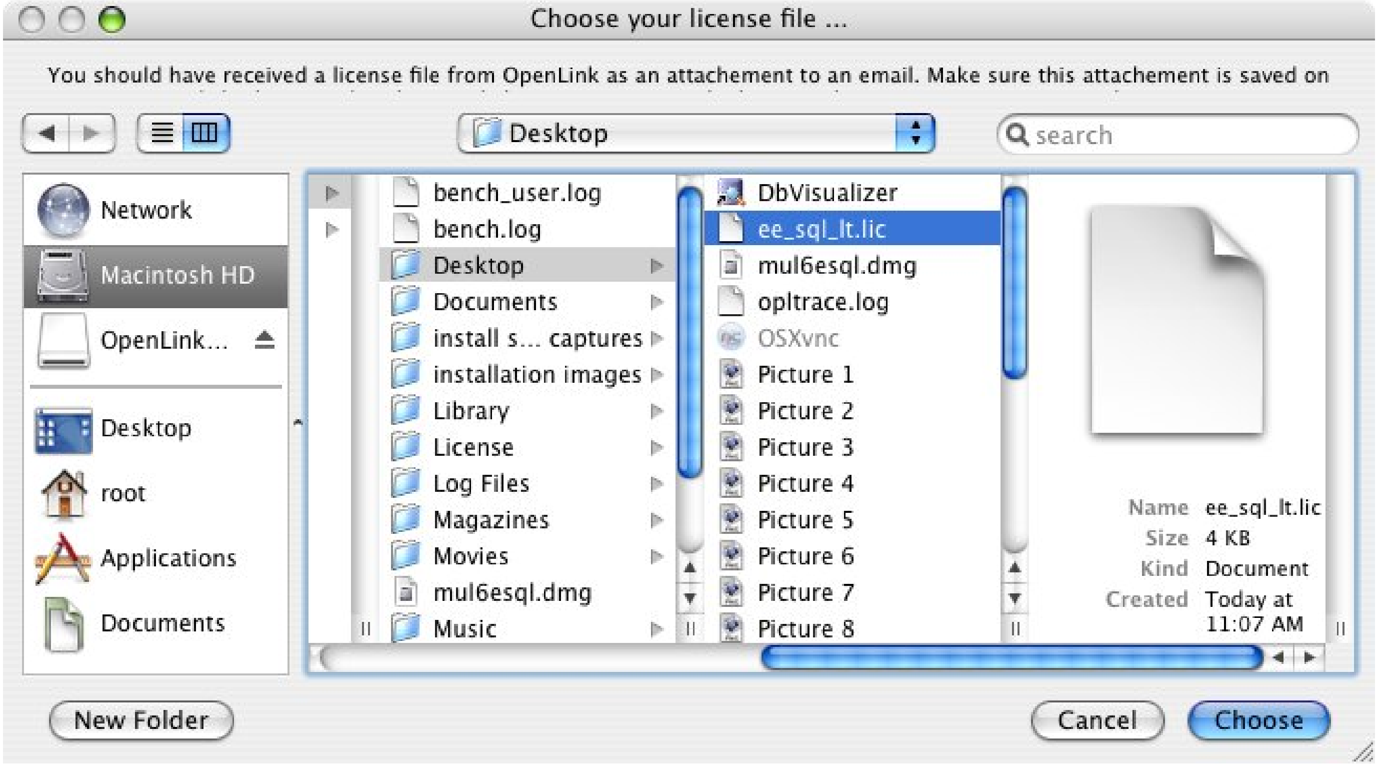
This product requires license file to function. may download the expi license file now.

An email has been sen you describing where may get the license file at a later date, and exp how to install and licens product

Download License

Select the license file to be used for the installation:

Figure 10.14. SQLinstall18.png



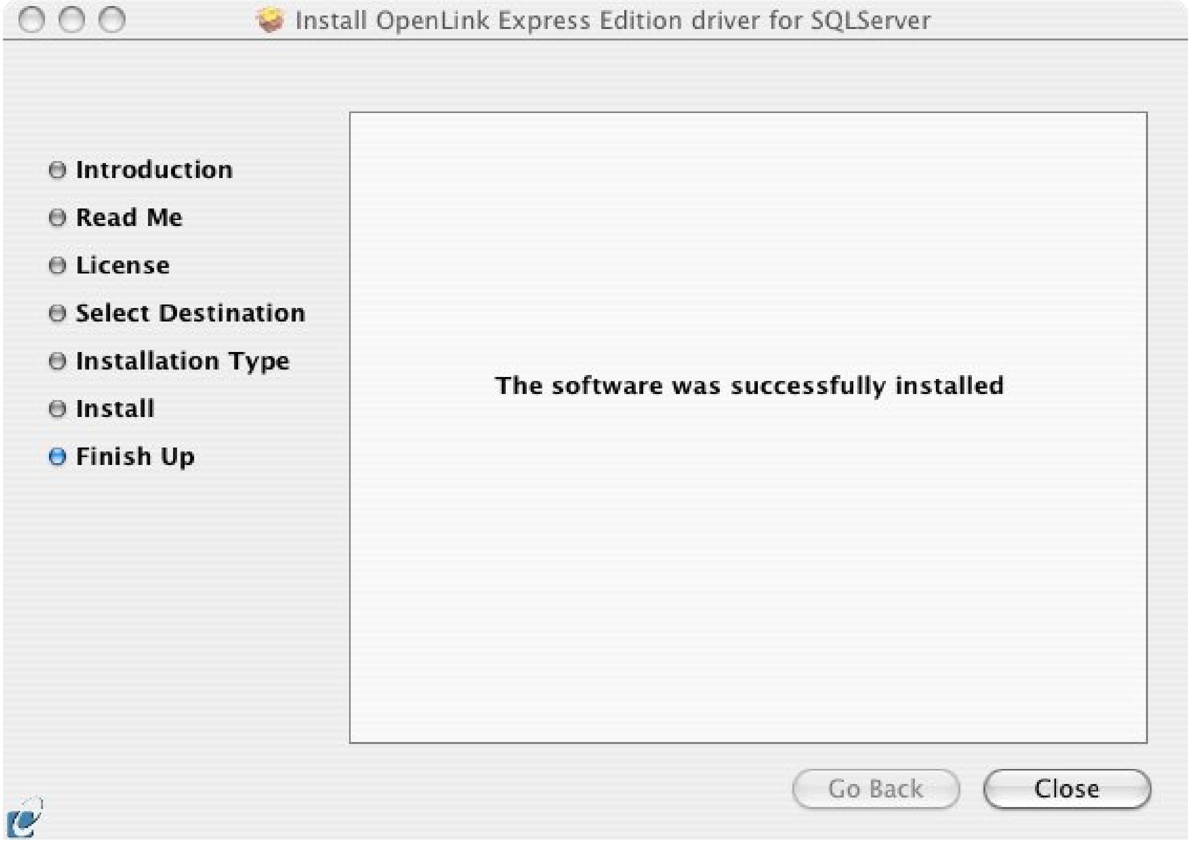
Choose your license file ...

You should have received a license file from OpenLink as an attachement to an email. Make sure this attachement is saved on

Name ee_sql_lt.lic
Size 4 KB
Kind Document
Created Today at 11:07 AM

Installation is complete:

Figure 10.15. SQLinstall19.png



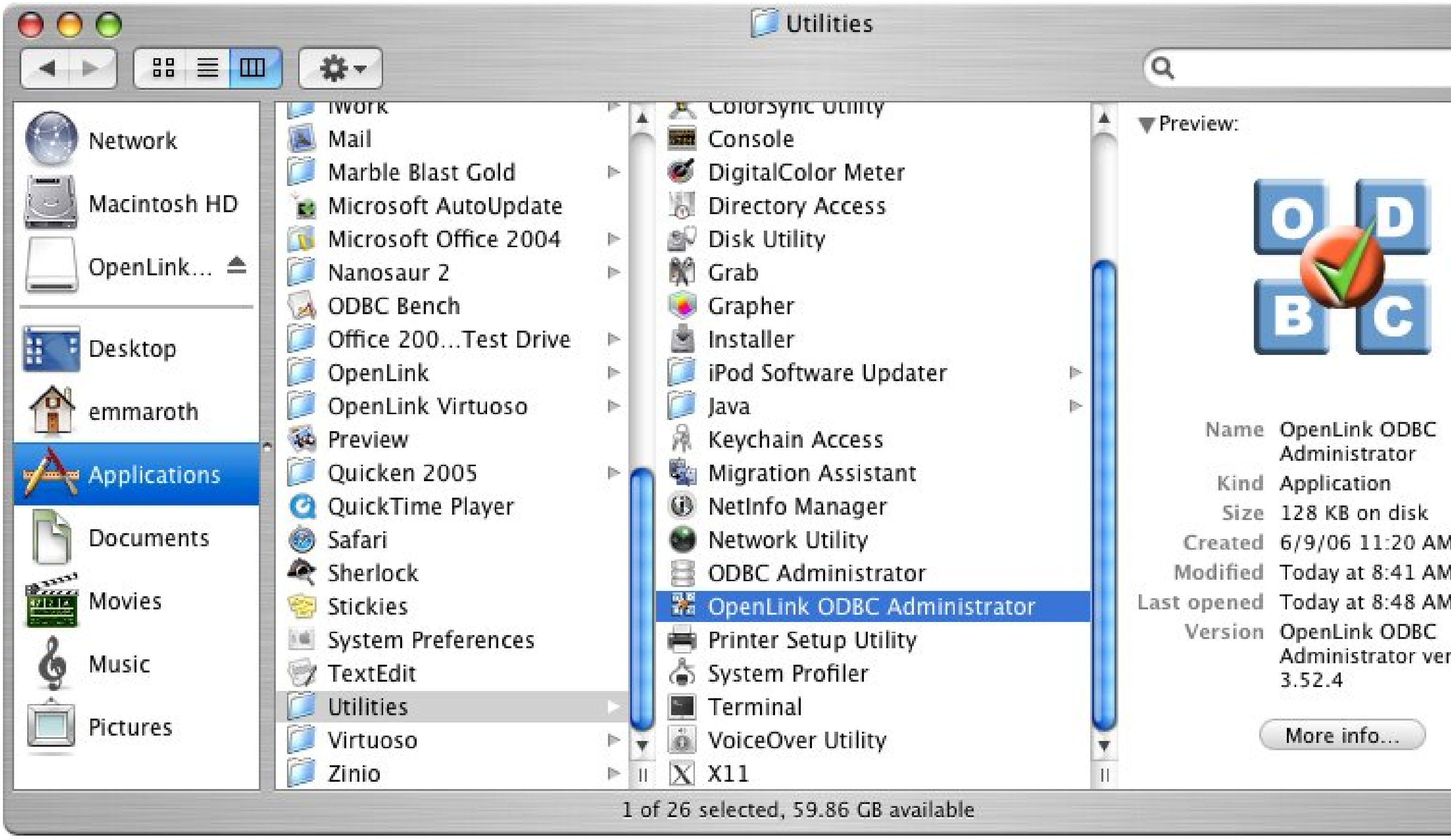
Install OpenLink Express Edition driver for SQLServer

The software was successfully installed

11.1.2 Configuration

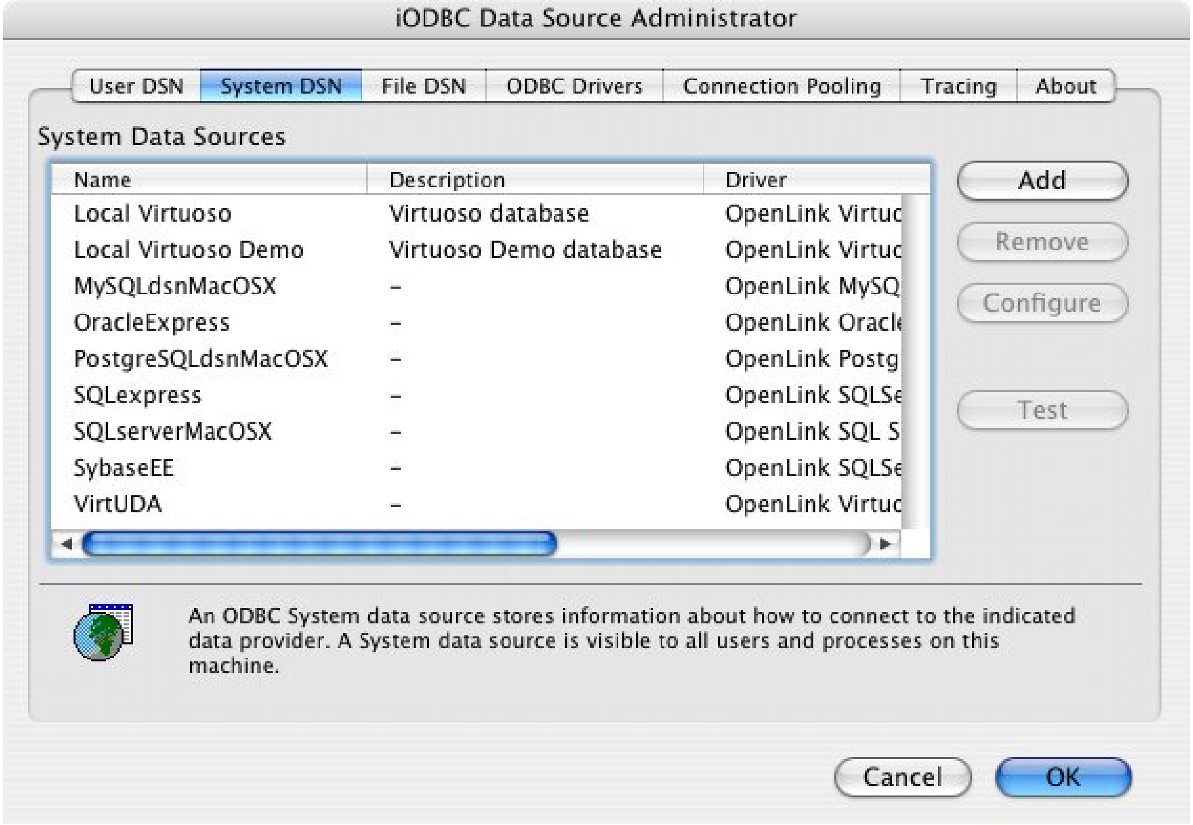
To configure an ODBC DSN, run the OpenLink iODBC Administrator located in the /Applications/iODBC folder:

Figure 10.16. ODBCadmin.png



Click on the add button to Choose the ODBC Driver the DSN should be created for:

Figure 10.17. SQLconfig1.png



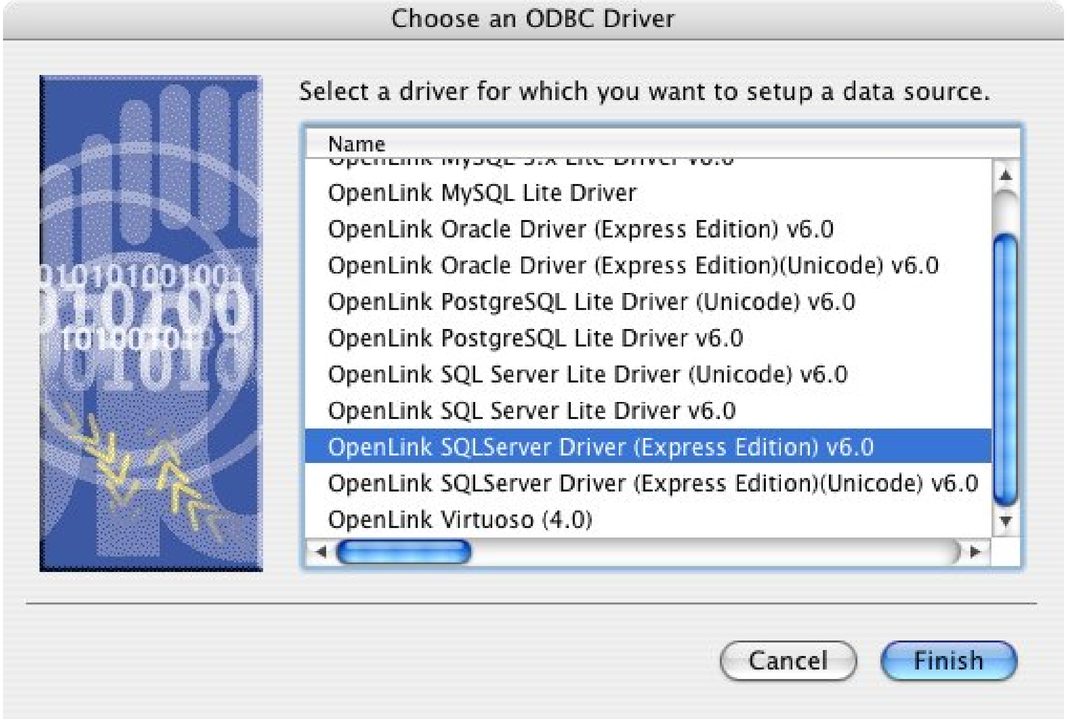
System Data Sources

Name	Description	Driver
Local Virtuoso	Virtuoso database	OpenLink Virtuo
Local Virtuoso Demo	Virtuoso Demo database	OpenLink Virtuo
MySQLdsnMacOSX	-	OpenLink MySQ
OracleExpress	-	OpenLink Oracle
PostgreSQLdsnMacOSX	-	OpenLink Postg
SQLexpress	-	OpenLink SQLSe
SQLserverMacOSX	-	OpenLink SQL S
SybaseEE	-	OpenLink SQLSe
VirtUDA	-	OpenLink Virtuo

An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users and processes on this machine.

Choose the OpenLink SQL Server Driver (Express Edition) v6.0 from the list of available drivers:

Figure 10.18. SQLconfig2.png



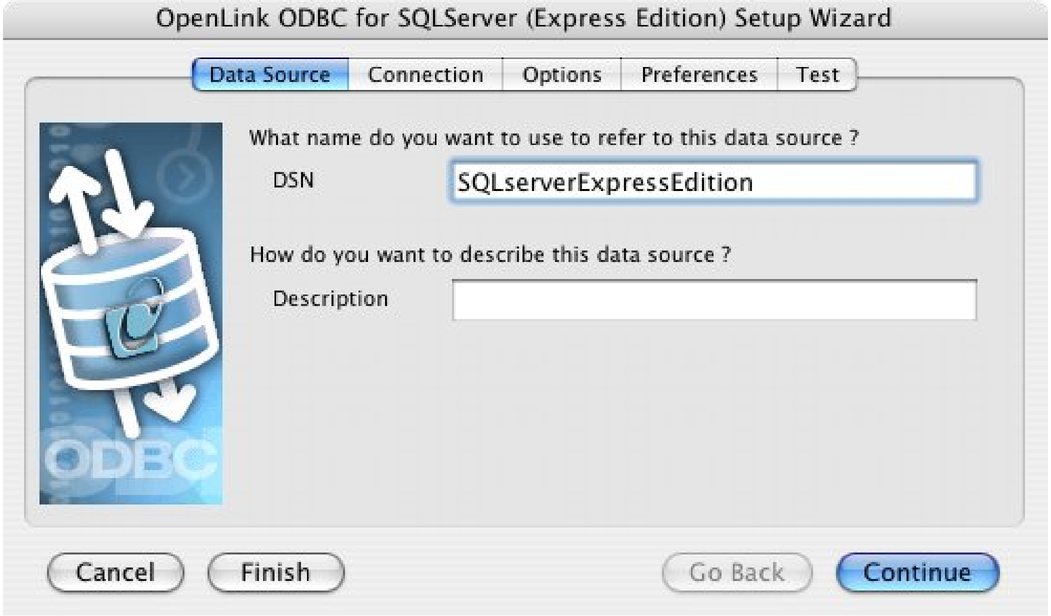
Choose an ODBC Driver

Select a driver for which you want to setup a data source.

Name
OpenLink MySQL Lite Driver
OpenLink Oracle Driver (Express Edition) v6.0
OpenLink Oracle Driver (Express Edition)(Unicode) v6.0
OpenLink PostgreSQL Lite Driver (Unicode) v6.0
OpenLink PostgreSQL Lite Driver v6.0
OpenLink SQL Server Lite Driver (Unicode) v6.0
OpenLink SQL Server Lite Driver v6.0
OpenLink SQLServer Driver (Express Edition) v6.0
OpenLink SQLServer Driver (Express Edition)(Unicode) v6.0
OpenLink Virtuoso (4.0)

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 10.19. SQLconfig3.png



OpenLink ODBC for SQLServer (Express Edition) Setup Wizard

What name do you want to use to refer to this data source ?

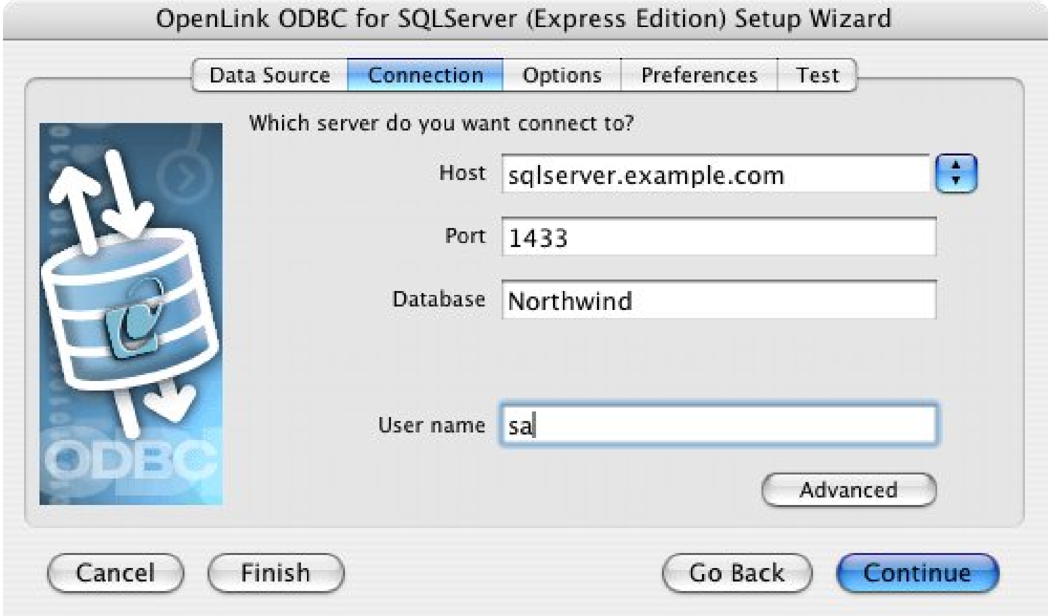
DSN: SQLserverExpressEdition

How do you want to describe this data source ?

Description:

The Connection Tab request the minimum paramters required to make a connection to the target database:

Figure 10.20. SQLconfig4.png


OpenLink ODBC for SQLServer (Express Edition) Setup Wizard

Which server do you want connect to?

Host: sqlserver.example.com

Port: 1433

Database: Northwind

User name: sa

Host: This is the fully qualified hostname, or IP address, of the machine hosting the DBMS you wish to access, e.g., dbms-server.example.com, or 192.168.155.123. Any hostname which will be resolved by your local DNS is acceptable.

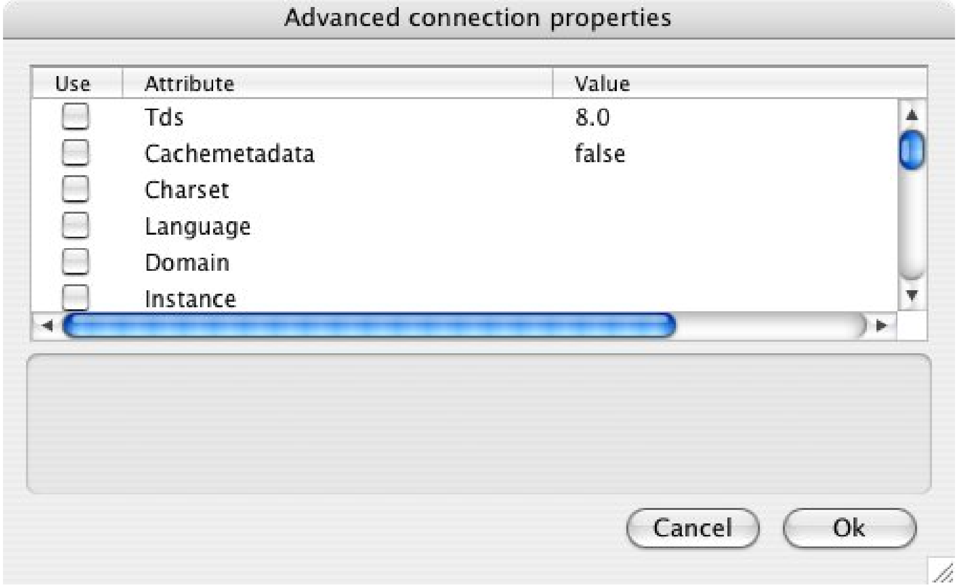
Port: This is the port on which SQL Server is listening

Database: This is the SQL Server database that you want to connect to

User Name: This is a valid user for the SQL Server Database

The advanced button displays additional optional parameters that can be configured

Figure 10.21. SQLconfig5.png


Advanced connection properties

Use	Attribute	Value
□	Tds	8.0
□	Cachemetadata	false
□	Charset	
□	Language	
□	Domain	
□	Instance	

Table 10.1.

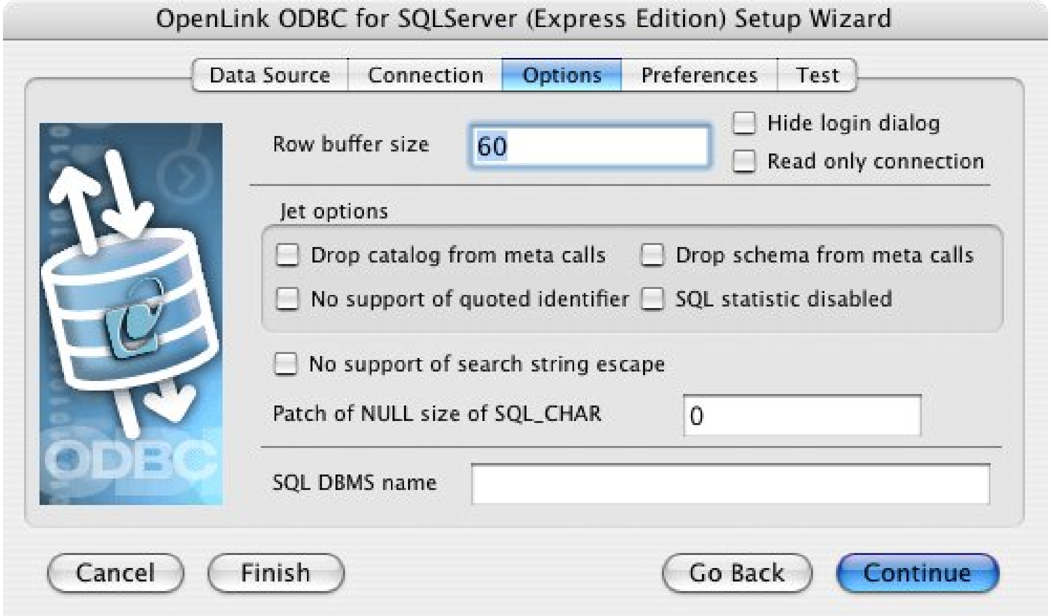
Tds	The version of TDS to be used.(default - '8.0')
Cache metadata	When used with prepareSQL=3, setting this property to true will cause the driver to cache column metadata for SELECT statements. Use with care.(default - false)
Charset	Very important setting; this determines the byte value to character mapping for CHAR/VARCHAR/TEXT values. Applies for characters from the extended set (codes 128-255). For NCHAR/NVARCHAR/NTEXT values doesn't have any effect since these are stored using Unicode. (Default - the character set the server was

	installed with.)
Language	Applies for characters from the extended set (codes 128-255). For NCHAR/NVARCHAR/NTEXT values doesn't have any effect since these are stored using Unicode.(default - the character set the server was installed with)
Domain	Specifies the Windows domain in which to authenticate. If present and the username and password are provided, it uses Windows (NTLM) authentication instead of the usual SQL Server authentication (i.e. the user and password provided are the domain user and password). This allows non-Windows clients to log in to servers which are only configured to accept Windoes authentication.
Instance	Named instance to connect to. SQL Server can run multiple so-called 'named instances' (i.e. different server instances, running on different TCP ports) on the same machine. When using Microsoft tools, selecting one of these instances is made by using '[host_name]\[instance_name]' instead of the usual '[host_name]'. You will have to split the two and use the instance name as a property.
AppName	Application name. Of no practical use, it is displayed by Enterprise Manager or Profiler associated with the connection.
ProgName	Client library name. Of no practical use, it is displayed by Enterprise Manager or Profiler associated with the connection.
Wsid	Workstation ID. Of no practical use, it is displayed by Enterprise Manager or Profiler associated with the connection.(default - the client host name)
MacAddress	Network interface card MAC address.(default - '000000000000')
SendStringParametersAsUnicode	Determines whether string parameters are sent to the SQL Server database in Unicode or in the default character encoding of the database.(default - true)
LastUpdateCount	If true only the last update count will be returned by executeUpdate(). This is useful in case you are updating or inserting into tables that have triggers (such as replicated tables); there's no way to make the difference between an update count returned by a trigger and the actual update count but the actual update count is always the last as the triggers execute first. If false all update counts are returned; use getMoreResults() to loop through them. (default - true)
PrepareSQL	This parameter specifies the mechanism used for Prepared Statements.(default - 3 for SQL Server)
PacketSize	The network packet size (a multiple of 512).(default - 4096 for TDS 7.0/8.0; 512 for TDS 4.2/5.0)
TcpNoDelay	true to enable TCP_NODELAY on the socket; false to disable it.(default - true)
LobBuffer	The amount of LOB data to buffer in memory before caching to disk. The value is in bytes for Blob data and chars for Clob data.(default - 32768)
MaxStatements	The number of statement prepares each connection should cache. A value of 0 will disable statement caching.(default - 500)
LoginTimeout	The amount of time to wait (in seconds) for a successful connection before timing out. If namedPipe is true and loginTimeout is non-zero, the value of loginTimeout is used for the retry timeout when 'All pipe instances are busy' error messages are received while attempting to connect to the server. If namedPipe is true and loginTimeout is zero (the default), a value of 20 seconds is used for the named pipe retry timeout. (default - 0)
SocketTimeout	The amount of time to wait (in seconds) for network activity before timing out.Use with care! If a non zero value is supplied this must be greater than the maximum time that the server will take to answer any query. Once the timeout value is exceeded the network connection will be closed. This parameter may be useful for detecting dead network connections in a pooled environment.(default - 0)
NamedPipe	When set to true, named pipe communication is used to connect to the database instead of TCP/IP sockets. When the os.name system property starts with 'windows' (case-insensitive), named pipes (both local and remote) are accessed through the Windows filesystem by opening a RandomAccessFile to the path. When the SQL Server and the client are on the same machine, a named pipe will usually have better performance than TCP/IP sockets since the network layer is eliminated.
Ssl	Specifies if and how to use SSL for secure communication.(default - off)

BatchSize	Controls how many statements are sent to the server in a batch. The actual batch is broken up into pieces this large that are sent separately.(default - 0[unlimited] for SQL Server)
UseCursors	Instructs the driver to use server side cursors instead of direct selects (AKA firehose cursors) for forward-only read-only result sets (with other types of result sets server- or client-side cursors are always used).(default - false)
BufferMaxMemory	Controls the global buffer memory limit for all connections (in kilobytes). When the amount of buffered server response packets reaches this limit additional packets are buffered to disk; there is however one exception: each Statement gets to buffer at least '[bufferMinPackets]' to memory before this limit is enforced. This means that this limit can and will usually be exceeded.(default - 1024)
BufferMinPackets	Controls the minimum number of packets per statement to buffer to memory. Each Statement will buffer at least this many packets before being forced to use a temporary file if the [bufferMaxMemory] is reached, to ensure good performance even when one Statement caches a very large amount of data.(default - 8)
UseLOBs	Controls whether large types (IMAGE and TEXT/NTEXT) should be mapped by default (when using getObject()) to LOBs . The default type constant returned is also controlled by this property: BLOB for IMAGE and CLOB for TEXT/NTEXT when true, LONGVARBINARY for IMAGE and LONGVARCHAR for TEXT/NTEXT when false.(default - true)

As indicated above the paramters of the options and preferences tabs are not required for a basic connection:

Figure 10.22. SQLconfig6.png



OpenLink ODBC for SQLServer (Express Edition) Setup Wizard

Row buffer size: 60

□ Hide login dialog

□ Read only connection

Jet options

□ Drop catalog from meta calls

□ Drop schema from meta calls

□ No support of quoted identifier

□ SQL statistic disabled

□ No support of search string escape

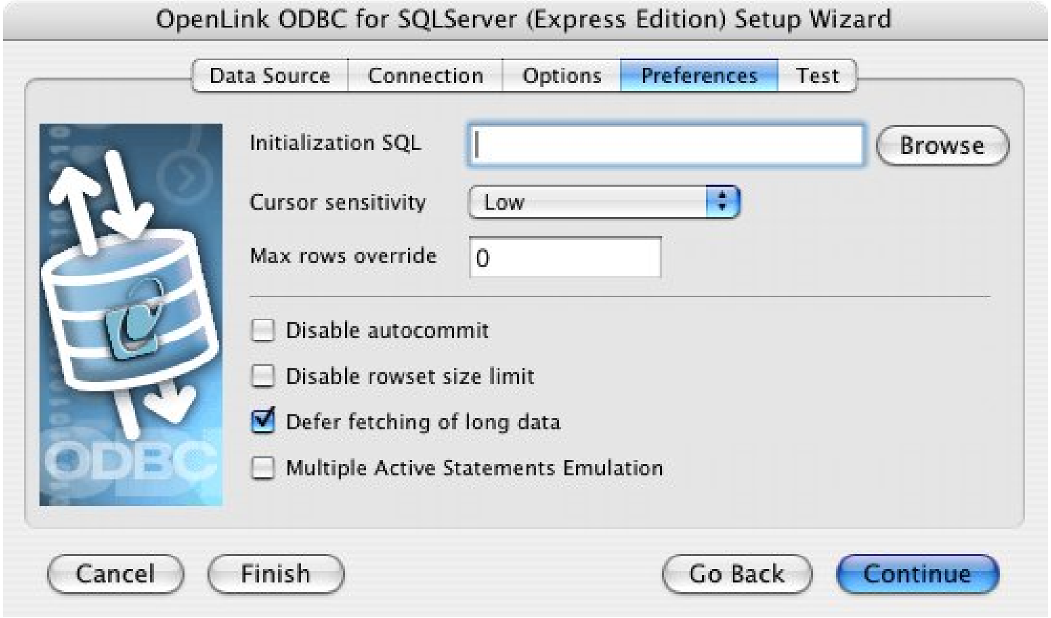
Patch of NULL size of SQL_CHAR: 0

SQL DBMS name:

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.
- *Hide Login Dialog* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC-compliant application.
- *Read Only connection* - Specify whether the connection is to be read-only. Make sure the checkbox is unchecked to request a read/write connection.
- *Drop Catalog from Meta calls* - Enable this option to have the catalog name not appear for tables, views and procedures when requesting database metadata.
- *Drop Schema from Meta calls* - Enable this option to have the schema-name not appear for tables, views and procedures when requesting database metadata.
- *SQLStatistics disabled* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table (e.g. what indexes there are on it).
- *No support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if DBMS doesn't support quoted SQL such as select * from "account"

- *No support of search string escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if DBMS doesn't support SQL escape patterns.
- *Patch of NULL size of SQL_CHAR* - If set this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0 the driver uses the size returned by the database.
- *SQL_DBMS Name* - Manually override the SQLGetInfo (SQL_DBMS_NAME) response returned by the driver. This is known to be required for products like Microsoft InfoPath for which the return the value should be "SQL Server".

Figure 10.23. SQLconfig7.png



Initialization SQL

Cursor sensitivity: Low

Max rows override: 0

□ Disable autocommit

□ Disable rowset size limit

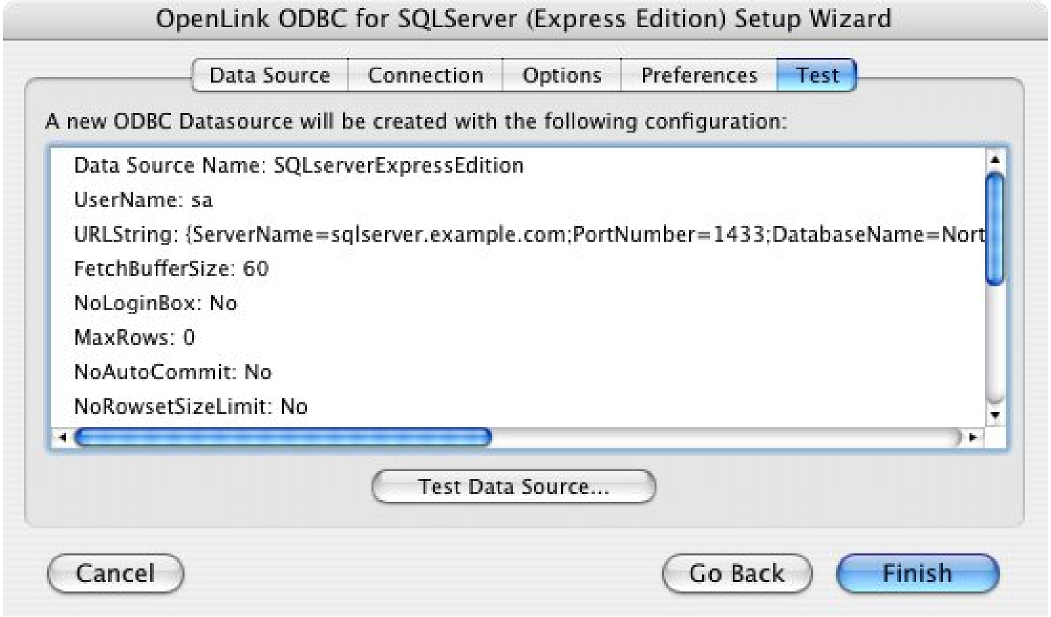
☑ Defer fetching of long data

□ Multiple Active Statements Emulation

- *Initialization SQL* - Lets you specify a file containing SQL statements that will be run against the database upon connection, automatically.
- *Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows don't appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate script for the target database.
- *MaxRows Override* - Allows you to define a limit on the maximum number of rows to returned from a query. The default value of 0 means no limit.
- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Lite Driver. The default mode is AutoCommit mode (box unchecked).
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset is generated from an erroneous query is very large. The limit is normally never reached.
- *Defer fetching of long data* - Defer fetching of LONG (BINARY, BLOB etc.) data unless explicitly requested in query. This provides significant performance increase when fields in query does not include LONG data fields.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Click on the 'Test Data Source' button to make a connection to the database to verify connectivity:

Figure 10.24. SQLconfig8.png



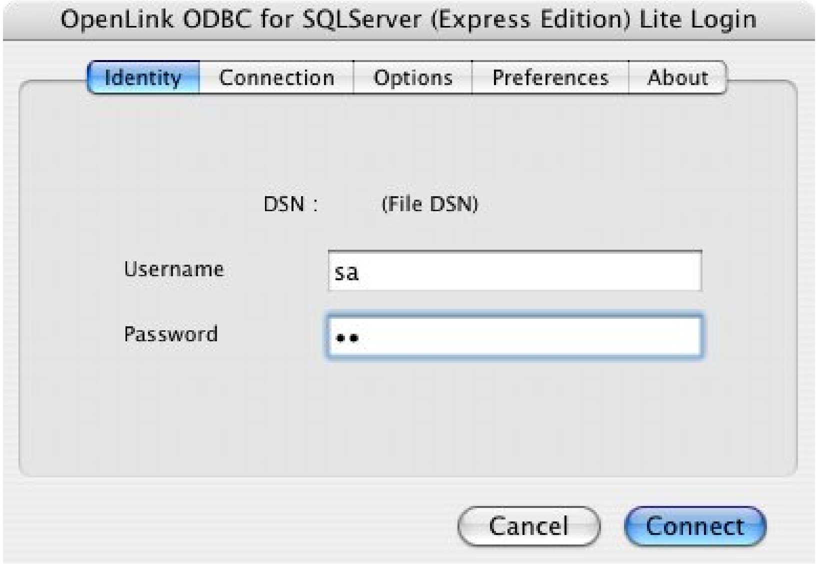
OpenLink ODBC for SQLServer (Express Edition) Setup Wizard

A new ODBC Datasource will be created with the following configuration:

Data Source Name: SQLserverExpressEdition
UserName: sa
URLString: {ServerName=sqlserver.example.com;PortNumber=1433;DatabaseName=Nort
FetchBufferSize: 60
NoLoginBox: No
MaxRows: 0
NoAutoCommit: No
NoRowsetSizeLimit: No

Enter a vaild username and pasword for the database:

Figure 10.25. SQLconfig9.png



OpenLink ODBC for SQLServer (Express Edition) Lite Login

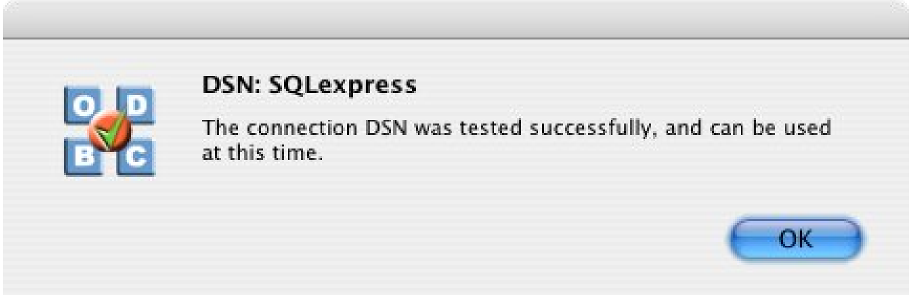
DSN : (File DSN)

Username sa

Password ••

A successful connection to the database has been made:

Figure 10.26. SQLsuccess.png



DSN: SQLexpress

The connection DSN was tested successfully, and can be used at this time.

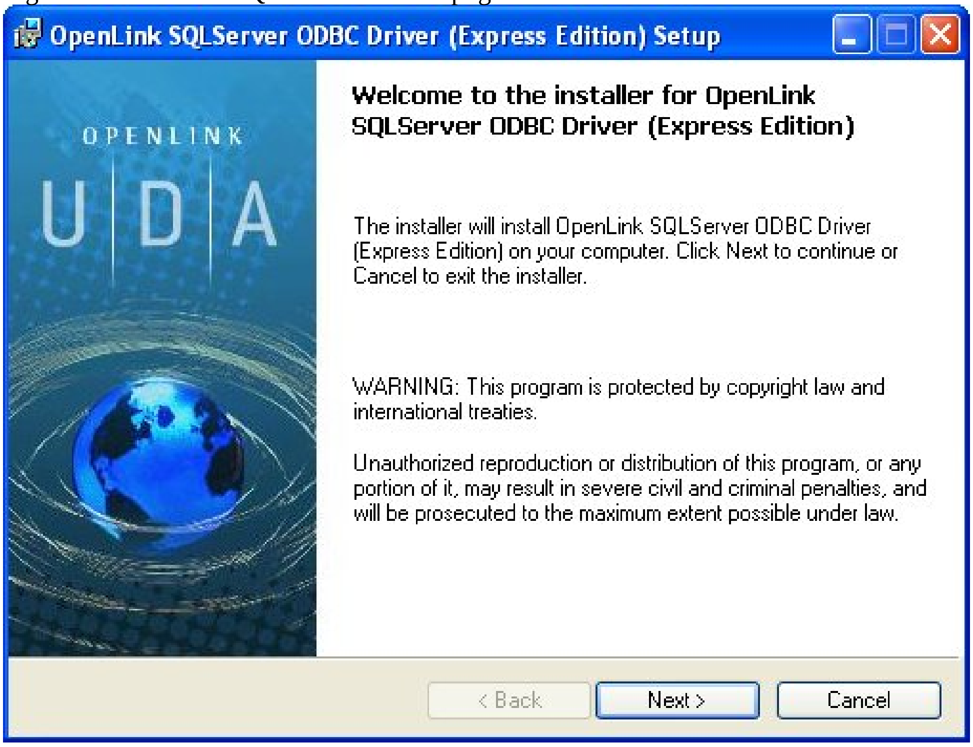
11.2 OpenLink ODBC Driver for SQL Server (Express Editon) for Windows

11.2.1 Installation

The OpenLink ODBCDriver for Microsoft SQLServer (Express Edition) is distributed as a Windows MSI installer. Simply double click on the installer 'ntl6esql.msi' to commence the installation.

Installer Welcome Dialog for the OpenLink ODBCDriver for Microsoft SQLServer(Express Edition):

Figure 10.27. EEWinSQLServerScreen1i.png



Welcome to the installer for OpenLink SQLServer ODBC Driver (Express Edition)

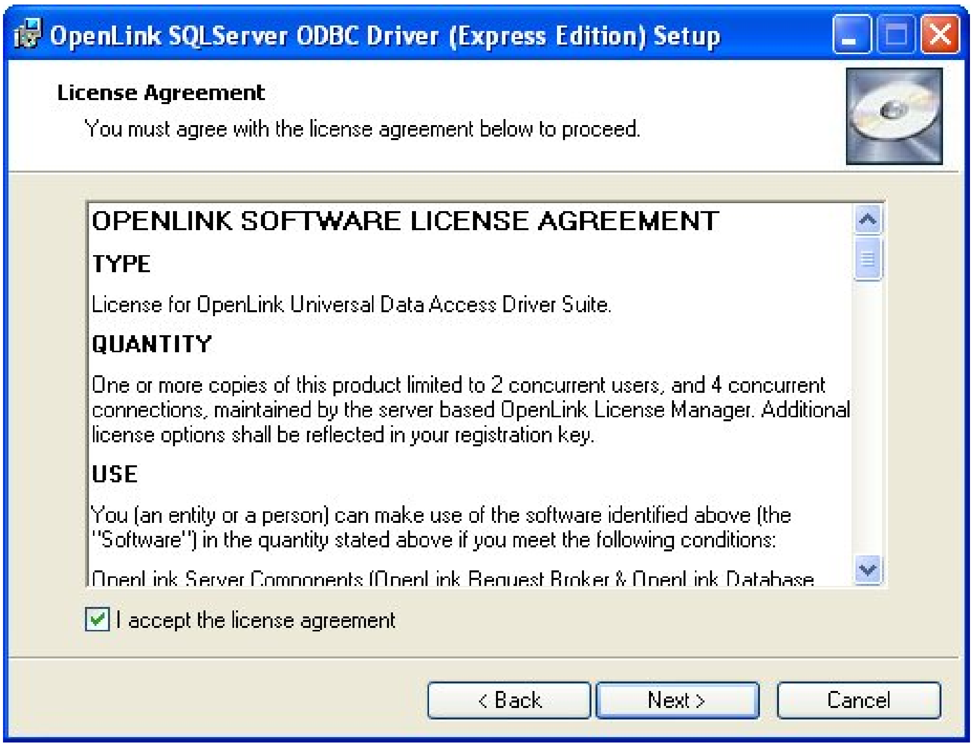
The installer will install OpenLink SQLServer ODBC Driver (Express Edition) on your computer. Click Next to continue or Cancel to exit the installer.

WARNING: This program is protected by copyright law and international treaties.

Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.

Please read the software license agreement and accept before continuing your installation:

Figure 10.28. EEWinSQLServerScreen3i.png



OpenLink SQLServer ODBC Driver (Express Edition) Setup

License Agreement

You must agree with the license agreement below to proceed.

OPENLINK SOFTWARE LICENSE AGREEMENT

TYPE

License for OpenLink Universal Data Access Driver Suite.

QUANTITY

One or more copies of this product limited to 2 concurrent users, and 4 concurrent connections, maintained by the server based OpenLink License Manager. Additional license options shall be reflected in your registration key.

USE

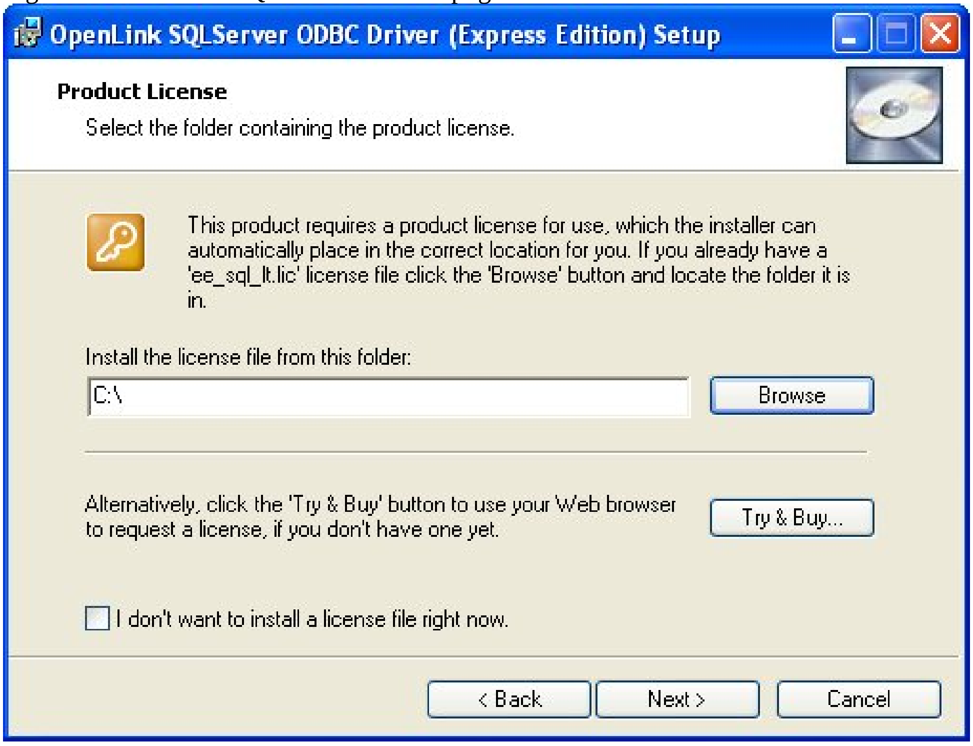
You (an entity or a person) can make use of the software identified above (the "Software") in the quantity stated above if you meet the following conditions:

OpenLink Server Components (OpenLink Request Broker & OpenLink Database

☑ I accept the license agreement

Before installation, you will be prompted for a license file. If a license file already exists on the machine, then select the 'use exisiting file' option. A trial (try) or full (buy) license can be obtained by selecting the 'try and buy' option which loads OpenLink's online try and buy web page:

Figure 10.29. EEWinSQLServerScreen4i.png



OpenLink SQLServer ODBC Driver (Express Edition) Setup

Product License

Select the folder containing the product license.

This product requires a product license for use, which the installer can automatically place in the correct location for you. If you already have a 'ee_sql_lt.lic' license file click the 'Browse' button and locate the folder it is in.

Install the license file from this folder:

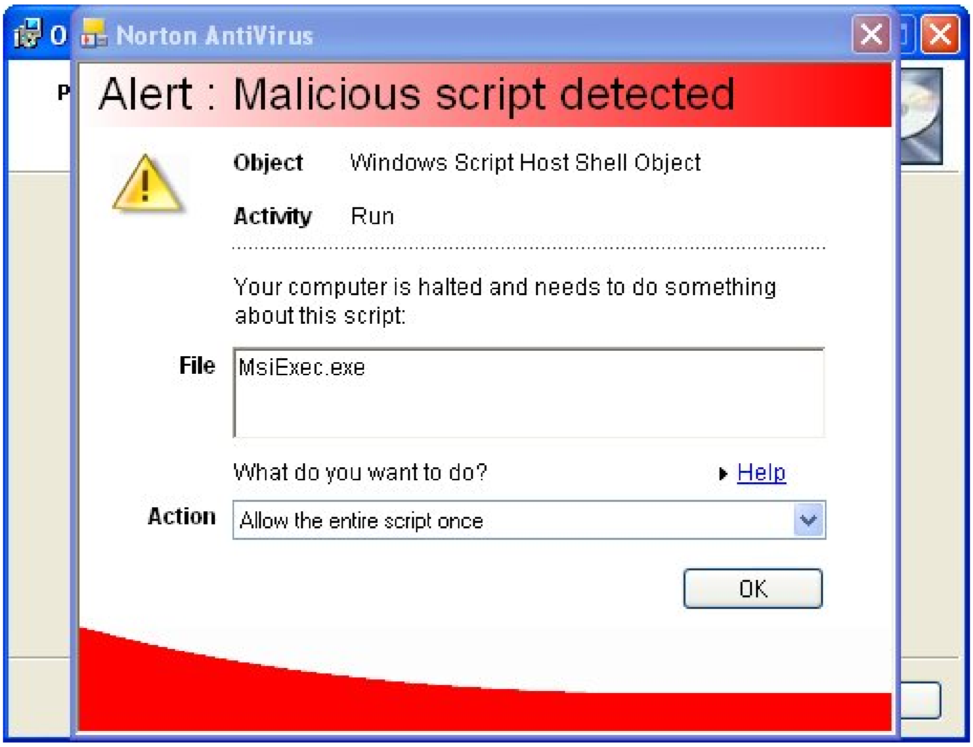
C:\

Alternatively, click the 'Try & Buy' button to use your Web browser to request a license, if you don't have one yet.

□ I don't want to install a license file right now.

If you are using Nortons Anti-Virus Software, you may encouter this warning message. Choose the Allow the Entire Script once option:

Figure 10.30. EEWinSQLServerScreen5i.png



Norton AntiVirus

Alert : Malicious script detected

Object Windows Script Host Shell Object

Activity Run

Your computer is halted and needs to do something about this script:

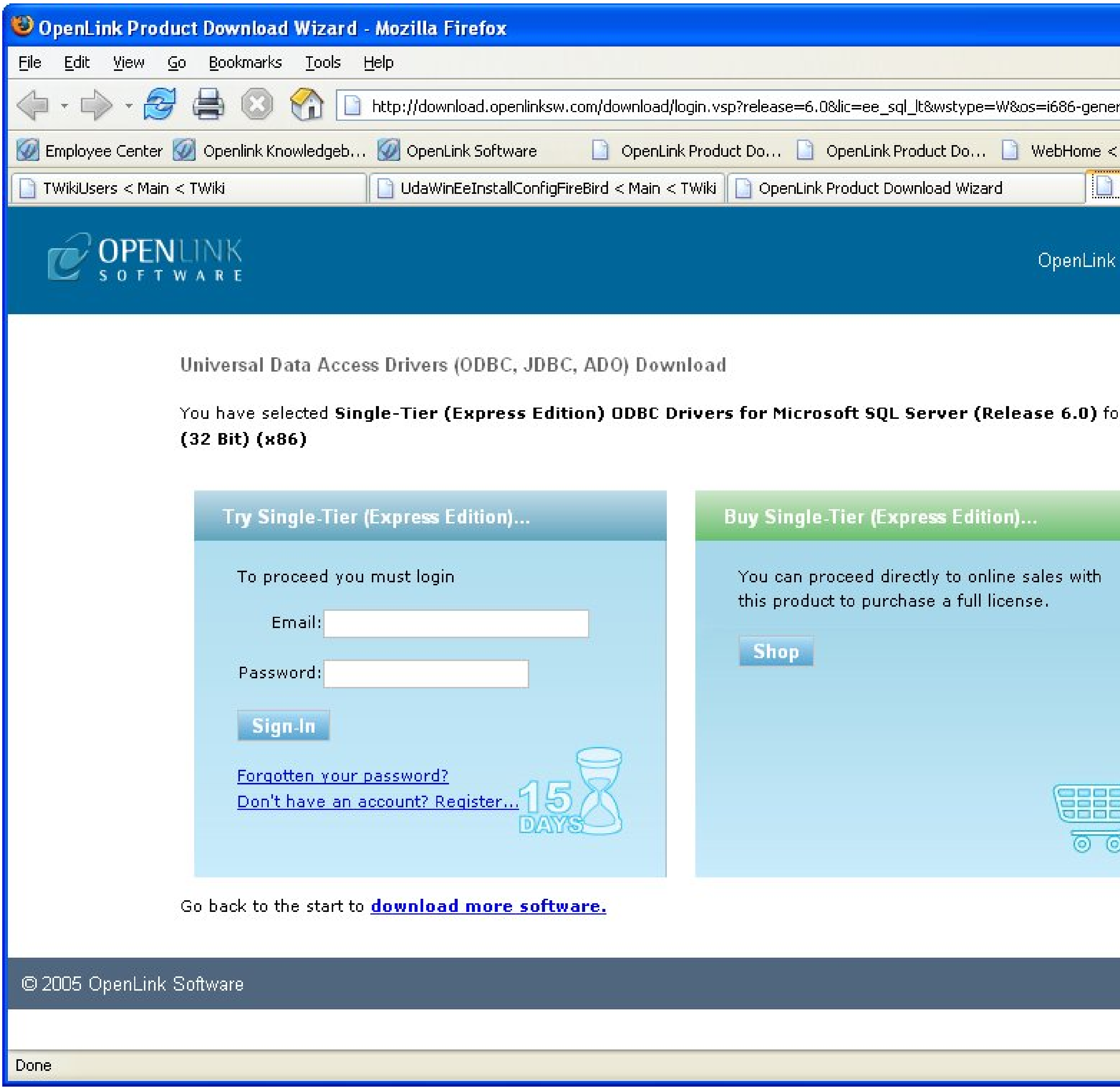
File MsiExec.exe

What do you want to do?

Action Allow the entire script once

To obtain the trial license, you must be a registered user on the OpenLinkWeb site and login with your username (e-mail address) and password for that user. Click on the 'Shop' link to visit Openlink's online shop cart to purchase a full license, if required:

Figure 10.31. EEWinSQLServerScreen6i.png



OpenLink Product Download Wizard - Mozilla Firefox
File Edit View Go Bookmarks Tools Help
http://download.openlinksw.com/download/login.vsp?release=6.0&lic=ee_sql_lt&wstype=W&os=i686-gener
Employee Center
Openlink Knowledgeb...
OpenLink Software
OpenLink Product Do...
OpenLink Product Do...
WebHome <
TWikiUsers < Main < TWiki
UdaWinEeInstallConfigFireBird < Main < TWiki
OpenLink Product Download Wizard
OPENLINK SOFTWARE
OpenLink
15 DAYS
Done

Universal Data Access Drivers (ODBC, JDBC, ADO) Download

You have selected **Single-Tier (Express Edition) ODBC Drivers for Microsoft SQL Server (Release 6.0)** fo **(32 Bit) (x86)**

Try Single-Tier (Express Edition)...

To proceed you must login

Email:

Password:

Sign-In

Forgotten your password?
Don't have an account? Register...

Buy Single-Tier (Express Edition)...

You can proceed directly to online sales with this product to purchase a full license.

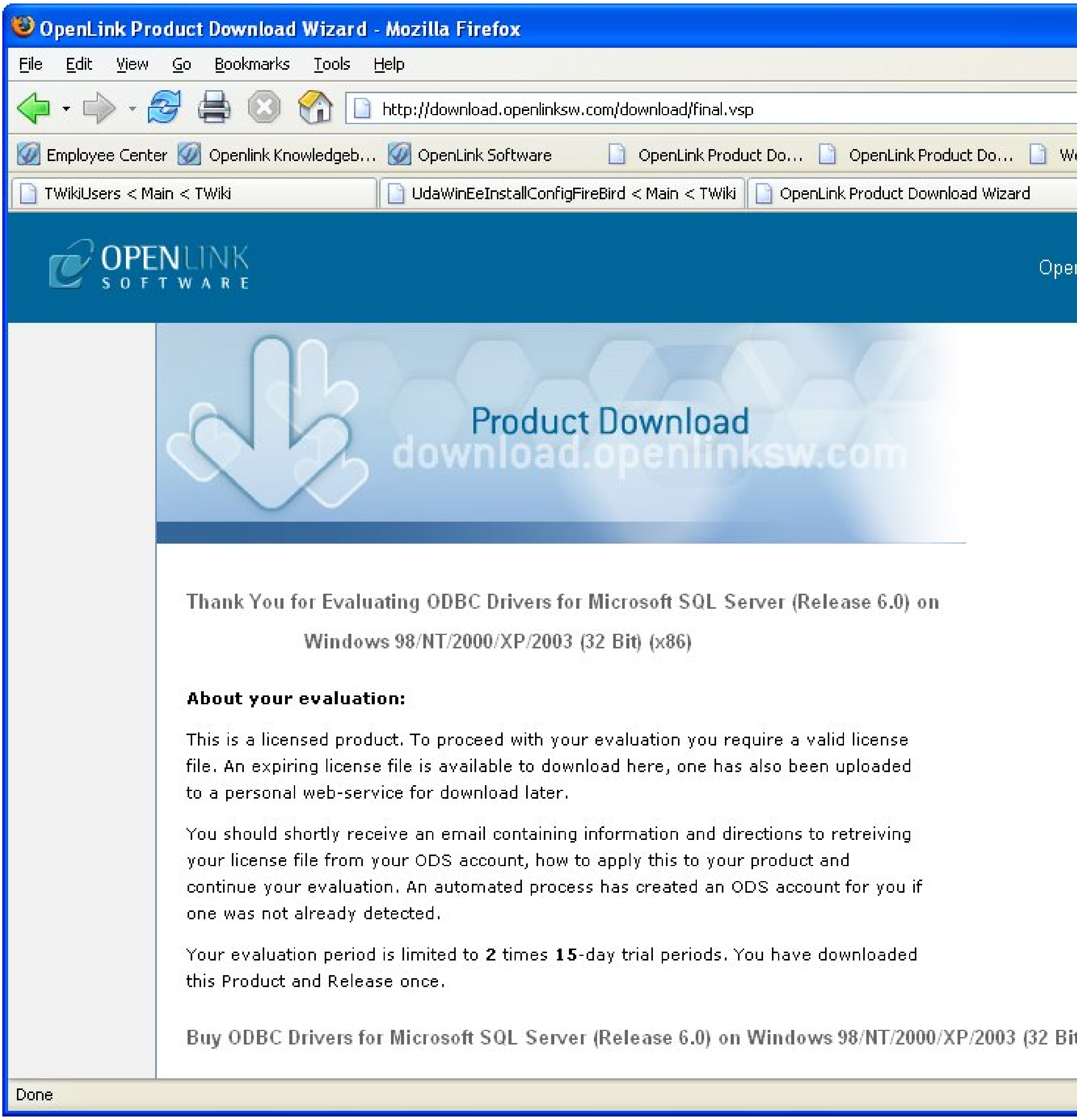
Shop

Go back to the start to **download more software.**

© 2005 OpenLink Software

Click on the 'download license' button to immediatly obtain the license file and save it to your desktop. Alternatively, an auto-generated e-mail will be sent to your registered user's e-mail address with a link to your OpenLinkData Space (ODS), which contains all trial and full licenses in a Briefcase for download at a later date.

Figure 10.32. EEWinSQLServerScreen7i.png



OpenLink Product Download Wizard - Mozilla Firefox
File Edit View Go Bookmarks Tools Help
http://download.openlinksw.com/download/final.vsp
Employee Center
Openlink Knowledgeb...
OpenLink Software
OpenLink Product Do...
OpenLink Product Do...
TWikiUsers < Main < TWiki
UdaWinEeInstallConfigFireBird < Main < TWiki
OpenLink Product Download Wizard
OPENLINK SOFTWARE
Product Download
download.openlinksw.com
Done

Thank You for Evaluating ODBC Drivers for Microsoft SQL Server (Release 6.0) on Windows 98/NT/2000/XP/2003 (32 Bit) (x86)

About your evaluation:

This is a licensed product. To proceed with your evaluation you require a valid license file. An expiring license file is available to download here, one has also been uploaded to a personal web-service for download later.

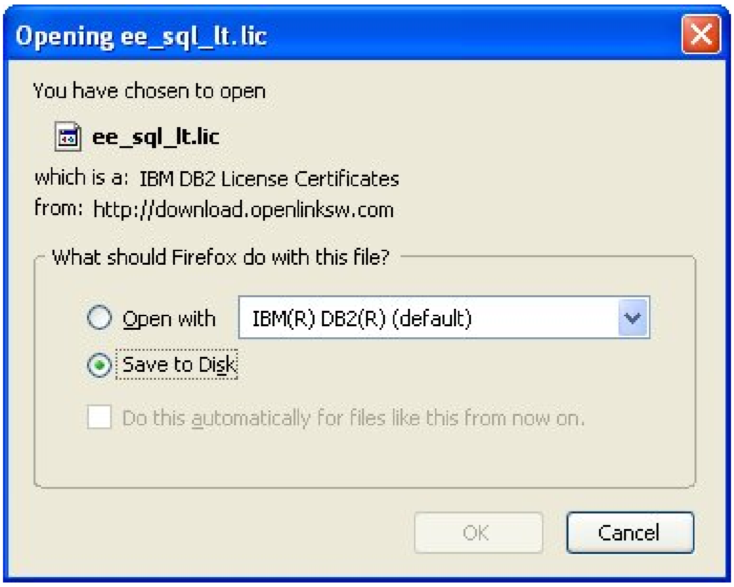
You should shortly receive an email containing information and directions to retreiving your license file from your ODS account, how to apply this to your product and continue your evaluation. An automated process has created an ODS account for you if one was not already detected.

Your evaluation period is limited to **2** times **15**-day trial periods. You have downloaded this Product and Release once.

Buy ODBC Drivers for Microsoft SQL Server (Release 6.0) on Windows 98/NT/2000/XP/2003 (32 Bit

You will want to save the file to disk:

Figure 10.33. EEWinSQLServerScreen8i.png



Opening ee_sql_lt.lic

You have chosen to open

ee_sql_lt.lic

which is a: IBM DB2 License Certificates

from: http://download.openlinksw.com

What should Firefox do with this file?

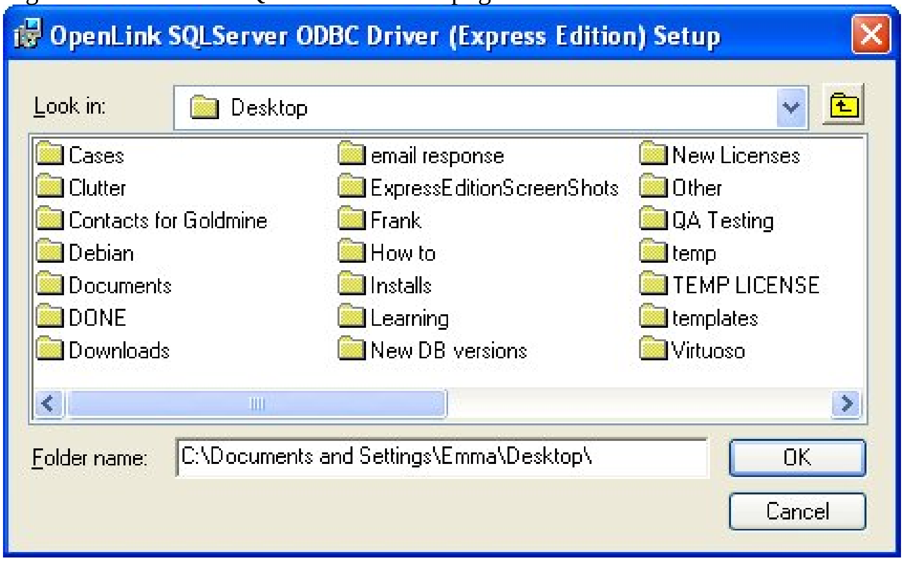
○ Open with IBM(R) DB2(R) (default)

● Save to Disk

□ Do this automatically for files like this from now on.

Select the license file to be used for the installation:

Figure 10.34. EEWinSQLServerScreen9i.png



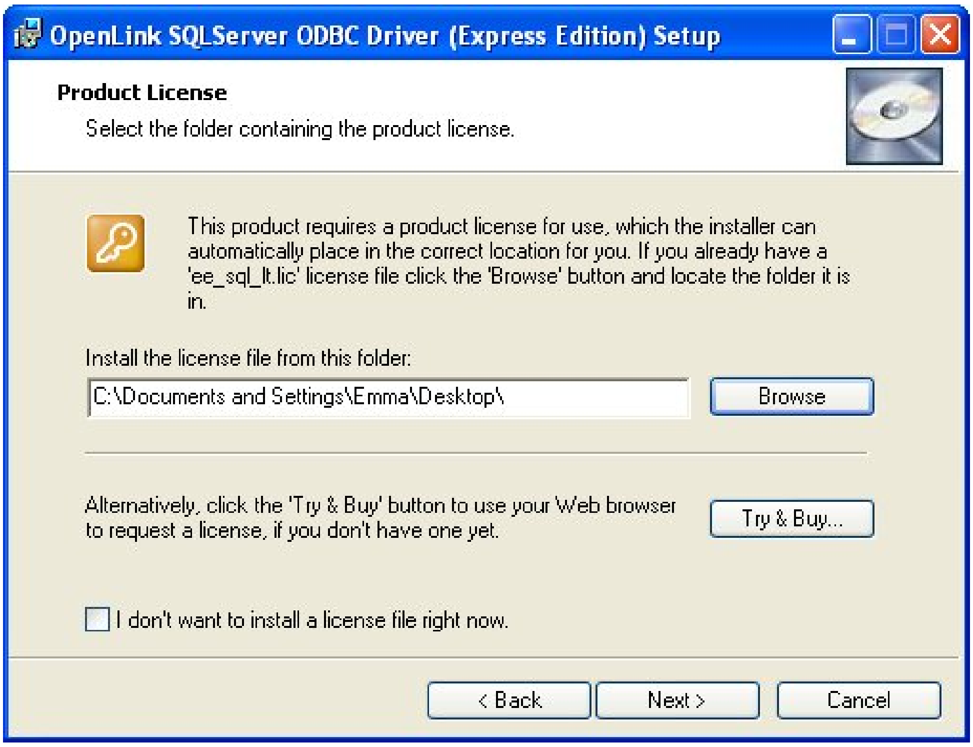
OpenLink SQLServer ODBC Driver (Express Edition) Setup

Look in: Desktop

Folder name: C:\Documents and Settings\Emma\Desktop\

Make sure that the path to where the license file is located is correct before selecting Next:

Figure 10.35. EEWinSQLServerScreen10i.png



OpenLink SQLServer ODBC Driver (Express Edition) Setup

Product License

Select the folder containing the product license.

This product requires a product license for use, which the installer can automatically place in the correct location for you. If you already have a 'ee_sql_lt.lic' license file click the 'Browse' button and locate the folder it is in.

Install the license file from this folder:

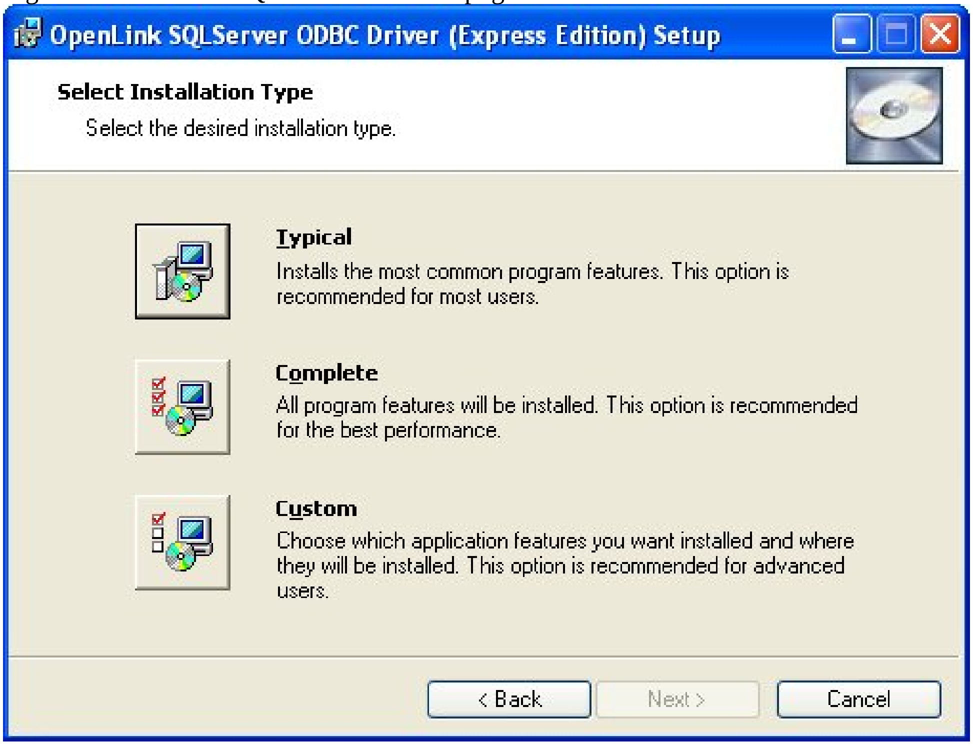
C:\Documents and Settings\Emma\Desktop\

Alternatively, click the 'Try & Buy' button to use your Web browser to request a license, if you don't have one yet.

□ I don't want to install a license file right now.

Choose to perform a custom, typical, or complete installation of the driver:

Figure 10.36. EEWinSQLServerScreen11i.png



OpenLink SQLServer ODBC Driver (Express Edition) Setup

Select Installation Type

Select the desired installation type.

Typical

Installs the most common program features. This option is recommended for most users.

Complete

All program features will be installed. This option is recommended for the best performance.

Custom

Choose which application features you want installed and where they will be installed. This option is recommended for advanced users.

With a custom installation, you can decide the directory where the installation will reside:

Figure 10.37. EEWinSQLSErverCustom1.png

Select the features to be installed:

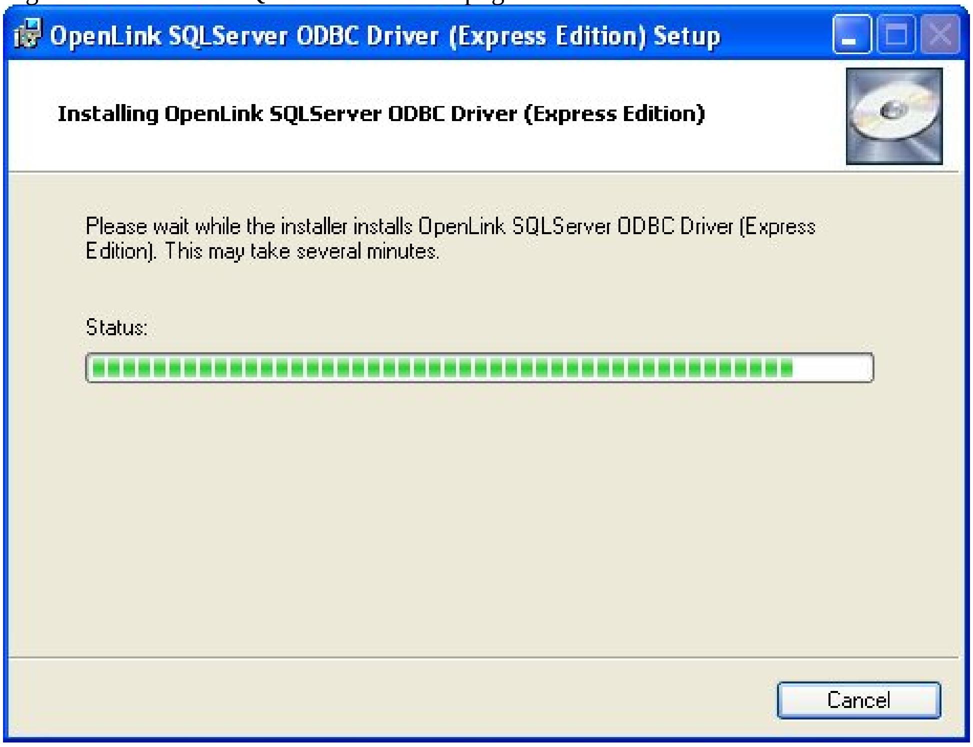
Figure 10.38. EEWinSQLSErverCustom2.png

Click the install button to begin installation of the components:

Figure 10.39. EEWinSQLSErverCustom3.png

Installation in progress:

Figure 10.40. EEWinSQLServerScreen13i.png



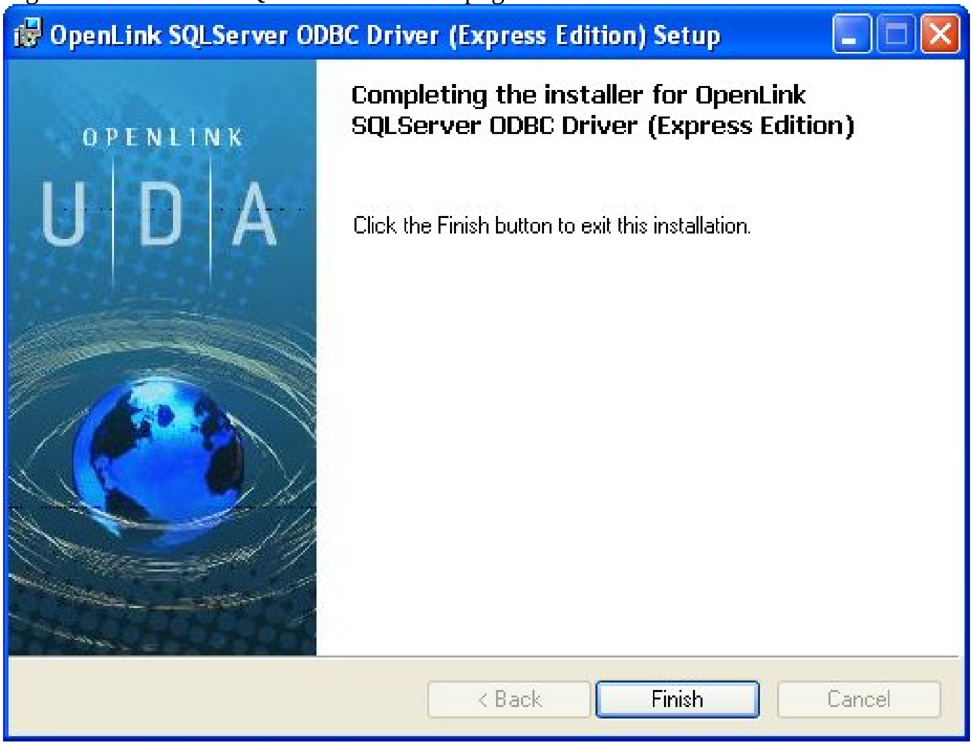
Installing OpenLink SQLServer ODBC Driver (Express Edition)

Please wait while the installer installs OpenLink SQLServer ODBC Driver (Express Edition). This may take several minutes.

Status:

The software installation is complete and ready for use:

Figure 10.41. EEWinSQLServerScreen14i.png



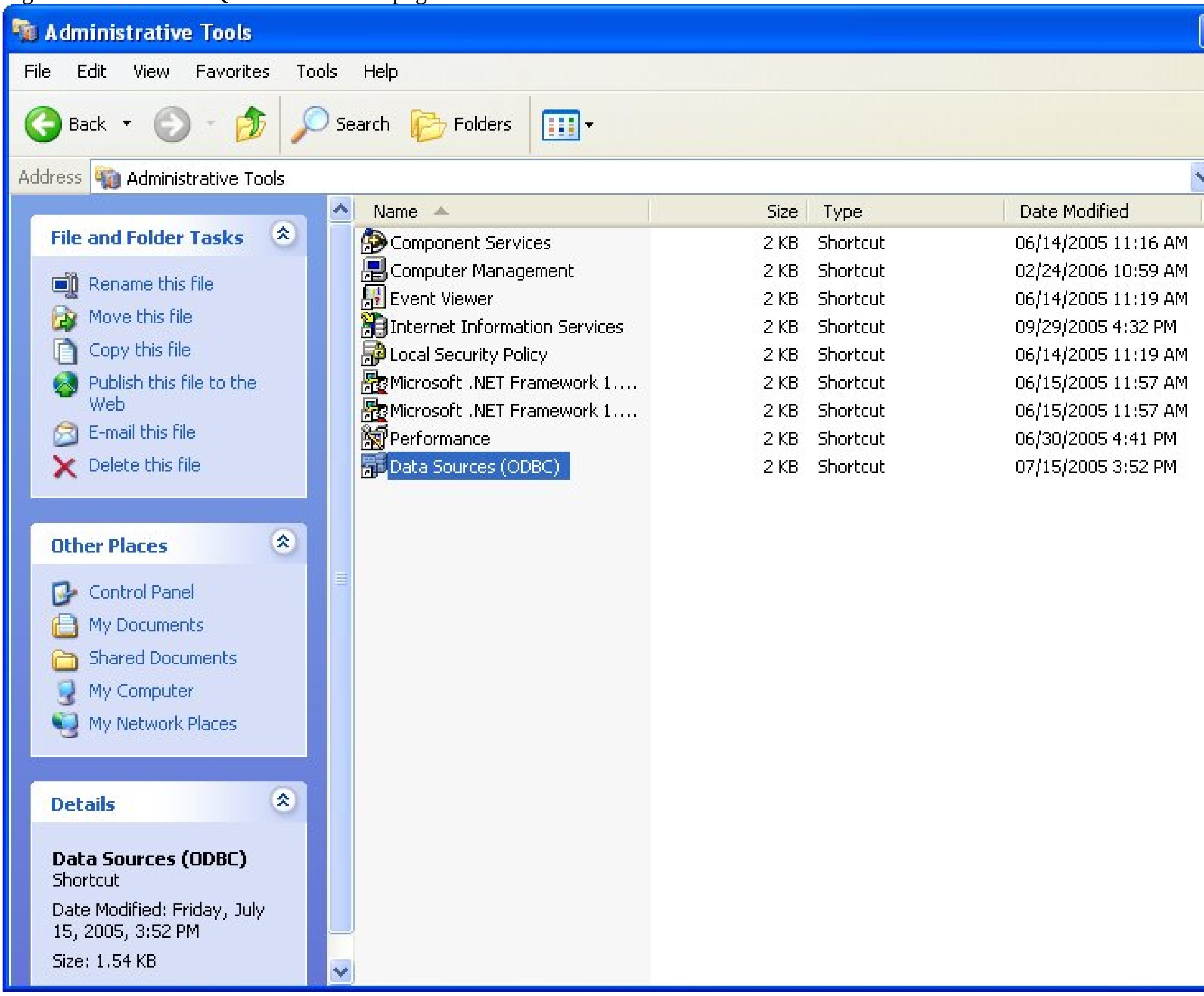
Completing the installer for OpenLink SQLServer ODBC Driver (Express Edition)

Click the Finish button to exit this installation.

11.2.2 Configuration

To configure an ODBCDSN, run the ODBCAdministrator located in the Administrative Tools section of the Control Panel:

Figure 10.42. EEWinSQLServerScreen1c.png

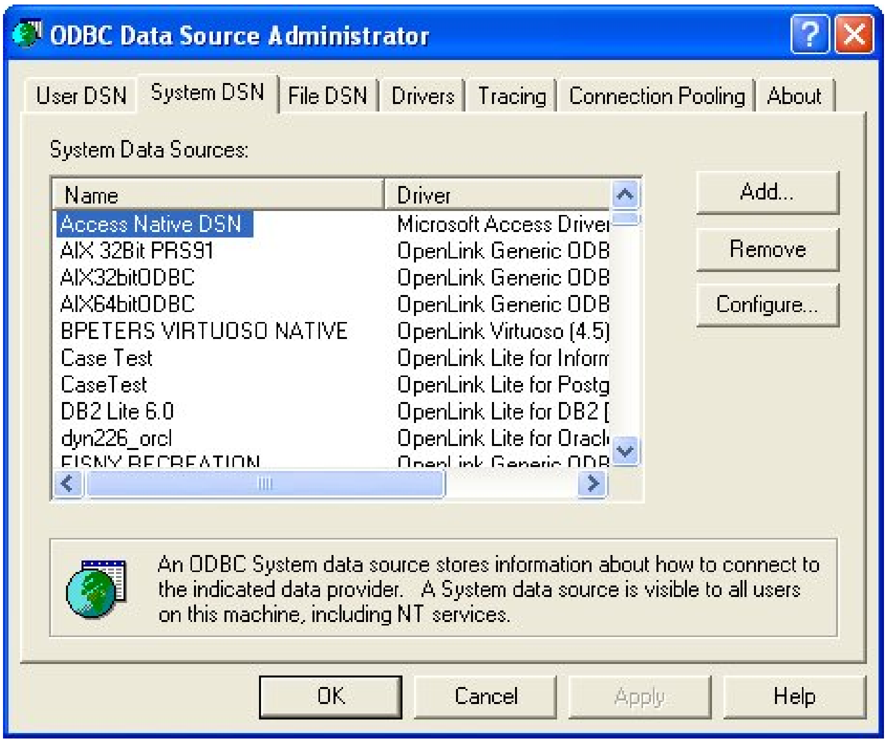


Name	Size	Type	Date Modified
Component Services	2 KB	Shortcut	06/14/2005 11:16 AM
Computer Management	2 KB	Shortcut	02/24/2006 10:59 AM
Event Viewer	2 KB	Shortcut	06/14/2005 11:19 AM
Internet Information Services	2 KB	Shortcut	09/29/2005 4:32 PM
Local Security Policy	2 KB	Shortcut	06/14/2005 11:19 AM
Microsoft .NET Framework 1....	2 KB	Shortcut	06/15/2005 11:57 AM
Microsoft .NET Framework 1....	2 KB	Shortcut	06/15/2005 11:57 AM
Performance	2 KB	Shortcut	06/30/2005 4:41 PM
Data Sources (ODBC)	2 KB	Shortcut	07/15/2005 3:52 PM

Data Sources (ODBC)
Shortcut
Date Modified: Friday, July 15, 2005, 3:52 PM
Size: 1.54 KB

From either the User or System DSN tab, click on the Add button:

Figure 10.43. EEWinSQLServerScreen2c.png



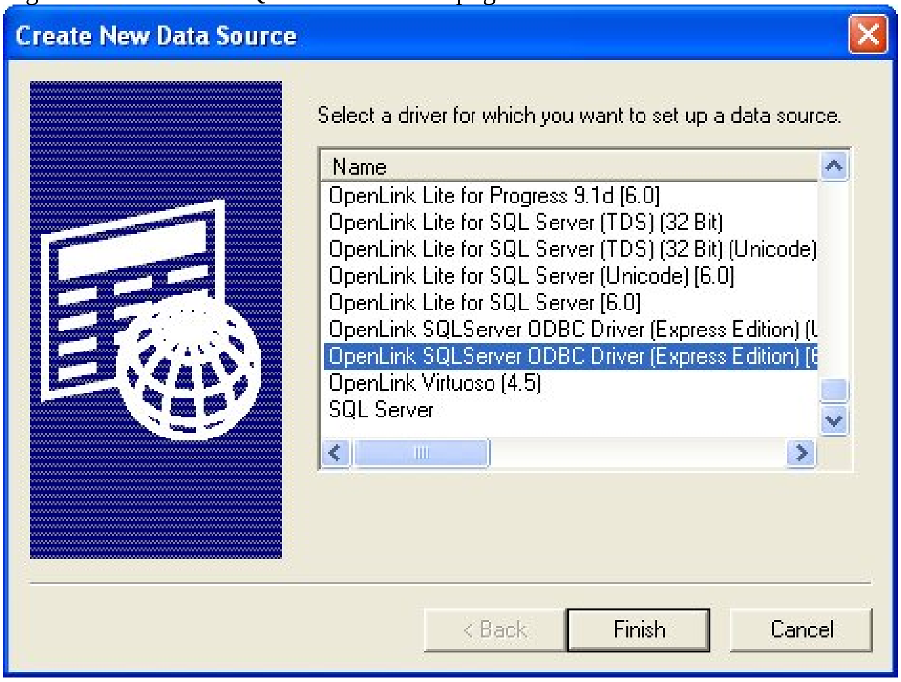
System Data Sources:

Name	Driver
Access Native DSN	Microsoft Access Driver
AIX 32Bit PRS91	OpenLink Generic ODB
AIX32bitODBC	OpenLink Generic ODB
AIX64bitODBC	OpenLink Generic ODB
BPETERS VIRTUOSO NATIVE	OpenLink Virtuoso (4.5)
Case Test	OpenLink Lite for Inform
CaseTest	OpenLink Lite for Postg
DB2 Lite 6.0	OpenLink Lite for DB2 [
dyn226_orcl	OpenLink Lite for Oracl
EISNY RECREATION	OpenLink Generic ODB

An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users on this machine, including NT services.

Select the OpenLinkSQLServer ODBCDriver [Express Edition][6.0] from the list presented:

Figure 10.44. EEWinSQLServerScreen3c.png

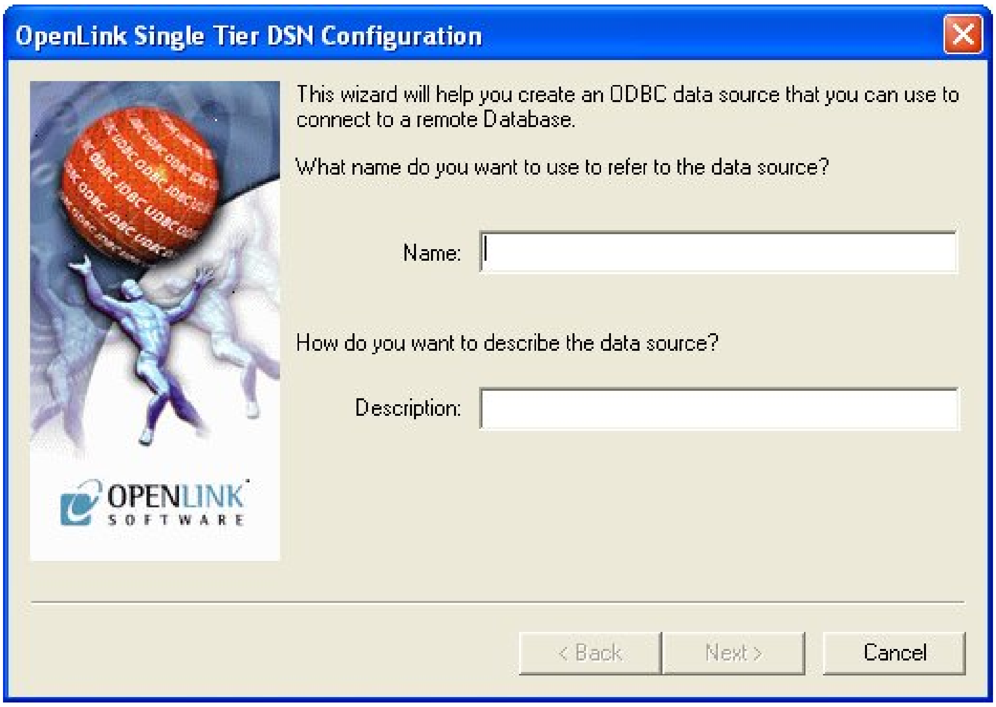


Select a driver for which you want to set up a data source.

Name
OpenLink Lite for Progress 9.1d [6.0]
OpenLink Lite for SQL Server (TDS) (32 Bit)
OpenLink Lite for SQL Server (TDS) (32 Bit) (Unicode)
OpenLink Lite for SQL Server (Unicode) [6.0]
OpenLink Lite for SQL Server [6.0]
OpenLink SQLServer ODBC Driver (Express Edition) (U
OpenLink SQLServer ODBC Driver (Express Edition) [6
OpenLink Virtuoso (4.5)
SQL Server

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 10.45. EEWinSQLServerScreen4c.png



OpenLink Single Tier DSN Configuration

This wizard will help you create an ODBC data source that you can use to connect to a remote Database.

What name do you want to use to refer to the data source?

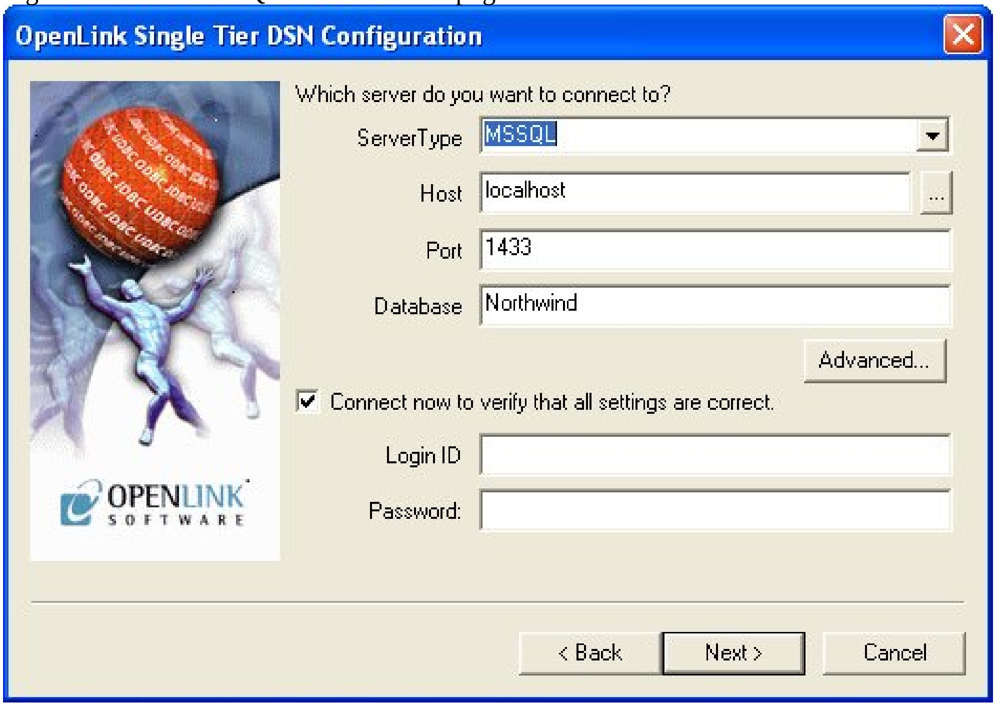
Name:

How do you want to describe the data source?

Description:

The Connection tab requests the minimum parameters required to make a connection to the target database:

Figure 10.46. EEWinSQLServerScreen5c.png



OpenLink Single Tier DSN Configuration

Which server do you want to connect to?

ServerType: MSSQL

Host: localhost

Port: 1433

Database: Northwind

☑ Connect now to verify that all settings are correct.

Login ID:

Password:

- *Server Type* : This parameter should be set to MSSQL, which can be selected from the drop down list box.
- *Host* : This is the fully qualified hostname, or IP address, of the machine hosting the DBMS you wish to access, e.g., dbms-server.example.com, or 192.168.155.123. Any hostname which will be resolved by your local DNS is acceptable.
- *Port* : This is the port that SQL Server is listening on
- *Database* : This is the SQL Server database to which you want to connect

- *Login ID* : This is a valid user on for the SQL Server Database
- *Password* : This is a valid password on for the SQL Server Database

Click next to verify that all settings are correct or uncheck the check box to delay testing to a later stage.

The advanced button displays additional, optional parameters that can be configured:

Figure 10.47. EEWinSQLSErverAdvanced.png

Table 10.2.

Tds	The version of TDS to be used.(default - '8.0')
Cachemetadata	When used with prepareSQL=3, setting this property to true will cause the driver to cache column meta data for SELECT statements. Use with care.(default - false)
Charset	Very important setting, determines the byte value to character mapping for CHAR/VARCHAR/TEXT values. Applies for characters from the extended set (codes 128-255). For NCHAR/NVARCHAR/NTEXT values, does not have any effect, since these are stored using Unicode. (default - the character set the server was installed with)
Language	Applies for characters from the extended set (codes 128-255). For NCHAR/NVARCHAR/NTEXT values, does not have any effect since these are stored using Unicode. (default - the character set the server was installed with)
Domain	Specifies the Windows domain to authenticate in. If present and the user name and password are provided, it uses Windows (NTLM) authentication instead of the usual SQL Server authentication (i.e., the user and password provided are the domain user and password). This allows non-Windows clients to log in to servers, which are only configured to accept Windows authentication.
Instance	Named instance to connect to. SQL Server can run multiple so-called 'named instances' (i.e., different server instances, running on different TCP ports) on the same machine. When using Microsoft tools, selecting one of these instances is made by using '[host_name]\[instance_name]' instead of the usual '[host_name]'. You will have to split the two and use the instance name as a property.
AppName	Application name. No practical use; it's displayed by Enterprise Manager or Profiler associated with the connection.
ProgName	Client library name. No practical use; it's displayed by Enterprise Manager or Profiler associated with the connection.
Wsid	Workstation ID. No practical use; it's displayed by Enterprise Manager or Profiler associated with the connection. (default - the client host name)
MacAddress	Network interface card MAC address. (default - '000000000000')
SendStringParametersAsUnicode	Determines whether string parameters are sent to the SQL Server database in Unicode or in the default character encoding of the database. (default - true)
LastUpdateCount	If true, only the last update count will be returned by executeUpdate(). This is useful in case you are updating or inserting into tables that have triggers (such as replicated tables); there's no way to make the difference between an update count returned by a trigger and the actual update count, but the actual update count is always the last, as the triggers execute first. If false, all update counts are returned; use getMoreResults() to loop through them. (default - true)
PrepareSQL	This parameter specifies the mechanism used for Prepared Statements. (default - 3 for SQL Server)
PacketSize	The network packet size (a multiple of 512). (default - 4096 for TDS 7.0/8.0; 512 for TDS 4.2/5.0)
TcpNoDelay	True to enable TCP_NODELAY on the socket; false to disable it. (default - true)
LobBuffer	The amount of LOB data to buffer in memory before caching to disk. The value is in bytes for Blob data and chars for Clob data. (default - 32768)
MaxStatements	The number of statement prepares each connection should cache. A value of 0 will disable statement caching.(default - 500)

LoginTimeout

The amount of time to wait (in seconds) for a successful connection before timing out. If namedPipe is true and loginTimeout is non-zero, the value of loginTimeout is used for the retry timeout when 'All pipe instances are busy' error messages are received while attempting to connect to the server. If namedPipe is true and loginTimeout is zero (the default), a value of 20 seconds is used for the named pipe retry timeout. (default - 0)

SocketTimeout

The amount of time to wait (in seconds) for network activity before timing out. Use with care! If a non zero value is supplied, this must be greater than the maximum time that the server will take to answer any query. Once the timeout value is exceeded, the network connection will be closed. This parameter may be useful for detecting dead network connections in a pooled environment. (default - 0)

NamedPipe

When set to true, named pipe communication is used to connect to the database instead of TCP/IP sockets. When the os.name system property starts with 'windows' (case-insensitive), named pipes (both local and remote) are accessed through the Windows filesystem by opening a RandomAccessFile to the path. When the SQL Server and the client are on the same machine, a named pipe will usually have better performance than TCP/IP sockets since the network layer is eliminated.

Ssl

Specifies if and how to use SSL for secure communication. (default - off)

BatchSize

Controls how many statements are sent to the server in a batch. The actual batch is broken up into pieces this large that are sent separately.(default - 0[unlimited] for SQL Server)

UseCursors

Instructs the driver to use server side cursors instead of direct selects (AKA firehose cursors) for forward-only read-only result sets (with other types of result sets server- or client-side cursors are always used). (default - false)

BufferMaxMemory

Controls the global buffer memory limit for all connections (in kilobytes). When the amount of buffered server response packets reaches this limit, additional packets are buffered to disk; there is however one exception: each Statement gets to buffer at least '[bufferMinPackets]' to memory before this limit is enforced. This means that this limit can and will usually be exceeded. (default - 1024)

BufferMinPackets

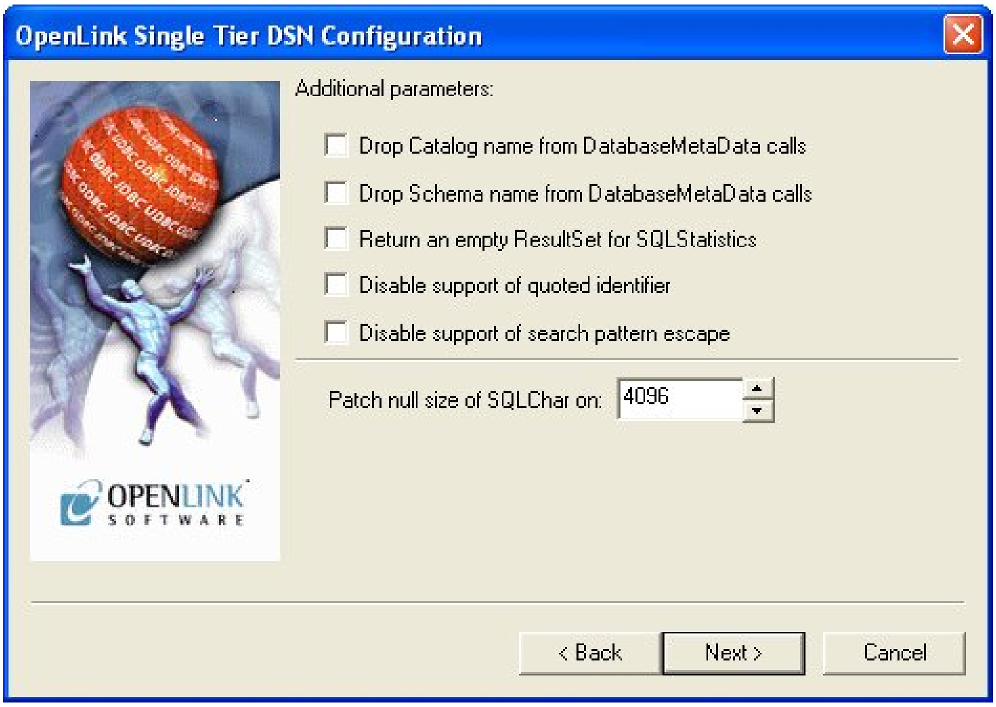
Controls the minimum number of packets per statement to buffer to memory. Each Statement will buffer at least this many packets before being forced to use a temporary file if the [bufferMaxMemory] is reached, to ensure good performance even when one Statement caches a very large amount of data. (default - 8)

UseLOBs

Controls whether large types (IMAGE and TEXT/NTEXT) should be mapped by default (when using getObject()) to LOBs . The default type constant returned is also controlled by this property: BLOB for IMAGE and CLOB for TEXT/NTEXT when true, LONGVARBINARY for IMAGE and LONGVARCHAR for TEXT/NTEXT when false. (default - true)

As indicated above, the parameters on the options and preferences tabs are not required for a basic connection.

Figure 10.48. EEWinSQLServerScreen6c.png



OpenLink Single Tier DSN Configuration

Additional parameters:

□ Drop Catalog name from DatabaseMetaData calls

□ Drop Schema name from DatabaseMetaData calls

□ Return an empty ResultSet for SQLStatistics

□ Disable support of quoted identifier

□ Disable support of search pattern escape

Patch null size of SQLChar on: 4096

- *Drop Catalog name from DatabaseMetaData calls* - Enable this option to have the catalog name not appear for tables, views, and procedures when requesting database meta-data.

- *Drop Schema name from DatabaseMetaData calls* - Enable this option to have the schema-name not appear for tables, views, and procedures when requesting database meta-data.

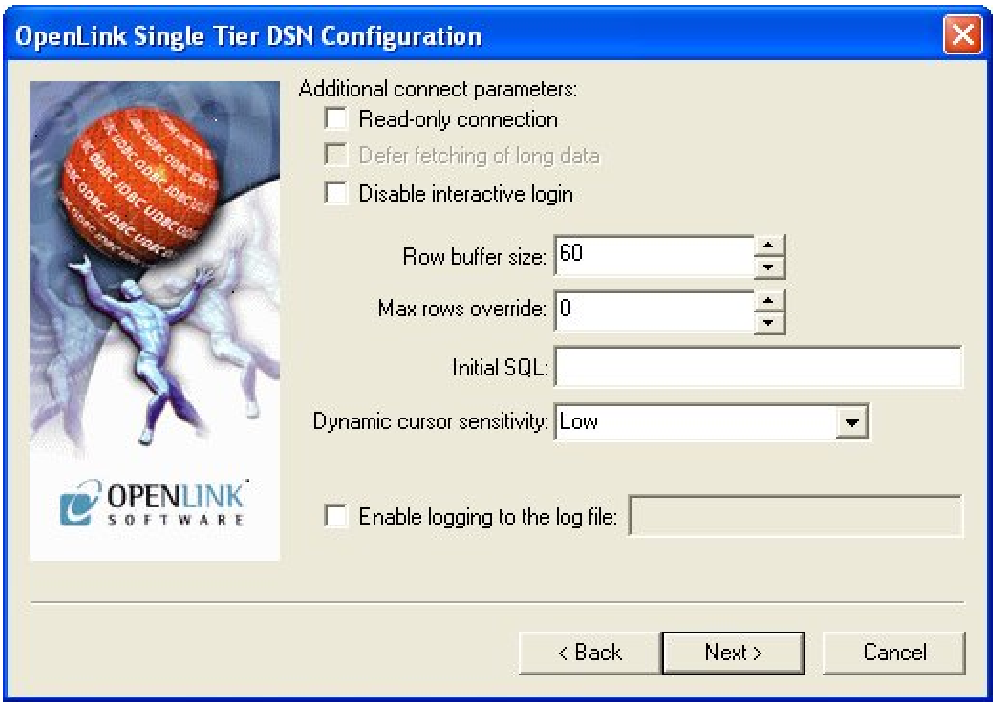
- *Return an empty ResultSet for SQLStatistics* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table (e.g., what indexes there are on it).

- *Disable support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if DBMS does not support quoted SQL, e.g., select * from "account."

- *Disable support of search pattern escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if DBMS does not support SQL escape patterns

- *Patch of NULL size of SQL_CHAR* - If set, this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0, the driver uses the size returned by the database.

Figure 10.49. EEWinSQLServerScreen7c.png



OpenLink Single Tier DSN Configuration

Additional connect parameters:

□ Read-only connection

□ Defer fetching of long data

□ Disable interactive login

Row buffer size: 60

Max rows override: 0

Initial SQL:

Dynamic cursor sensitivity: Low

□ Enable logging to the log file:

- *Read Only connection* - Specify whether the connection is to be "Read-only". Make sure the checkbox is unchecked to request a "Read/Write" connection.

- *Disable interactive login* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.

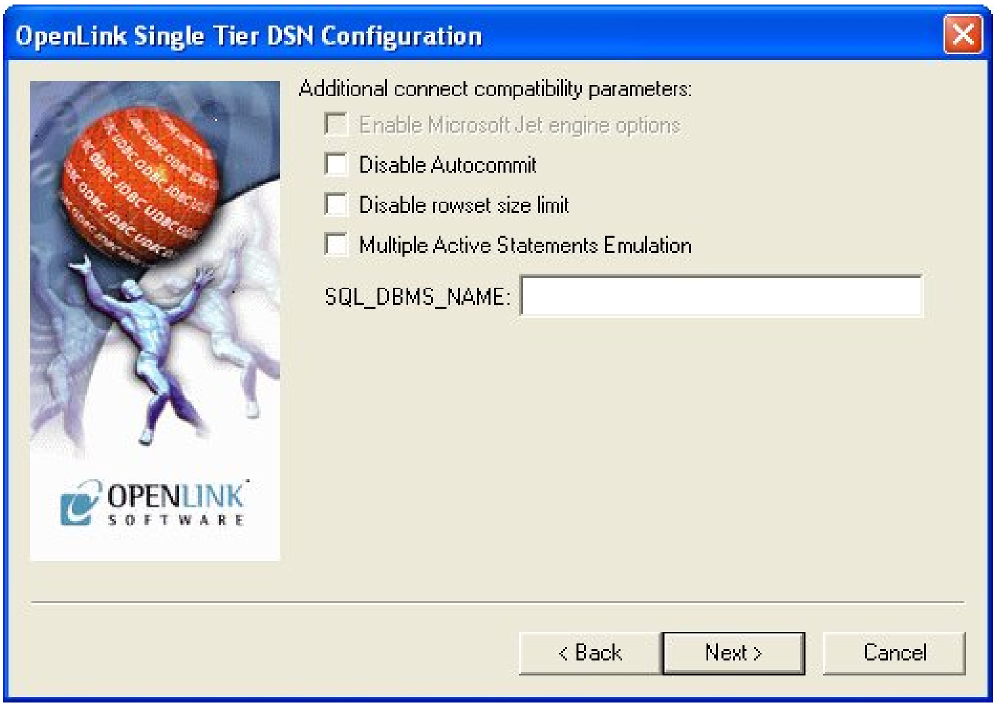
- *Max Rows Override* - Allows you to define a limit on the maximum number of rows to be returned from a query. The default value of 0 means no limit.

- *Initial SQL* - Lets you specify a file containing SQL statements that will be automatically run against the database upon connection.

- *Dynamic Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched, and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED, when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows do not appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset, if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate OpenLink script for the target database.

- *Enable logging to the log file:* - Specifies the full path to a text file. If the associated checkbox is checked, and a file is passed, the driver will log auto-generate a clientside ODBC trace.

Figure 10.50. EEWinSQLServerScreen8c.png



Additional connect compatibility parameters:

□ Enable Microsoft Jet engine options

□ Disable Autocommit

□ Disable rowset size limit

□ Multiple Active Statements Emulation

SQL_DBMS_NAME:

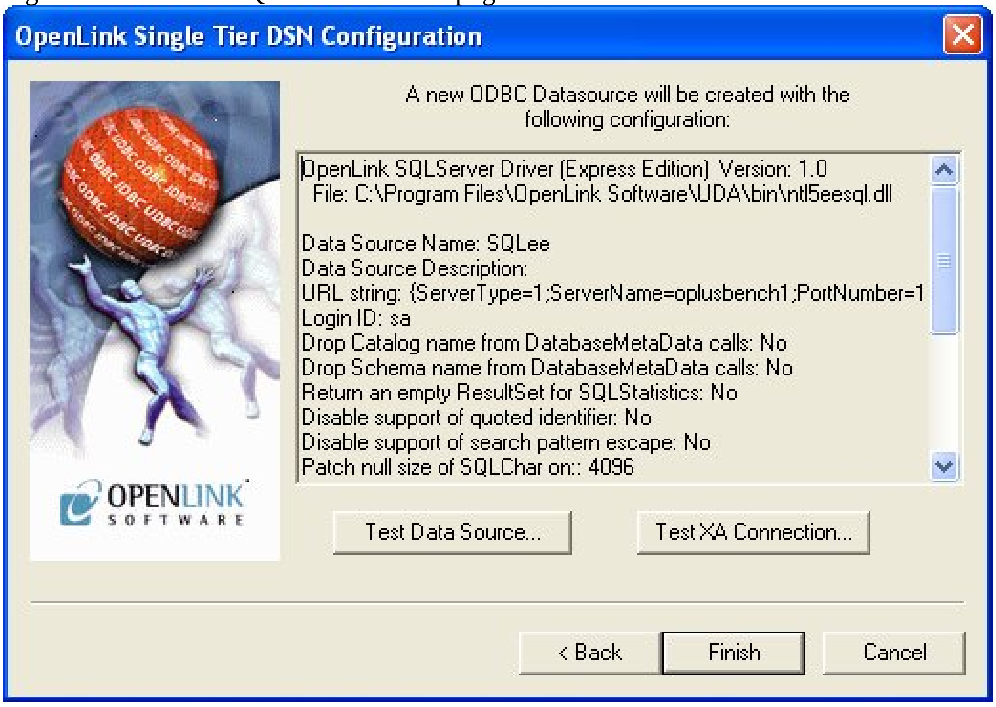
- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Lite Driver. The default mode is AutoCommit mode (box unchecked).

- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the driver claiming all available memory in the event that a resultset is generated from an erroneous query is very large. The limit is normally never reached.

- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

- *SQL_DBMS Name* - Manually override the SQLGetInfo(SQL_DBMS_NAME) response returned by the driver. This is required for products like Microsoft InfoPath for which the return the value must be "SQL Server".

Figure 10.51. EEWinSQLServerScreen9c.png

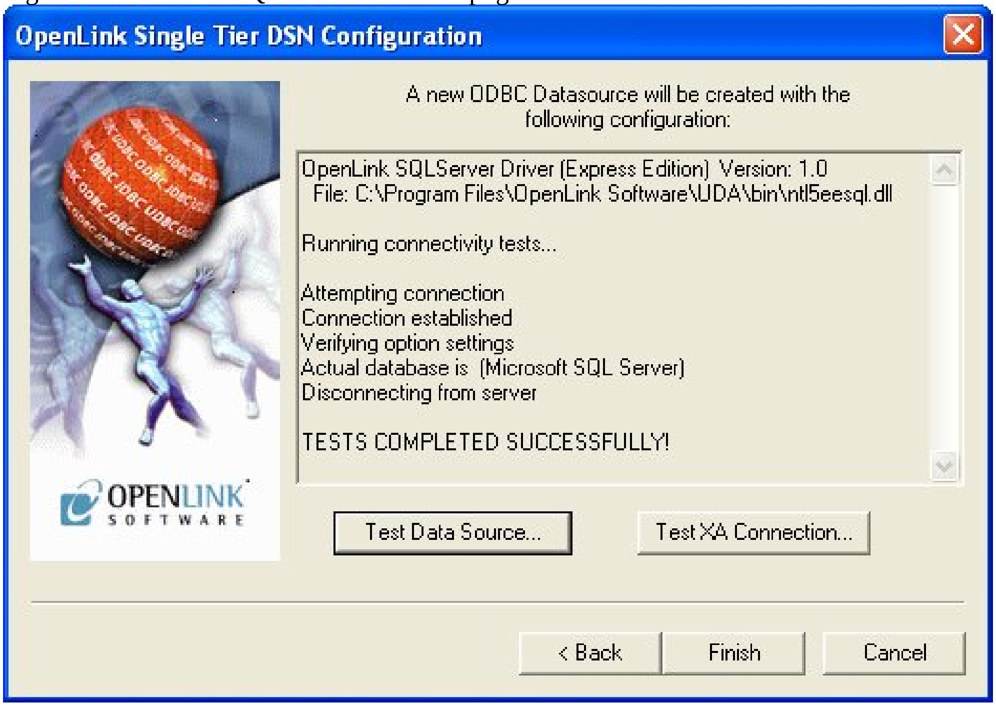


A new ODBC Datasource will be created with the following configuration:

```
OpenLink SQLServer Driver (Express Edition)  Version: 1.0
  File: C:\Program Files\OpenLink Software\UDA\bin\ntl5eesql.dll

Data Source Name: SQLee
Data Source Description:
URL string: {ServerType=1;ServerName=oplusbench1;PortNumber=1
Login ID: sa
Drop Catalog name from DatabaseMetaData calls: No
Drop Schema name from DatabaseMetaData calls: No
Return an empty ResultSet for SQLStatistics: No
Disable support of quoted identifier: No
Disable support of search pattern escape: No
Patch null size of SQLChar on:: 4096
```

Click on the *Test Data Source*button to verify that a successful connection can be made to the database.

Figure 10.52. EEWinSQLServerScreen10c.png



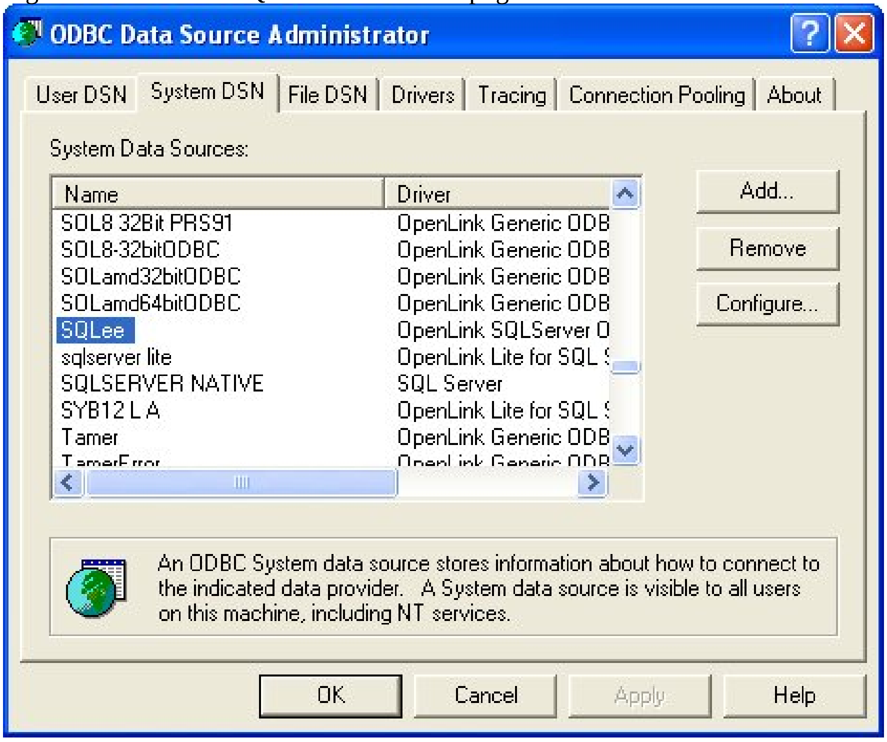
OpenLink Single Tier DSN Configuration

A new ODBC Datasource will be created with the following configuration:

```
OpenLink SQLServer Driver (Express Edition)  Version: 1.0
  File: C:\Program Files\OpenLink Software\UDA\bin\ntl5eesql.dll

Running connectivity tests...

Attempting connection
Connection established
Verifying option settings
Actual database is  (Microsoft SQL Server)
Disconnecting from server

TESTS COMPLETED SUCCESSFULLY!
```

When you click finish, you will go back to the ODBCData Source Administrator, and you should see the new DSN in the list of available DSN's:

Figure 10.53. EEWinSQLServerScreen11c.png



ODBC Data Source Administrator

System Data Sources:

Name	Driver
SOL8 32Bit PRS91	OpenLink Generic ODB
SOL8-32bitODBC	OpenLink Generic ODB
SOLamd32bitODBC	OpenLink Generic ODB
SOLamd64bitODBC	OpenLink Generic ODB
SQLee	OpenLink SQLServer O
sqlserver lite	OpenLink Lite for SQL S
SQLSERVER NATIVE	SQL Server
SYB12 L A	OpenLink Lite for SQL S
Tamer	OpenLink Generic ODB
TamerError	OpenLink Generic ODB

An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users on this machine, including NT services.

12 Chapter 11. OpenLink ODBC Driver for Sybase (Express Editon)

Table of Contents

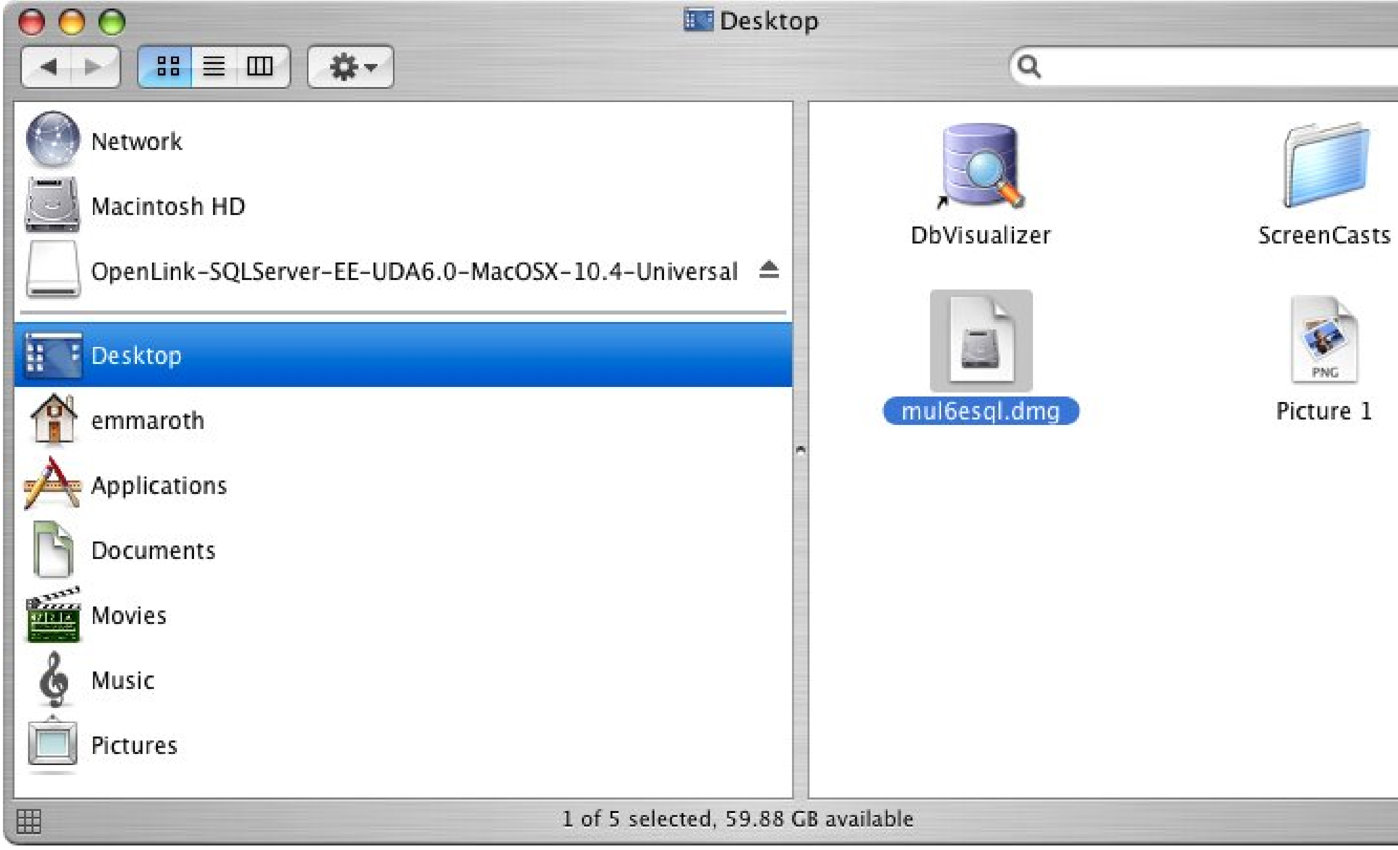
- OpenLink ODBC Driver for Sybase (Express Editon) for Mac OS X
    - Installation Guide
    - Configuration
- OpenLink ODBC Driver for Sybase (Express Editon) for Windows
    - Installation
    - Configuration

12.1 OpenLink ODBC Driver for Sybase (Express Editon) for Mac OS X

12.1.1 Installation Guide

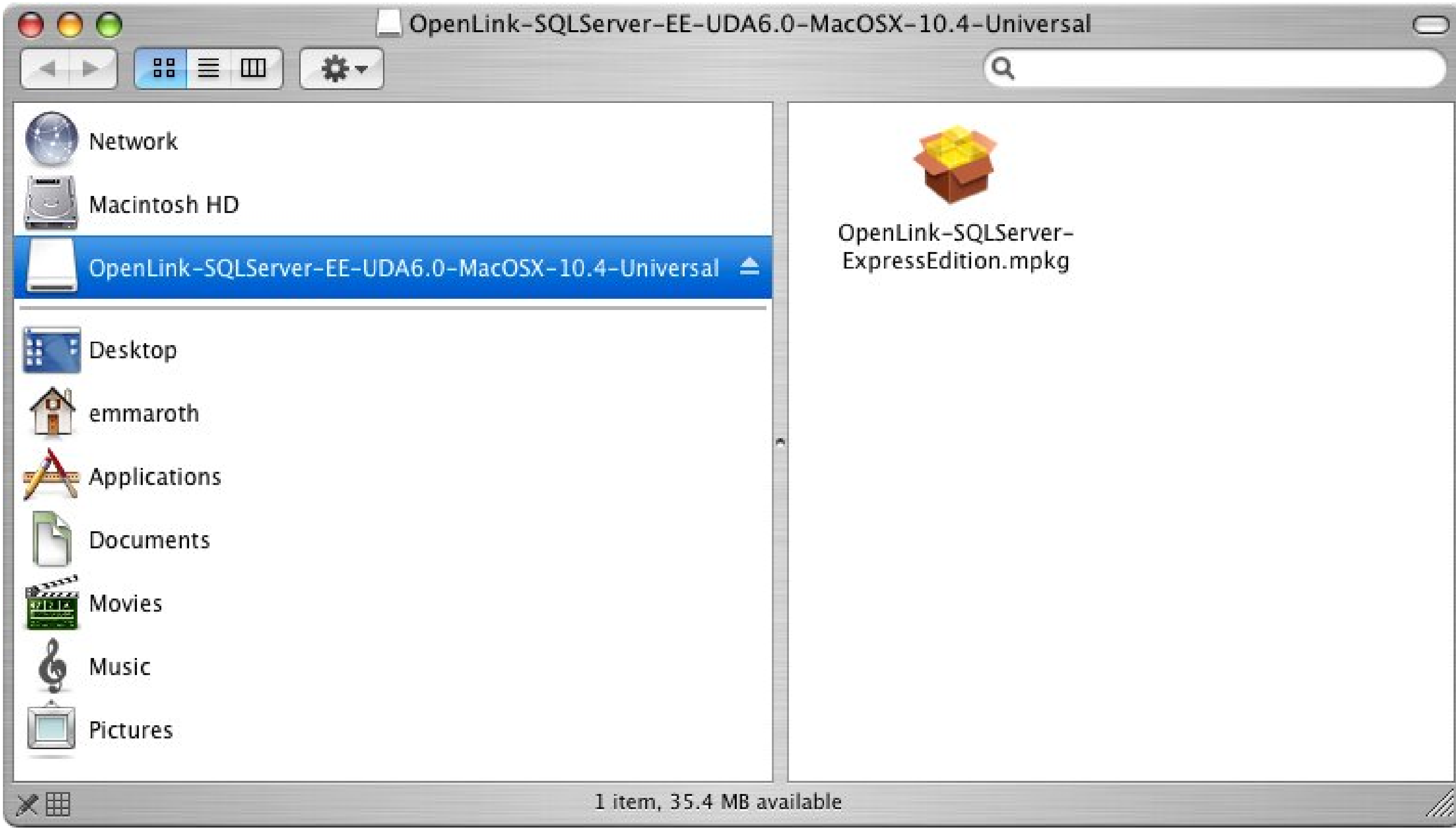
The OpenLink ODBC Driver for Sybase (Express Edition is a distributed as a Disk Image (DMG) file. Simply double click on the disk image 'mul6esql.dmg' to extract the installer mpkg file:

Figure 11.1. SybaseInstall1.png



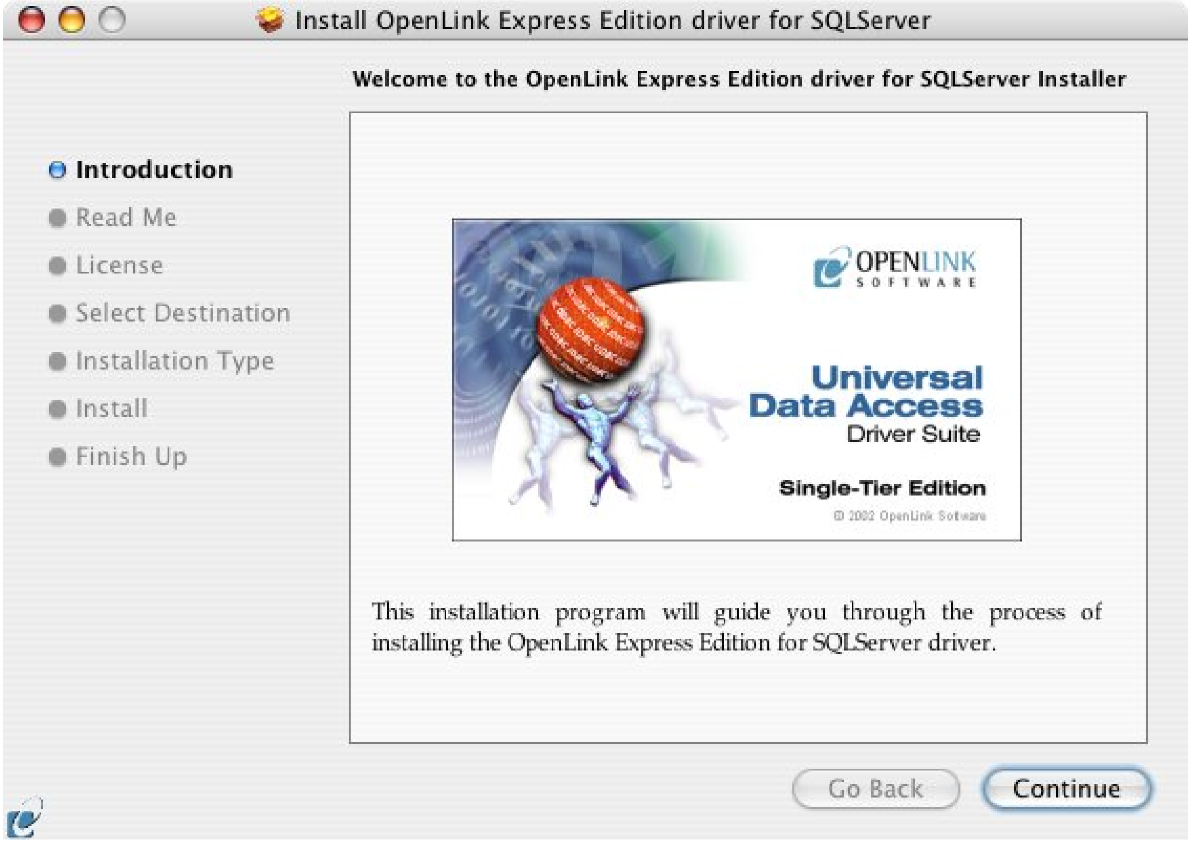
Double-click on the mpkg file to run the installer and following the on-screen instruction as indicated below to complete the installation:

Figure 11.2. SybaseInstall2.png


OpenLink-SQLServer-EE-UDA6.0-MacOSX-10.4-Universal
Network
Macintosh HD
OpenLink-SQLServer-EE-UDA6.0-MacOSX-10.4-Universal
Desktop
emmaroth
Applications
Documents
Movies
Music
Pictures
OpenLink-SQLServer-ExpressEdition.mpkg
1 item, 35.4 MB available

Installer Welcome Dialog for the OpenLink ODBC Driver for SQL Server (Express Edition):

Figure 11.3. SybaseInstall4.png

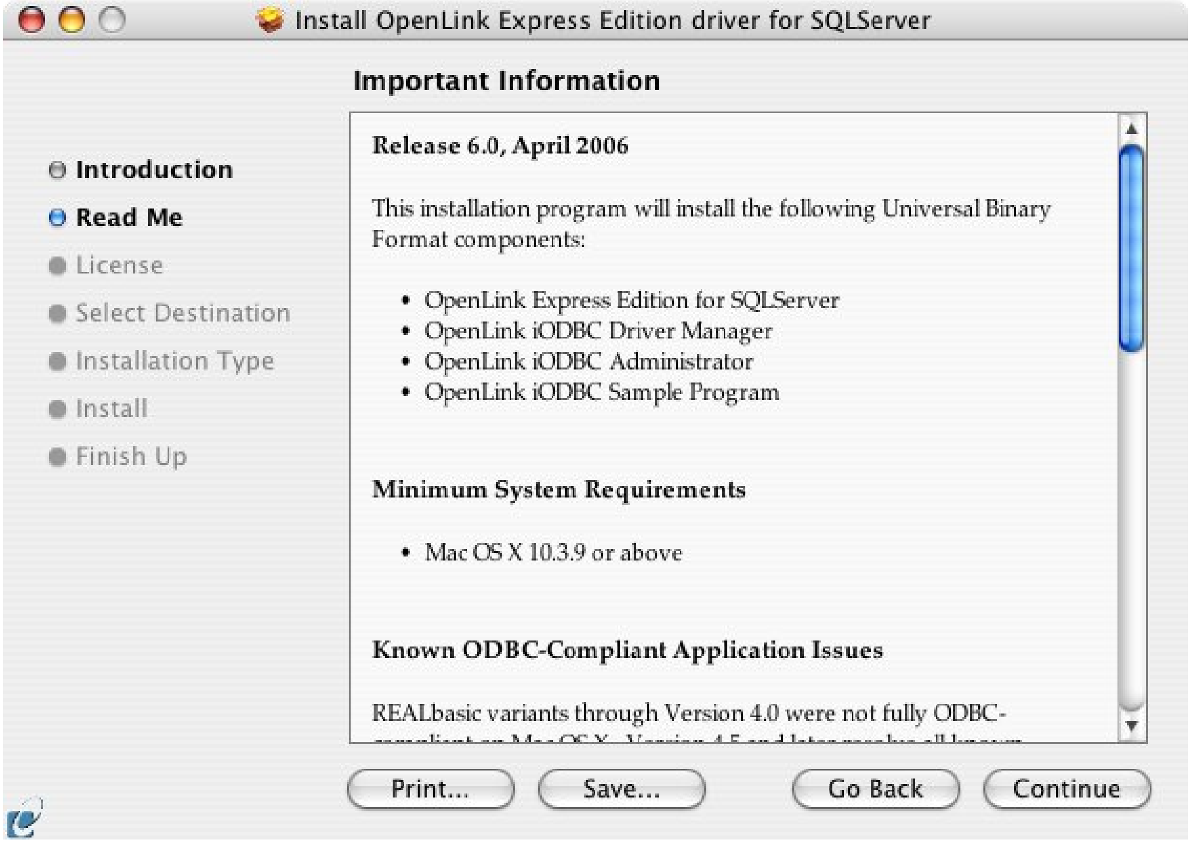


Welcome to the OpenLink Express Edition driver for SQLServer Installer

This installation program will guide you through the process of installing the OpenLink Express Edition for SQLServer driver.

Please review the readme file for installation requirements and known issues:

Figure 11.4. SybaseInstall5.png



Release 6.0, April 2006

This installation program will install the following Universal Binary Format components:

- OpenLink Express Edition for SQLServer
- OpenLink iODBC Driver Manager
- OpenLink iODBC Administrator
- OpenLink iODBC Sample Program

Minimum System Requirements

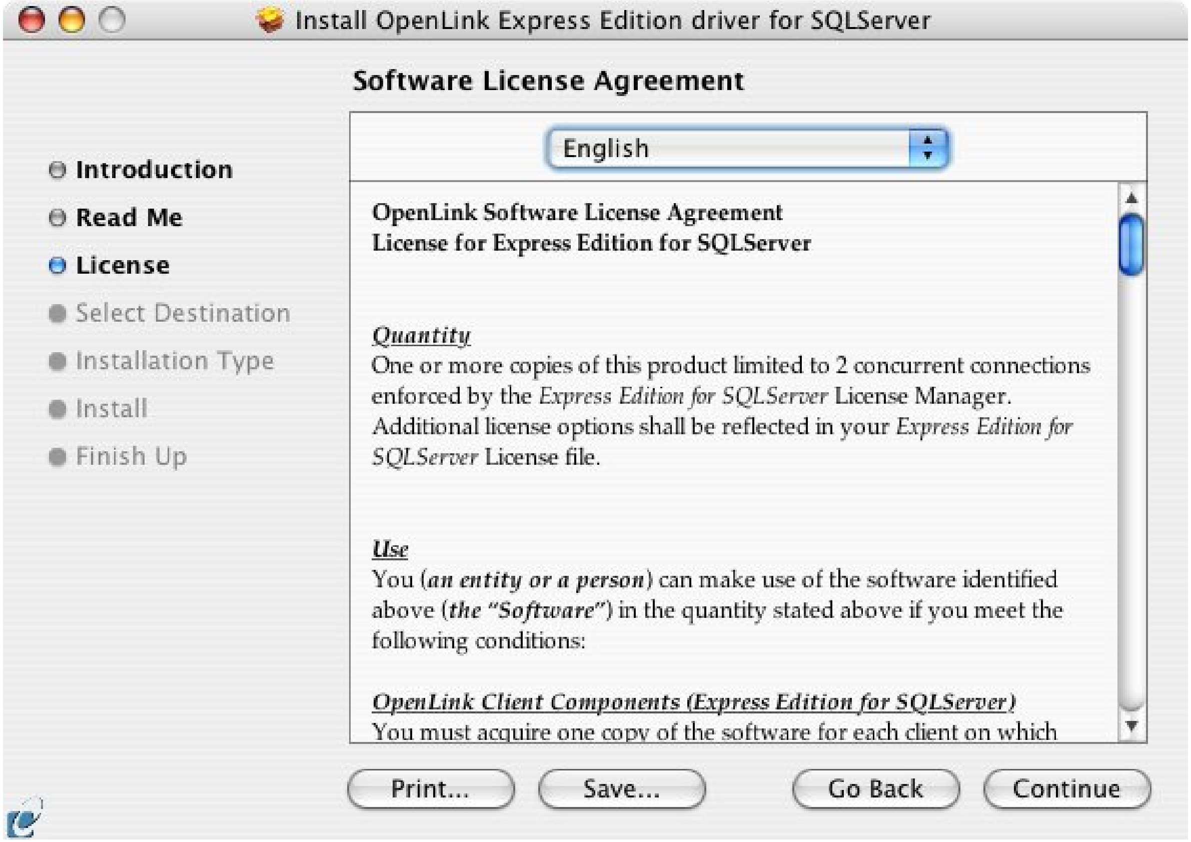
- Mac OS X 10.3.9 or above

Known ODBC-Compliant Application Issues

REALbasic variants through Version 4.0 were not fully ODBC-

Please read the software license agreement before continuing your installation:

Figure 11.5. SybaseInstall6.png



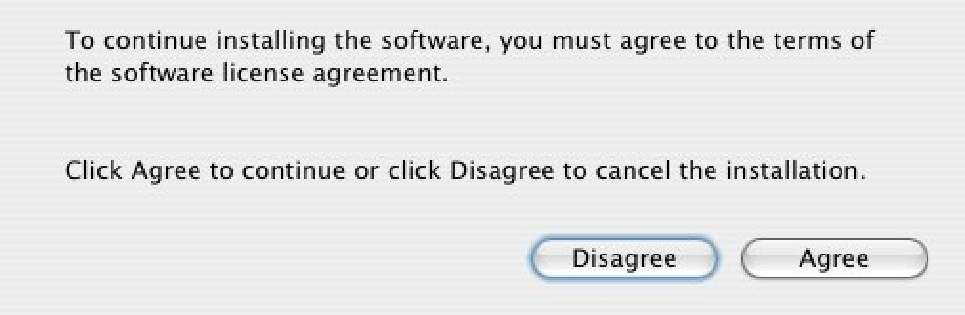
OpenLink Software License Agreement
License for Express Edition for SQLServer

Quantity
One or more copies of this product limited to 2 concurrent connections enforced by the *Express Edition for SQLServer* License Manager. Additional license options shall be reflected in your *Express Edition for SQLServer* License file.

Use
You (***an entity or a person***) can make use of the software identified above (***the "Software"***) in the quantity stated above if you meet the following conditions:

OpenLink Client Components (Express Edition for SQLServer)
You must acquire one copy of the software for each client on which

Figure 11.6. SybaseInstall7.png

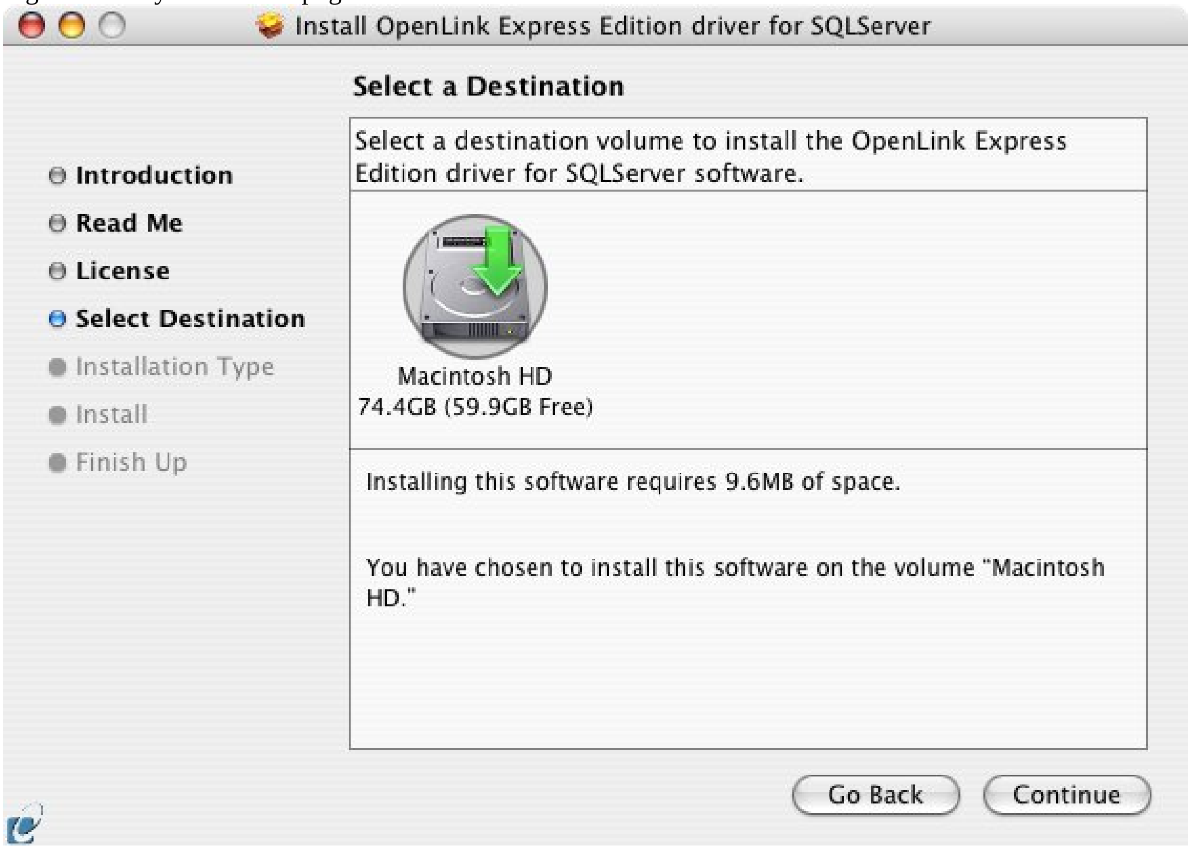


To continue installing the software, you must agree to the terms of the software license agreement.

Click Agree to continue or click Disagree to cancel the installation.

Select destination volume for driver installation:

Figure 11.7. SybaseInstall8.png



Select a Destination

Select a destination volume to install the OpenLink Express Edition driver for SQLServer software.

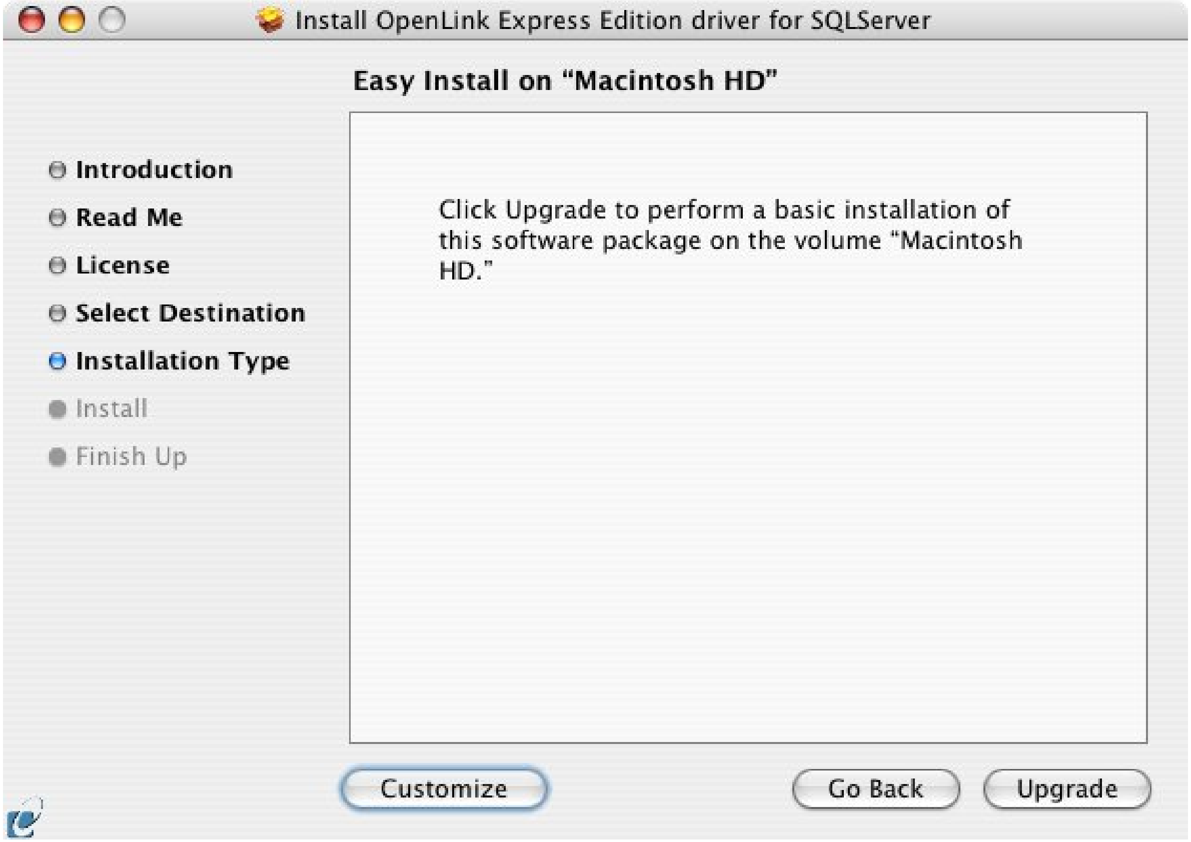
Macintosh HD
74.4GB (59.9GB Free)

Installing this software requires 9.6MB of space.

You have chosen to install this software on the volume "Macintosh HD."

Choose to perform a custom or default installation of the driver:

Figure 11.8. SybaseInstall9.png

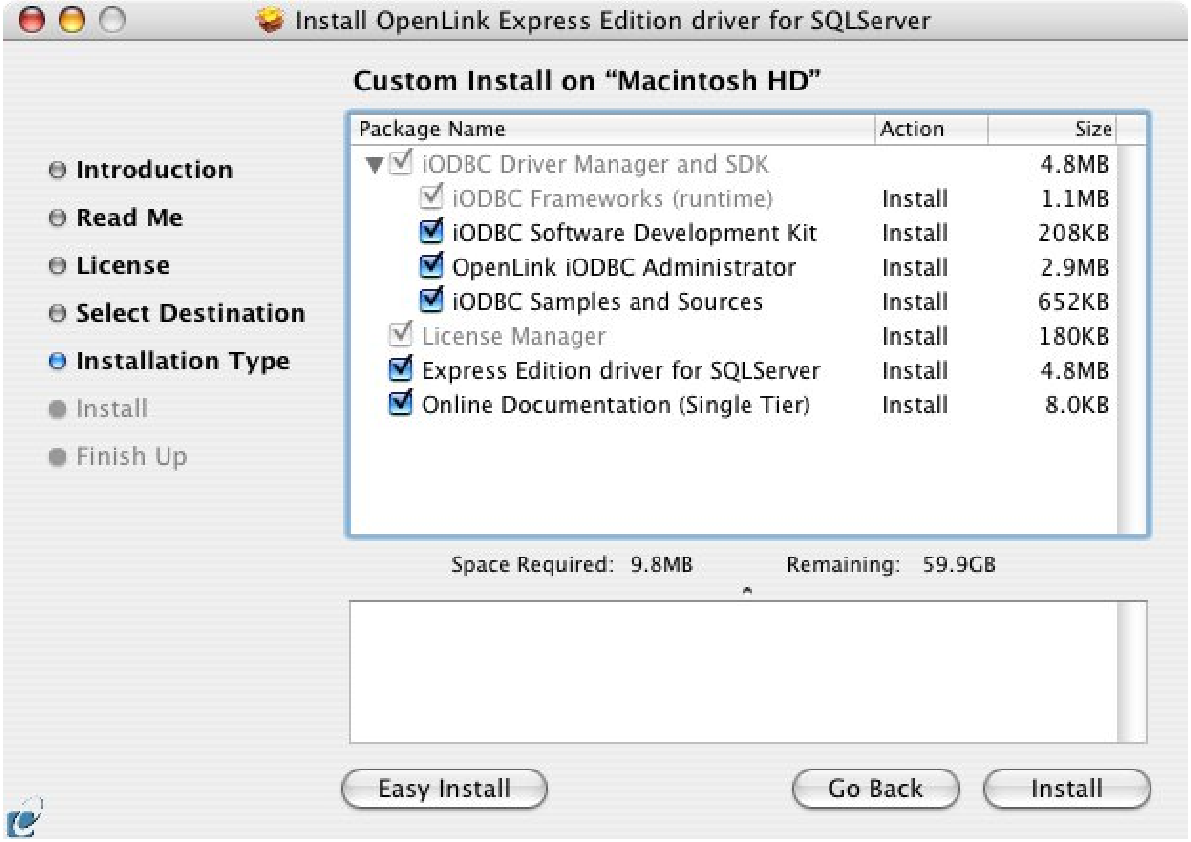


Easy Install on “Macintosh HD”

Click Upgrade to perform a basic installation of this software package on the volume “Macintosh HD.”

If you chose the custom option select which of the components below are to be installed:

Figure 11.9. SybaseInstallExtra.png



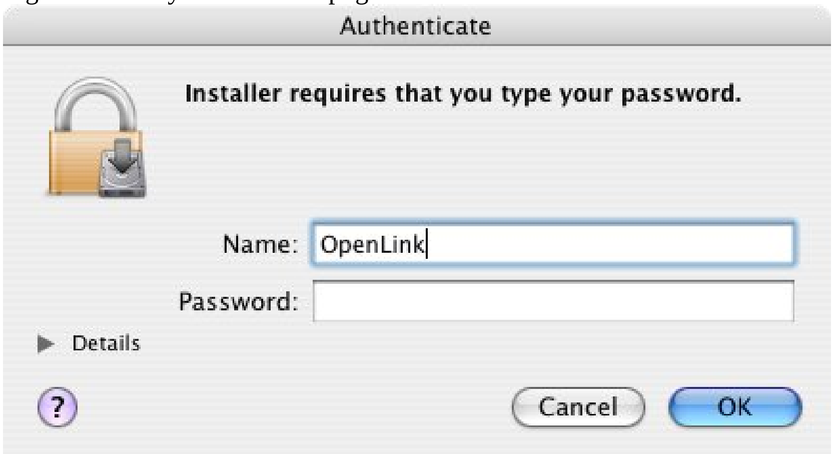
Custom Install on “Macintosh HD”

Package Name	Action	Size
▼ ☑ iODBC Driver Manager and SDK		4.8MB
☑ iODBC Frameworks (runtime)	Install	1.1MB
☑ iODBC Software Development Kit	Install	208KB
☑ OpenLink iODBC Administrator	Install	2.9MB
☑ iODBC Samples and Sources	Install	652KB
☑ License Manager	Install	180KB
☑ Express Edition driver for SQLServer	Install	4.8MB
☑ Online Documentation (Single Tier)	Install	8.0KB

Space Required: 9.8MB Remaining: 59.9GB

The software must be installed as a user with Administrative privileges on the machine:

Figure 11.10. SybaseInstall10.png



Authenticate

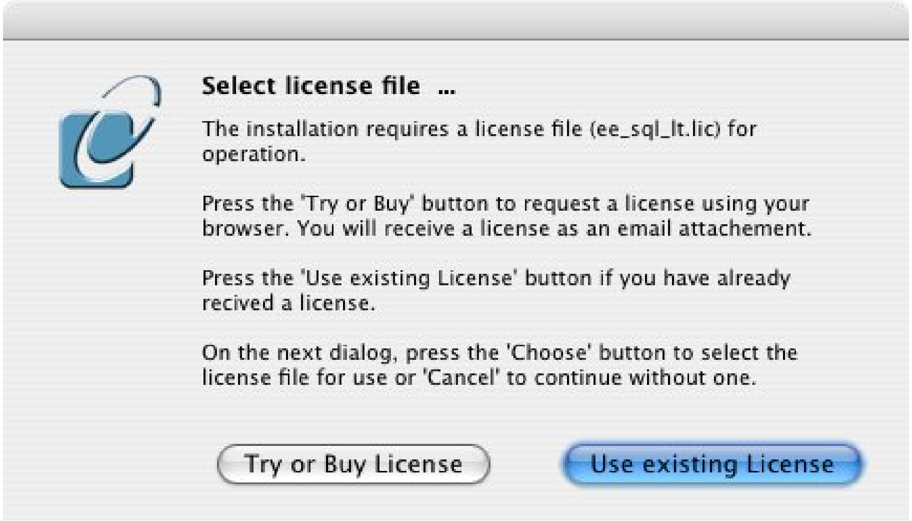
Installer requires that you type your password.

Name: OpenLink

Password:

After the driver has been installed you will be prompted for a license file. If a license file already exists on the machine then select the 'use exisiting file' option. A trial (try) or full (buy) license can be obtain by selecting the 'try and buy' option which loads our online try-and-buy web page:

Figure 11.11. SybaseInstall11.png



Select license file ...

The installation requires a license file (ee_sql_lt.lic) for operation.

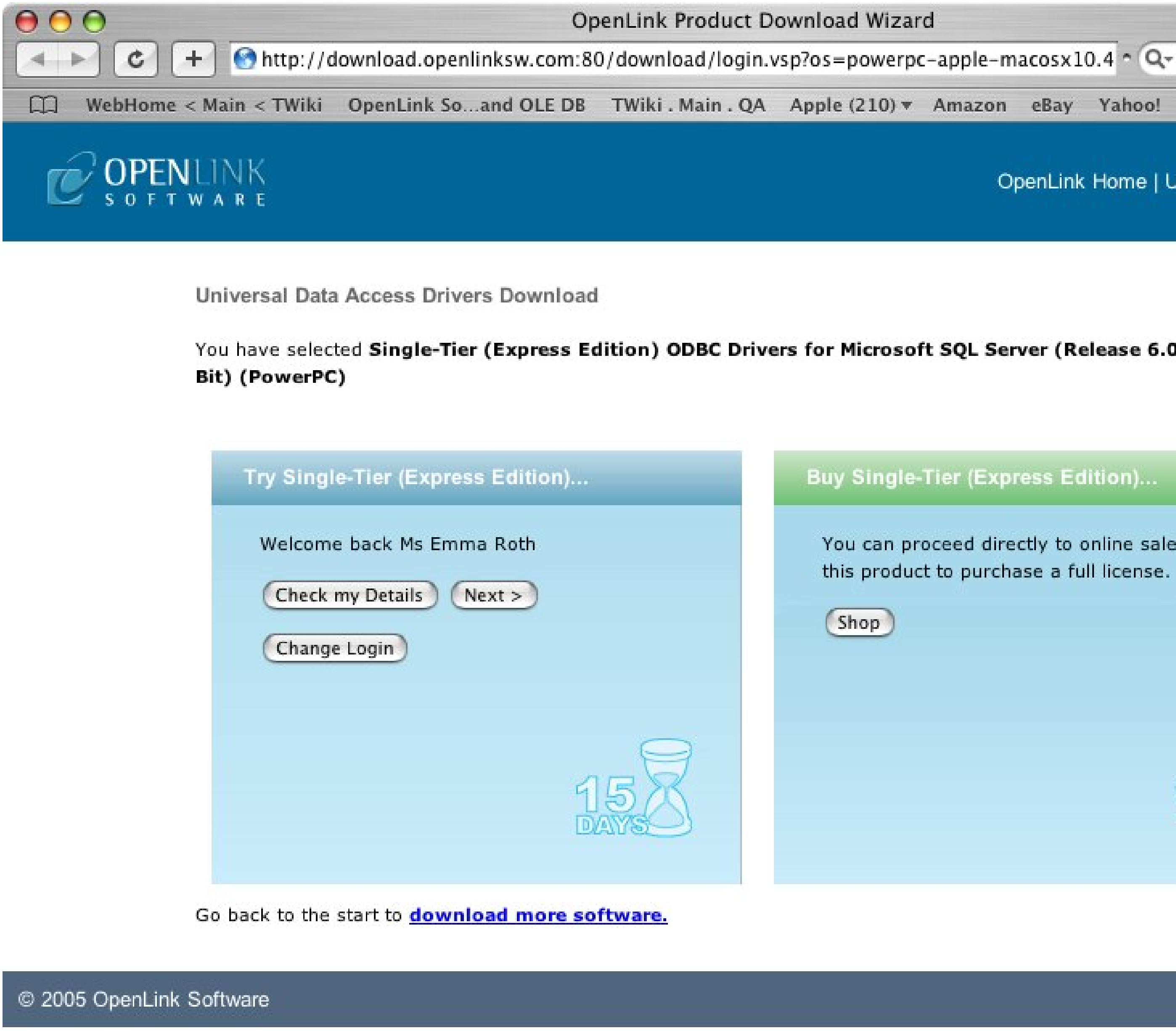
Press the 'Try or Buy' button to request a license using your browser. You will receive a license as an email attachement.

Press the 'Use existing License' button if you have already recived a license.

On the next dialog, press the 'Choose' button to select the license file for use or 'Cancel' to continue without one.

To obtain the trial license you must be a registered user on the OpenLink Web site and login with the username (e-mail address) and password for that user. Click on the 'Shop' link to visit our online shop cart to purchases a full license if required:

Figure 11.12. SybaseInstall12.png



OpenLink Product Download Wizard

http://download.openlinksw.com:80/download/login.vsp?os=powerpc-apple-macosx10.4

Universal Data Access Drivers Download

You have selected **Single-Tier (Express Edition) ODBC Drivers for Microsoft SQL Server (Release 6.0 Bit) (PowerPC)**

Try Single-Tier (Express Edition)...

Welcome back Ms Emma Roth

Buy Single-Tier (Express Edition)...

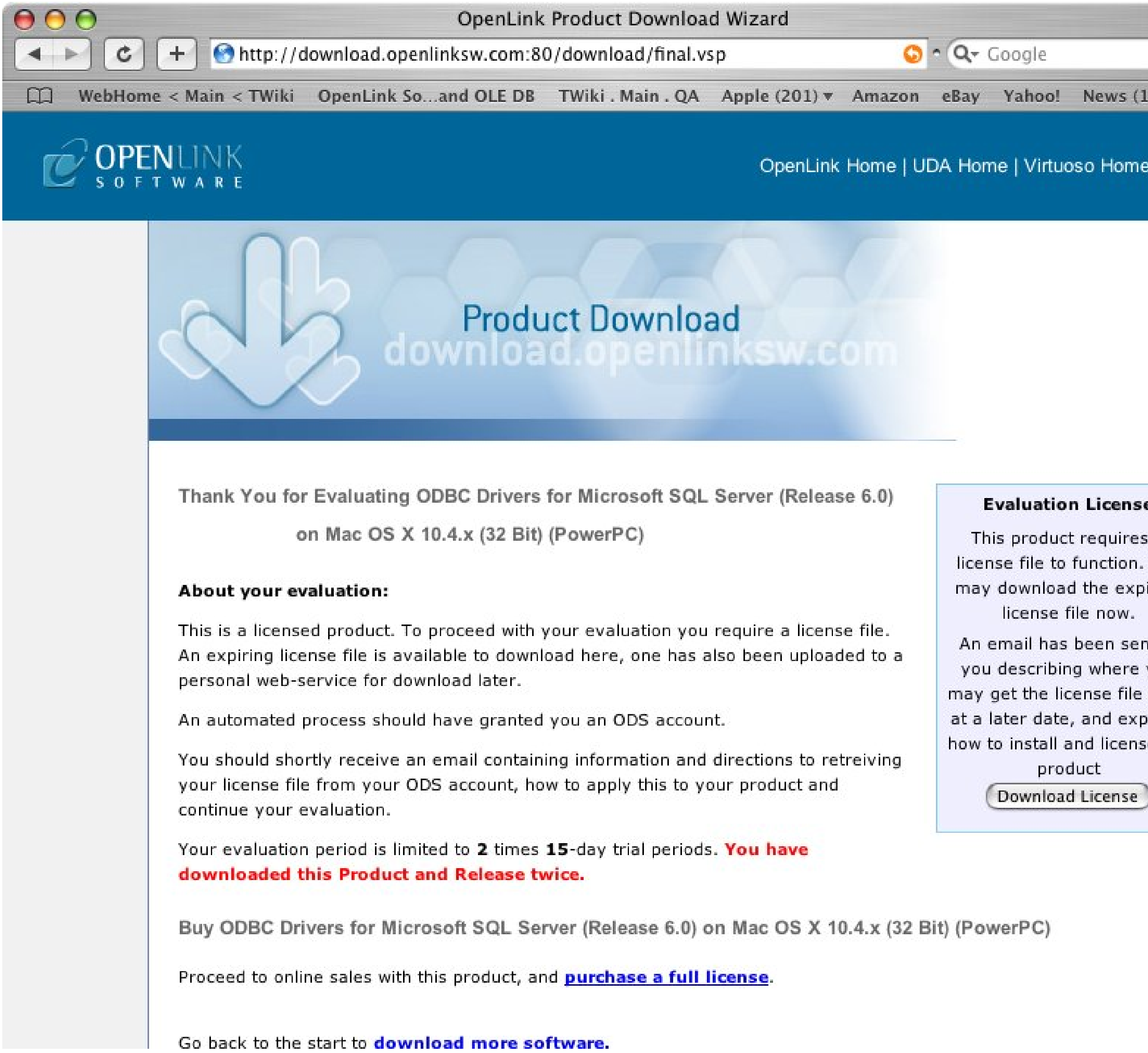
You can proceed directly to online sale this product to purchase a full license.

Go back to the start to **download more software.**

© 2005 OpenLink Software

Click on the 'download license' button to obtain the license file immediately and save to your desktop. Alternatively an auto e-mail will be sent to the registered users e-mail address with a link to their OpenLink Data Space (ODS) where all trial and full license files will be stored in the Briefcase for download at a later date.

Figure 11.13. SybaseInstall13.png



Thank You for Evaluating ODBC Drivers for Microsoft SQL Server (Release 6.0) on Mac OS X 10.4.x (32 Bit) (PowerPC)

About your evaluation:

This is a licensed product. To proceed with your evaluation you require a license file. An expiring license file is available to download here, one has also been uploaded to a personal web-service for download later.

An automated process should have granted you an ODS account.

You should shortly receive an email containing information and directions to retreiving your license file from your ODS account, how to apply this to your product and continue your evaluation.

Your evaluation period is limited to **2** times **15**-day trial periods. **You have downloaded this Product and Release twice.**

Buy ODBC Drivers for Microsoft SQL Server (Release 6.0) on Mac OS X 10.4.x (32 Bit) (PowerPC)

Proceed to online sales with this product, and **purchase a full license**.

Go back to the start to **download more software.**

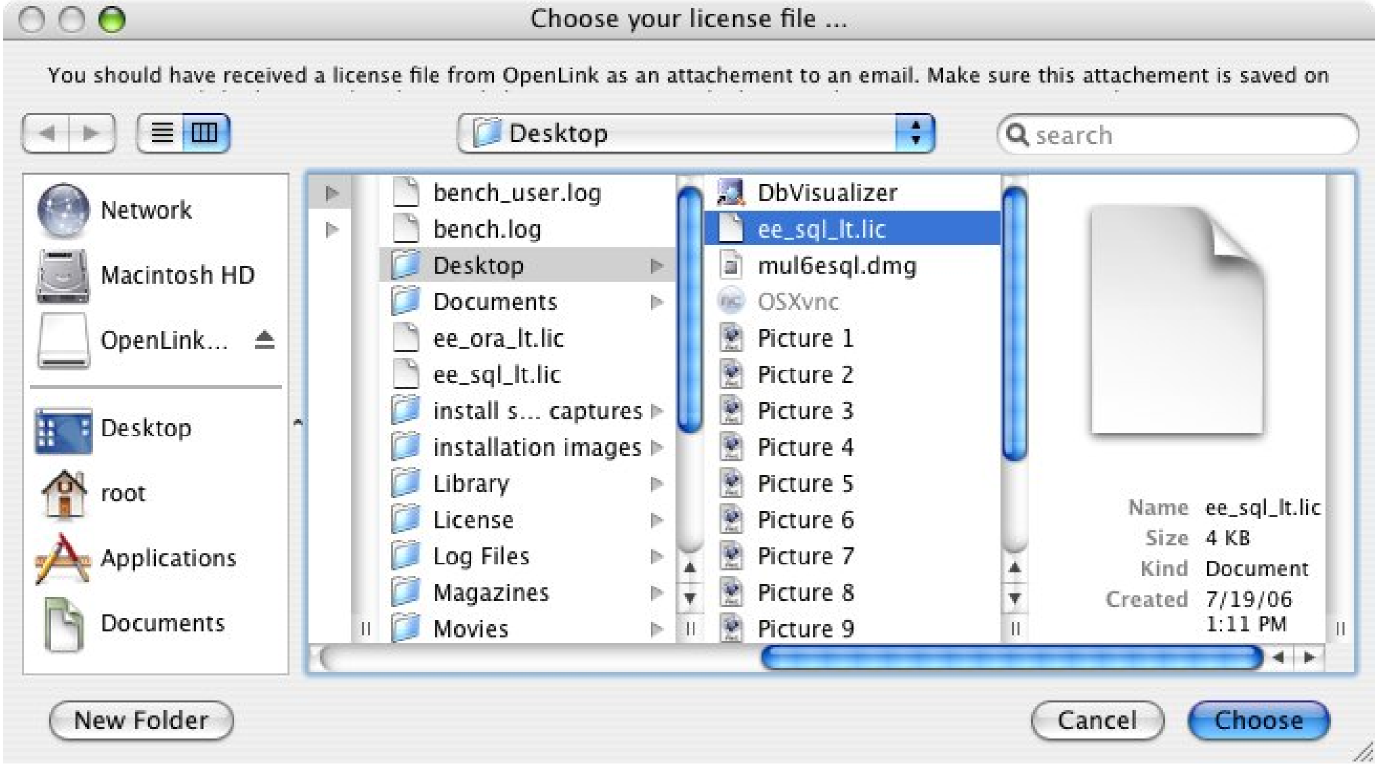
Evaluation License

This product requires license file to function. may download the expi license file now.

An email has been sen you describing where may get the license file at a later date, and exp how to install and licens product

Select the license file to be used for the installation:

Figure 11.14. SybaseInstall14.png



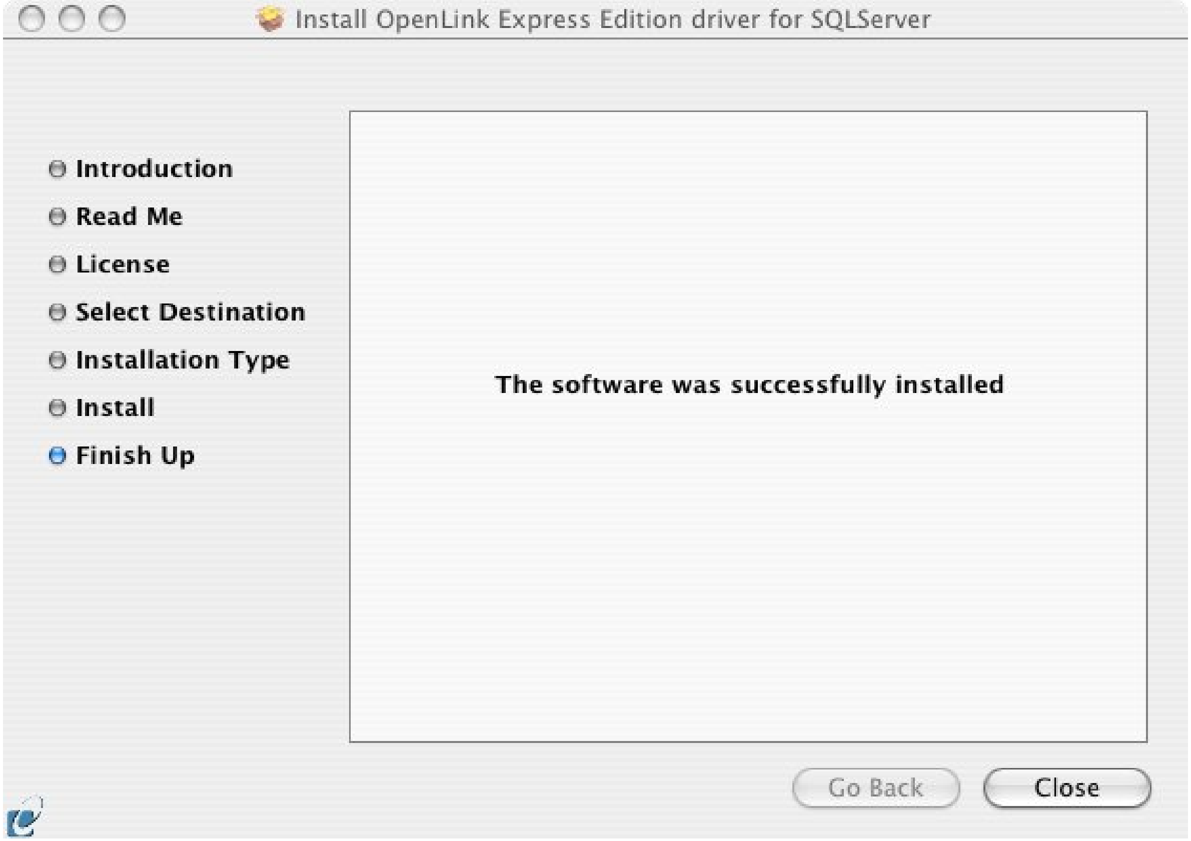
Choose your license file ...

You should have received a license file from OpenLink as an attachement to an email. Make sure this attachement is saved on

Name ee_sql_lt.lic
Size 4 KB
Kind Document
Created 7/19/06 1:11 PM

Installation is complete:

Figure 11.15. SybaseInstall15.png



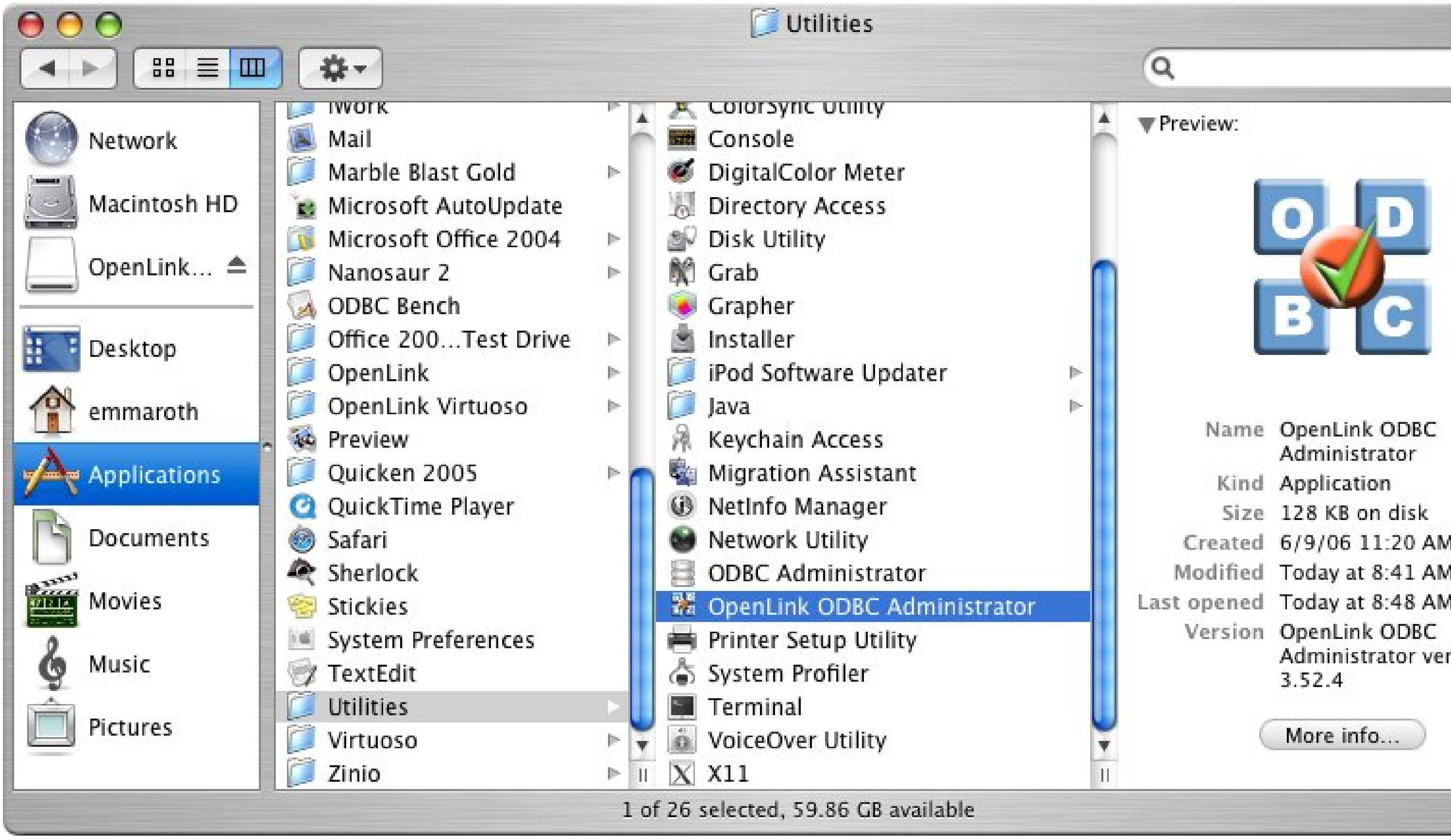
Install OpenLink Express Edition driver for SQLServer

The software was successfully installed

12.1.2 Configuration

To configure an ODBC DSN, run the OpenLink iODBC Administrator located in the /Applications/iODBC folder:

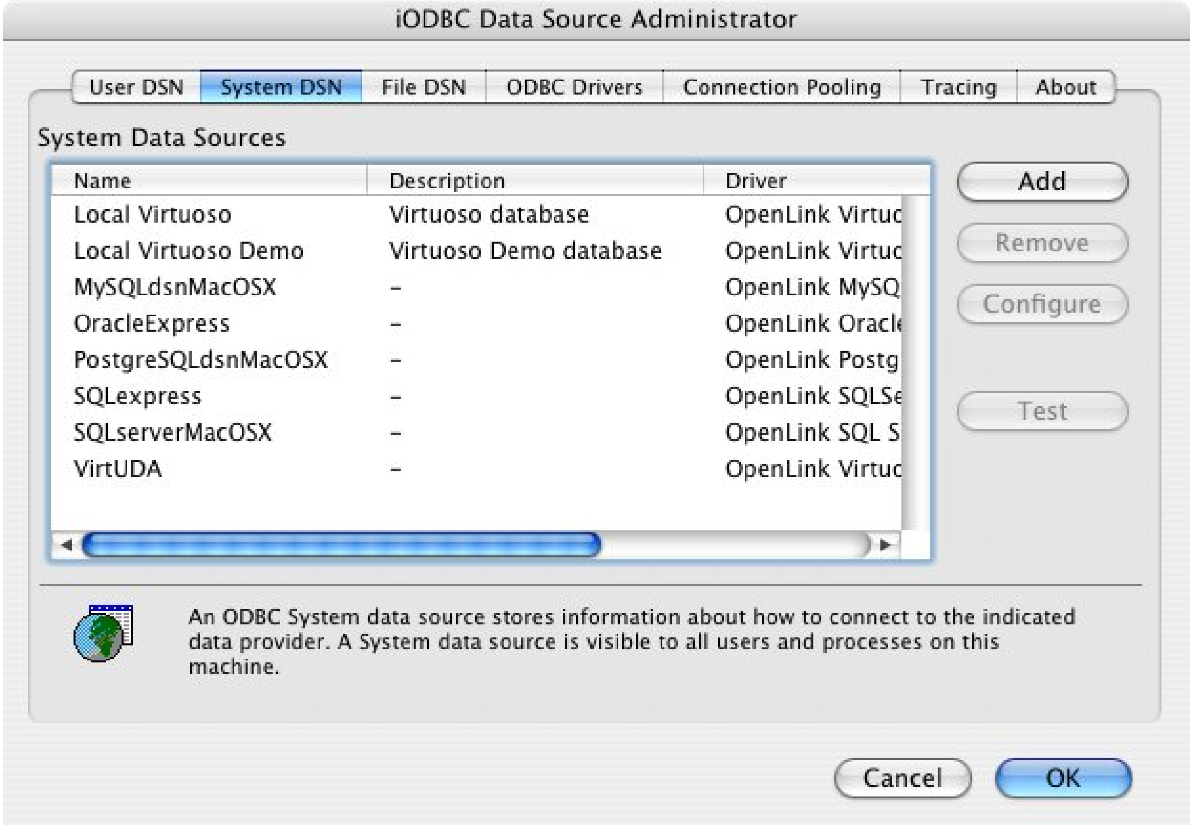
Figure 11.16. ODBCadmin.png



Name OpenLink ODBC Administrator
Kind Application
Size 128 KB on disk
Created 6/9/06 11:20 AM
Modified Today at 8:41 AM
Last opened Today at 8:48 AM
Version OpenLink ODBC Administrator ver 3.52.4

Click on the add button to Choose the ODBC Driver the DSN should be created for:

Figure 11.17. SybaseConfig1.png



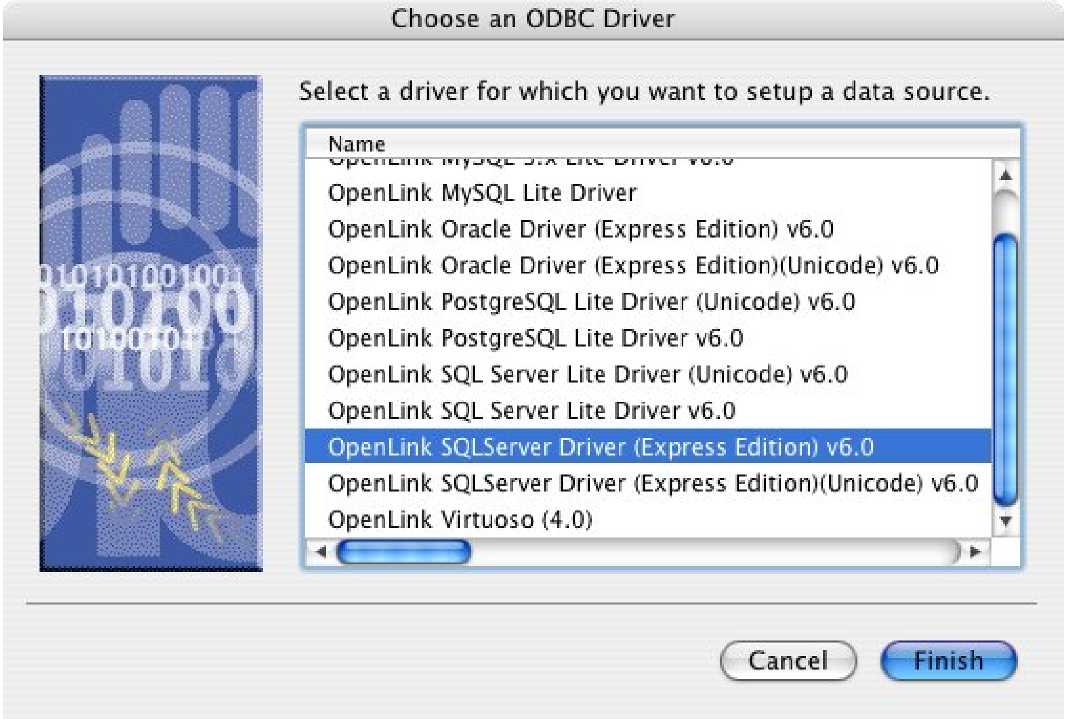
System Data Sources

Name	Description	Driver
Local Virtuoso	Virtuoso database	OpenLink Virtuc
Local Virtuoso Demo	Virtuoso Demo database	OpenLink Virtuc
MySQLdsnMacOSX	-	OpenLink MySQ
OracleExpress	-	OpenLink Oracl
PostgreSQLdsnMacOSX	-	OpenLink Postg
SQLexpress	-	OpenLink SQLSe
SQLserverMacOSX	-	OpenLink SQL S
VirtUDA	-	OpenLink Virtuc

An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users and processes on this machine.

Choose the OpenLink Sybase Driver (Express Edition) v6.0 from the list of available drivers:

Figure 11.18. SybaseConfig2.png



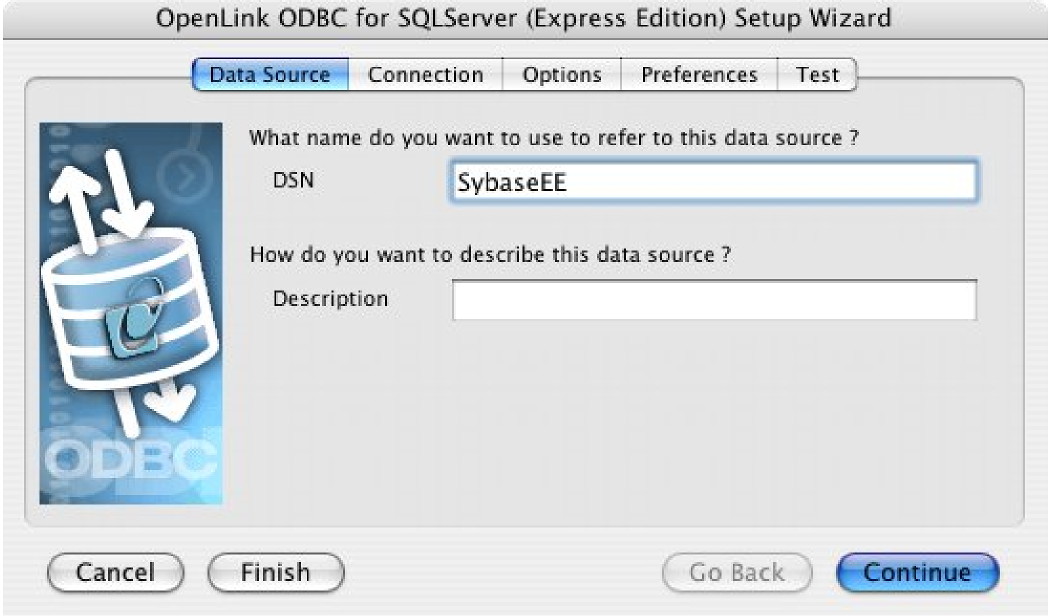
Choose an ODBC Driver

Select a driver for which you want to setup a data source.

Name
- OpenLink MySQL 5.x Lite Driver v6.0
- OpenLink MySQL Lite Driver
- OpenLink Oracle Driver (Express Edition) v6.0
- OpenLink Oracle Driver (Express Edition)(Unicode) v6.0
- OpenLink PostgreSQL Lite Driver (Unicode) v6.0
- OpenLink PostgreSQL Lite Driver v6.0
- OpenLink SQL Server Lite Driver (Unicode) v6.0
- OpenLink SQL Server Lite Driver v6.0
- OpenLink SQLServer Driver (Express Edition) v6.0
- OpenLink SQLServer Driver (Express Edition)(Unicode) v6.0
- OpenLink Virtuoso (4.0)

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 11.19. SybaseConfig3.png



OpenLink ODBC for SQLServer (Express Edition) Setup Wizard

What name do you want to use to refer to this data source ?

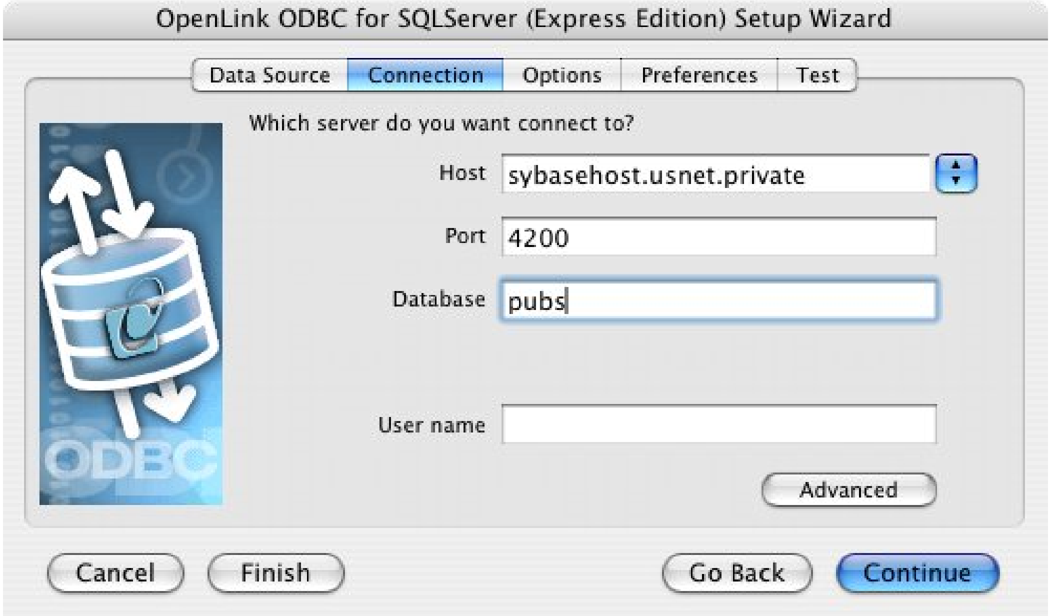
DSN: SybaseEE

How do you want to describe this data source ?

Description:

The Connection Tab request the minimum paramters required to make a connection to the target database:

Figure 11.20. SybaseConfig4.png



OpenLink ODBC for SQLServer (Express Edition) Setup Wizard

Which server do you want connect to?

Host: sybasehost.usnet.private

Port: 4200

Database: pubs

User name:

Host: This is the fully qualified hostname, or IP address, of the machine hosting the DBMS you wish to access, e.g., dbms-server.example.com, or 192.168.155.123. Any hostname which will be resolved by your local DNS is acceptable.

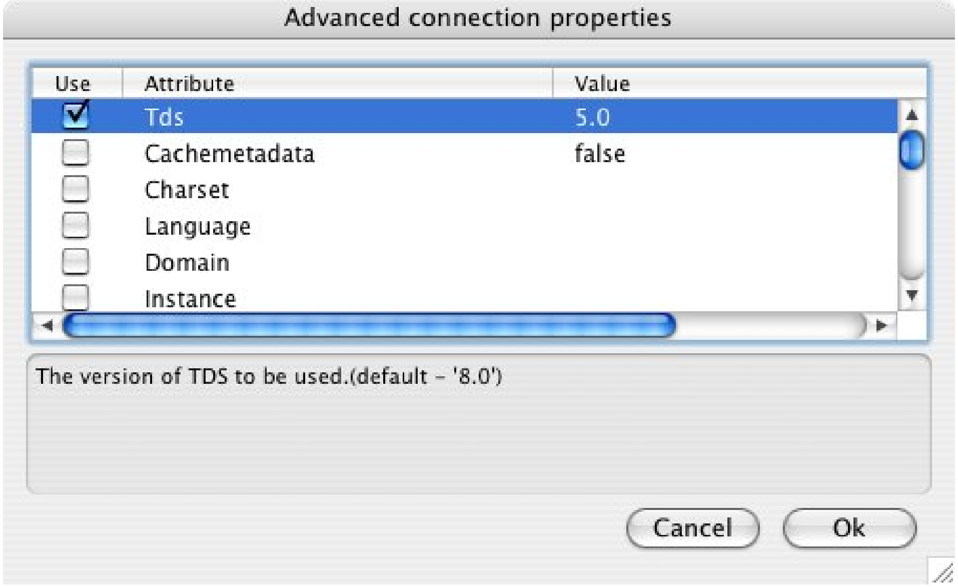
Port: This is the port on which Sybase is listening.

Database: This is the Sybase database to which you want to connect.

User Name: This is a valid user for the Sybase database.

The advanced button displays additional optional parameters that can be configured:

Figure 11.21. SybaseConfig5.png



Advanced connection properties

Use	Attribute	Value
☑	Tds	5.0
□	Cachemetadata	false
□	Charset	
□	Language	
□	Domain	
□	Instance	

The version of TDS to be used.(default - '8.0')

Table 11.1.

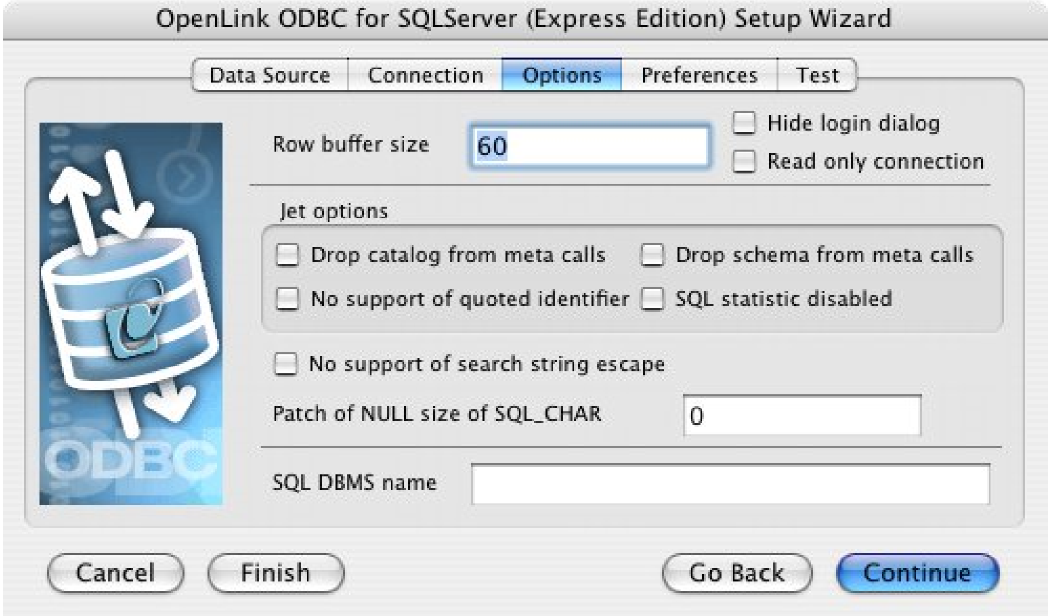
Tds	The version of TDS to be used.(default - '8.0')
Cachemetadata	When used with prepareSQL=3, setting this property to true will cause the driver to cache column meta data for SELECT statements. Use with care.(default - false)
Charset	A very important setting; this determines the byte value to character mapping for CHAR/VARCHAR/TEXT values. Applies for characters from the extended set (codes 128-255). For NCHAR/NVARCHAR/NTEXT values doesn't have any effect since these are stored using Unicode. (By default set to the character set with which

	the server was installed.)
Language	Applies for characters from the extended set (codes 128-255). For NCHAR/NVARCHAR/NTEXT values doesn't have any effect since these are stored using Unicode. (By default set to the character set with which the server was installed.)
Domain	Specifies the Windows domain in which to authenticate. If present and the user name and password are provided, it uses Windows (NTLM) authentication instead of the usual SQL Server authentication (i.e. the user and password provided are the domain user and password). This allows non-Windows clients to log in to servers which are only configured to accept Windoes authentication.
Instance	Named instance to connect to. Sybase can run multiple so-called 'named instances' (i.e. different server instances, running on different TCP ports) on the same machine. When using Microsoft tools, selecting one of these instances is made by using '[host_name]\[instance_name]' instead of the usual '[host_name]'. You will have to split the two and use the instance name as a property.
AppName	Application name. Of little practical use, it is displayed by Enterprise Manager or Profiler associated with the connection.
ProgName	Client library name. Of little practical use, it is displayed by Enterprise Manager or Profiler associated with the connection.
Wsid	Workstation ID. Of little practical use, it is displayed by Enterprise Manager or Profiler associated with the connection.(default - the client host name)
MacAddress	Network interface card MAC address.(default - '000000000000')
SendStringParametersAsUnicode	Determines whether string parameters are sent to the SQL Server database in Unicode or in the default character encoding of the database.(default - true)
LastUpdateCount	If true only the last update count will be returned by executeUpdate(). This is useful in case you are updating or inserting into tables that have triggers (such as replicated tables); there's no way to make the difference between an update count returned by a trigger and the actual update count but the actual update count is always the last as the triggers execute first. If false all update counts are returned; use getMoreResults() to loop through them. (default - true)
PrepareSQL	This parameter specifies the mechanism used for Prepared Statements.(default - 3 for SQL Server)
PacketSize	The network packet size (a multiple of 512).(default - 4096 for TDS 7.0/8.0; 512 for TDS 4.2/5.0)
TcpNoDelay	true to enable TCP_NODELAY on the socket; false to disable it.(default - true)
LobBuffer	The amount of LOB data to buffer in memory before caching to disk. The value is in bytes for Blob data and chars for Clob data. (By default, 32768)
MaxStatements	The number of statement prepares each connection should cache. A value of 0 will disable statement caching.(default - 500)
LoginTimeout	The amount of time to wait (in seconds) for a successful connection before timing out. If namedPipe is true and loginTimeout is non-zero, the value of loginTimeout is used for the retry timeout when 'All pipe instances are busy' error messages are received while attempting to connect to the server. If namedPipe is true and loginTimeout is zero (the default), a value of 20 seconds is used for the named pipe retry timeout. (default - 0)
SocketTimeout	The amount of time to wait (in seconds) for network activity before timing out. Use with care! If a non-zero value is supplied this must be greater than the maximum time that the server will take to answer any query. Once the timeout value is exceeded the network connection will be closed. This parameter may be useful for detecting dead network connections in a pooled environment. (By default, 0.)
NamedPipe	When set to true, named pipe communication is used to connect to the database instead of TCP/IP sockets. When the os.name system property starts with 'windows' (case-insensitive), named pipes (both local and remote) are accessed through the Windows filesystem by opening a RandomAccessFile to the path. When the SQL Server and the client are on the same machine, a named pipe will usually have better performance than TCP/IP sockets since the network layer is eliminated.

Ssl	Specifies if and how to use SSL for secure communication.(default - off)
BatchSize	Controls how many statements are sent to the server in a batch. The actual batch is broken up into pieces this large that are sent separately. (By default, 0 (unlimited) for SQL Server)
UseCursors	Instructs the driver to use server-side cursors instead of direct selects (AKA firehose cursors) for forward-only read-only result sets (with other types of result sets server- or client-side cursors are always used). (By default, false.)
BufferMaxMemory	Controls the global buffer memory limit for all connections (in kilobytes). When the amount of buffered server response packets reaches this limit additional packets are buffered to disk; there is however one exception: each Statement gets to buffer at least '[bufferMinPackets]' to memory before this limit is enforced. This means that this limit can and will usually be exceeded. (By default, 1024.)
BufferMinPackets	Controls the minimum number of packets per statement to buffer to memory. Each Statement will buffer at least this many packets before being forced to use a temporary file if the [bufferMaxMemory] is reached, to ensure good performance even when one Statement caches a very large amount of data. (By default, 8.)
UseLOBs	Controls whether large types (IMAGE and TEXT/NTEXT) should be mapped by default (when using getObject()) to LOBs. The default type constant returned is also controlled by this property: BLOB for IMAGE and CLOB for TEXT/NTEXT when true, LONGVARBINARY for IMAGE and LONGVARCHAR for TEXT/NTEXT when false. (By default, true.)

As indicated above the paramters of the options and preferences tabs are not required for a basic connection:

Figure 11.22. SybaseConfig6.png



OpenLink ODBC for SQLServer (Express Edition) Setup Wizard

Row buffer size: 60

□ Hide login dialog

□ Read only connection

Jet options

□ Drop catalog from meta calls

□ Drop schema from meta calls

□ No support of quoted identifier

□ SQL statistic disabled

□ No support of search string escape

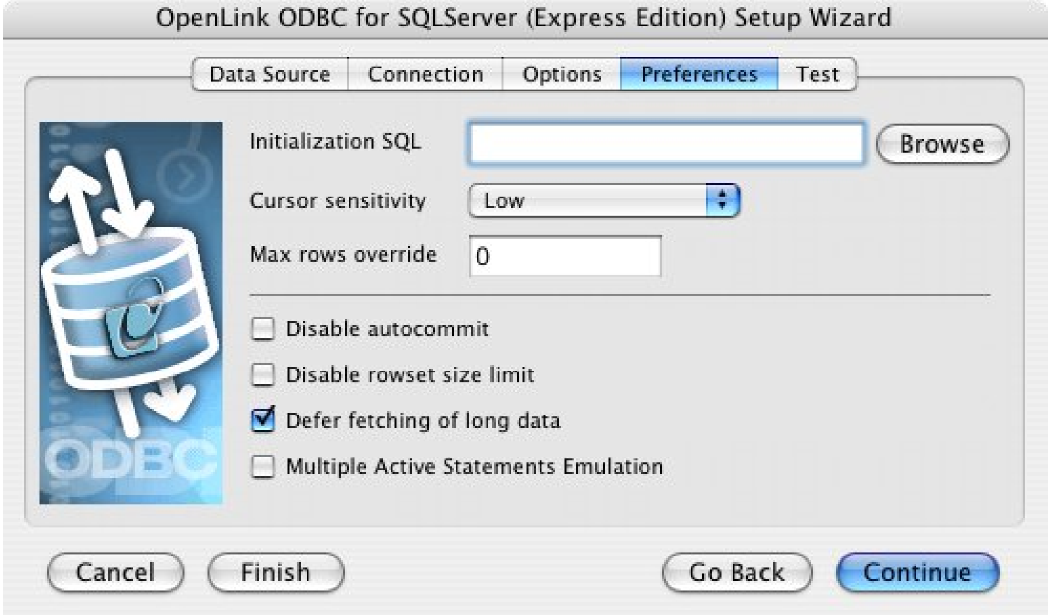
Patch of NULL size of SQL_CHAR: 0

SQL DBMS name:

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.
- *Hide Login Dialog* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.
- *Read Only connection* - Specify whether the connection is to be read-only. Make sure the checkbox is unchecked to request a read/write connection.
- *Drop Catalog from Meta calls* - Enable this option to have the catalog name not appear for tables, views and procedures when requesting database metadata.
- *Drop Schema from Meta calls* - Enable this option to have the schema-name not appear for tables, views and procedures when requesting database metadata.
- *SQLStatistics disabled* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table (e.g. what indexes there are on it).

- *No support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if DBMS doesn't support quoted SQL such as select * from "account"
- *No support of search string escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if DBMS doesn't support SQL escape patterns
- *Patch of NULL size of SQL_CHAR* - If set this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0 the driver uses the size returned by the database.
- *SQL_DBMS Name* - Manually override the SQLGetInfo (SQL_DBMS_NAME) response returned by the driver. This is known to be required for products like Microsoft InfoPath for which the return the value should be "SQL Server".

Figure 11.23. SybaseConfig7.png



OpenLink ODBC for SQLServer (Express Edition) Setup Wizard

Initialization SQL:

Cursor sensitivity: Low

Max rows override: 0

☐ Disable autocommit

☐ Disable rowset size limit

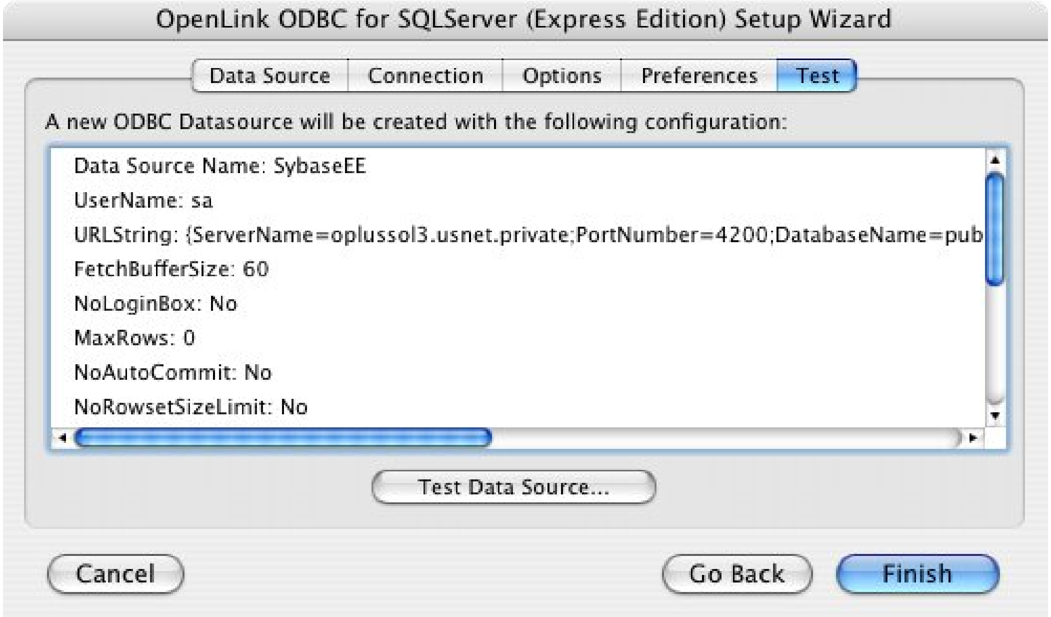
☑ Defer fetching of long data

☐ Multiple Active Statements Emulation

- *Initialization SQL* - Lets you specify a file containing SQL statements that will be run against the database upon connection, automatically.
- *Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows don't appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate script for the target database.
- *MaxRows Override* - Allows you to define a limit on the maximum number of rows to returned from a query. The default value of 0 means no limit.
- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Lite Driver. The default mode is AutoCommit mode (box unchecked).
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset is generated from an erroneous query is very large. The limit is normally never reached.
- *Defer fetching of long data* - Defer fetching of LONG (BINARY, BLOB etc.) data unless explicitly requested in query. This provides significant performance increase when fields in query does not include LONG data fields.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Click on the 'Test Data Source' button to make a connection to the database to verify connectivity:

Figure 11.24. SybaseConfig8.png



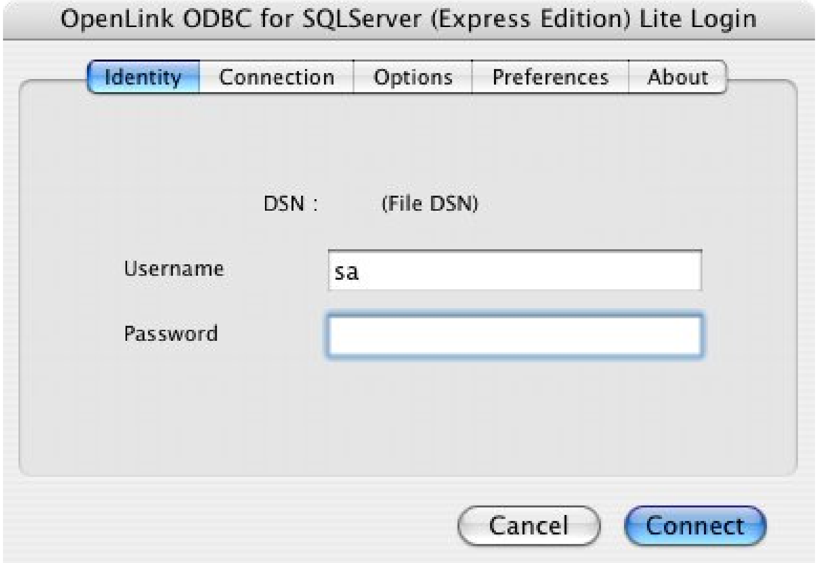
OpenLink ODBC for SQLServer (Express Edition) Setup Wizard

A new ODBC Datasource will be created with the following configuration:

Data Source Name: SybaseEE
UserName: sa
URLString: {ServerName=oplussol3.usnet.private;PortNumber=4200;DatabaseName=pub
FetchBufferSize: 60
NoLoginBox: No
MaxRows: 0
NoAutoCommit: No
NoRowsetSizeLimit: No

Enter a vaild username and pasword for the database:

Figure 11.25. SybaseConfig9.png



OpenLink ODBC for SQLServer (Express Edition) Lite Login

DSN : (File DSN)

Username: sa

Password:

A successful connection to the database has been made:

12.2 OpenLink ODBC Driver for Sybase (Express Editon) for Windows

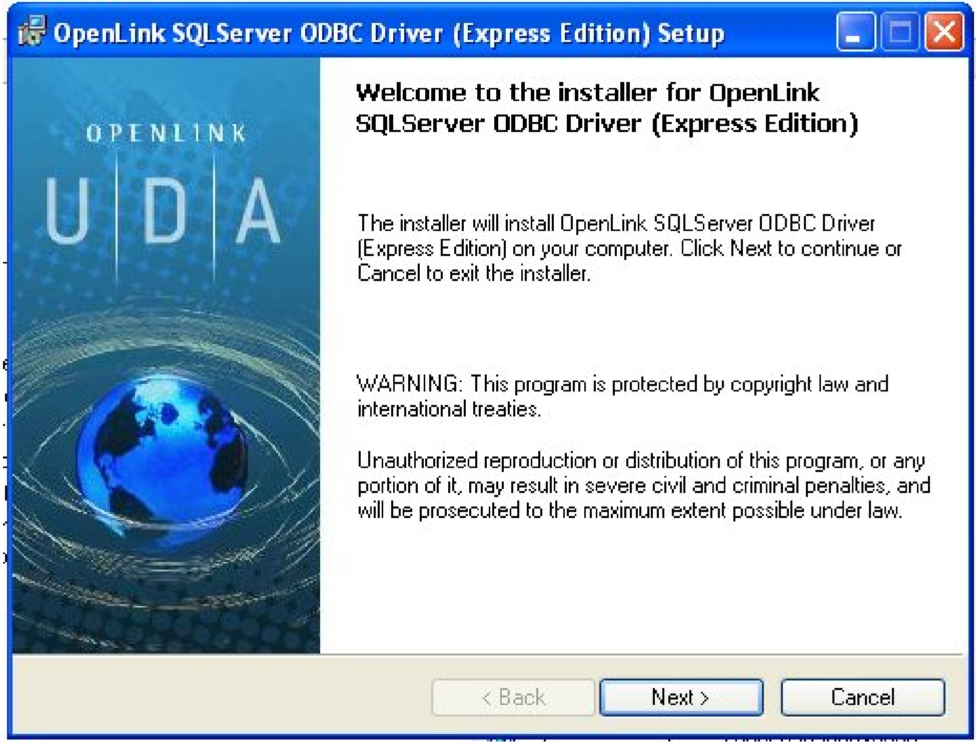
12.2.1 Installation

The OpenLink ODBCDriver for Sybase (Express Edition is a distributed as a Windows MSI installer. Simply double click on the installer 'ntl6esql.msi' to commence the installation:

Figure 11.26. EEWinsybinst01.png

Installer Welcome Dialog for the OpenLink ODBCDriver for SQLServer (Express Edition):

Figure 11.27. EEWinsybinst02.png



Welcome to the installer for OpenLink SQLServer ODBC Driver (Express Edition)

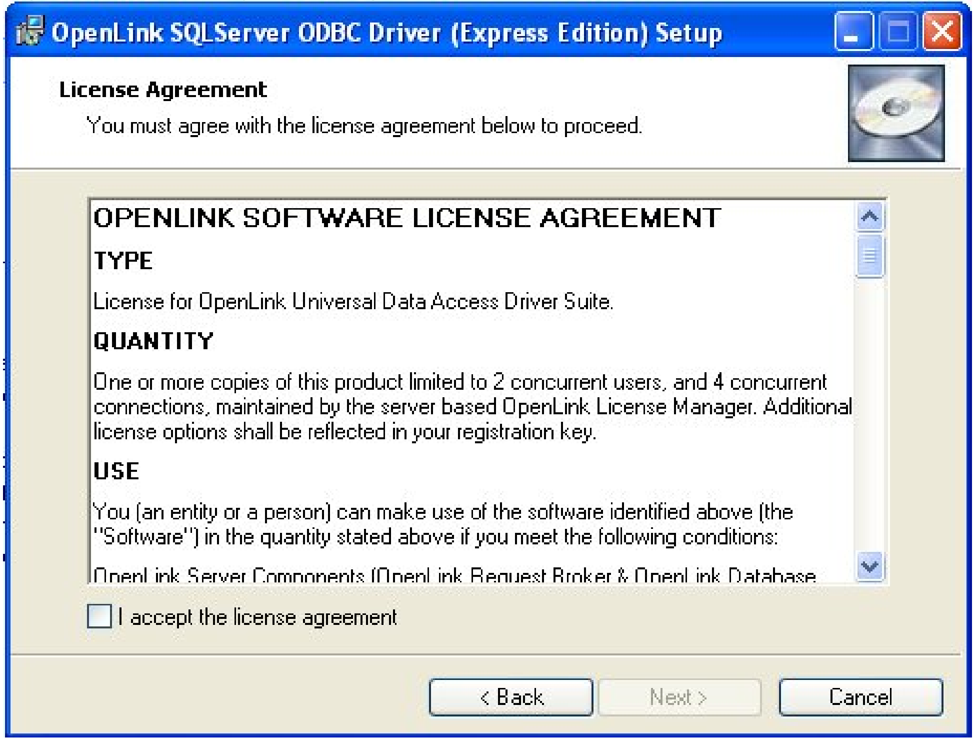
The installer will install OpenLink SQLServer ODBC Driver (Express Edition) on your computer. Click Next to continue or Cancel to exit the installer.

WARNING: This program is protected by copyright law and international treaties.

Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.

Please read the software license agreement and accept before continuing your installation:

Figure 11.28. EEWinsybinst03.png



License Agreement

You must agree with the license agreement below to proceed.

OPENLINK SOFTWARE LICENSE AGREEMENT

TYPE

License for OpenLink Universal Data Access Driver Suite.

QUANTITY

One or more copies of this product limited to 2 concurrent users, and 4 concurrent connections, maintained by the server based OpenLink License Manager. Additional license options shall be reflected in your registration key.

USE

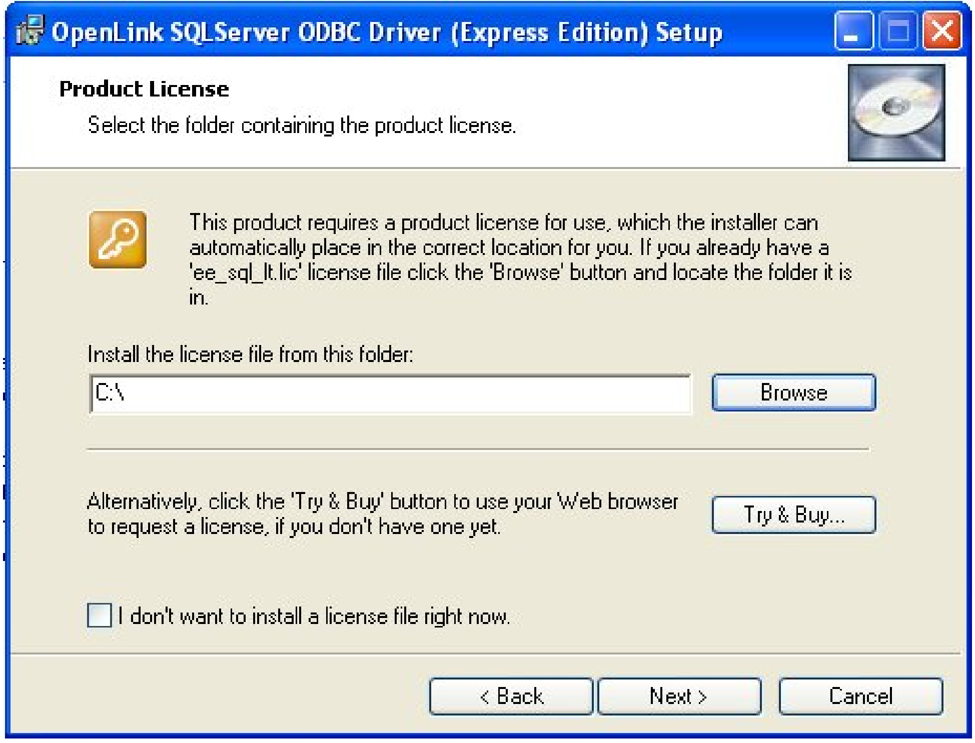
You (an entity or a person) can make use of the software identified above (the "Software") in the quantity stated above if you meet the following conditions:

OpenLink Server Components (OpenLink Request Broker & OpenLink Database

□ I accept the license agreement

Before installation you will be prompted for a license file. If a license file already exists on the machine then select the 'use exisiting file' option. A trial (try) or full (buy) license can be obtain by selecting the 'try and buy' option which loads our online try and buy web page:

Figure 11.29. EEWinsybinst04.png



OpenLink SQLServer ODBC Driver (Express Edition) Setup

Product License

Select the folder containing the product license.

This product requires a product license for use, which the installer can automatically place in the correct location for you. If you already have a 'ee_sql_lt.lic' license file click the 'Browse' button and locate the folder it is in.

Install the license file from this folder:

C:\

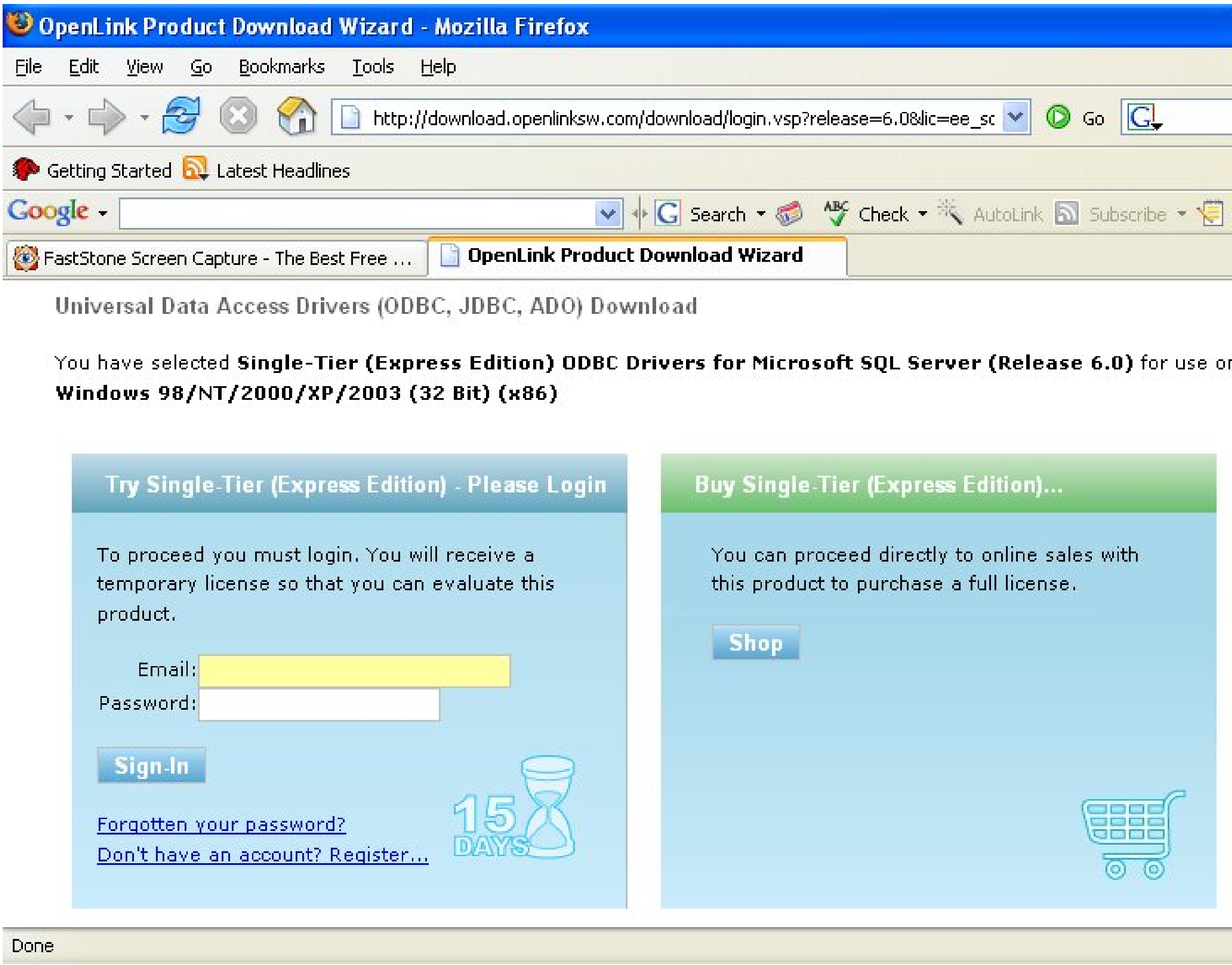
Alternatively, click the 'Try & Buy' button to use your Web browser to request a license, if you don't have one yet.

□ I don't want to install a license file right now.

To obtain the trial license you must be a registered user on the OpenLinkWeb site and login with the username (e-mail address) and password for that user. Click on the 'Shop' link to visit our online shop cart to purchases a full license if required:

Click on the 'download license' button to obtain the license file immediately and save to your desktop. Alternatively an auto e-mail will be sent to the registered users e-mail address with a link to their OpenLinkData Space (ODS) where all trial and full license files will be stored in the Briefcase for download at a later date.

Figure 11.30. EEWinsybinst05.png



OpenLink Product Download Wizard - Mozilla Firefox
File Edit View Go Bookmarks Tools Help
Go
Getting Started Latest Headlines
Google Search Check AutoLink Subscribe
FastStone Screen Capture - The Best Free ...
OpenLink Product Download Wizard
15 DAYS
Done

http://download.openlinksw.com/download/login.vsp?release=6.0&lic=ee_sc

Universal Data Access Drivers (ODBC, JDBC, ADO) Download

You have selected **Single-Tier (Express Edition) ODBC Drivers for Microsoft SQL Server (Release 6.0)** for use or **Windows 98/NT/2000/XP/2003 (32 Bit) (x86)**

Try Single-Tier (Express Edition) - Please Login

To proceed you must login. You will receive a temporary license so that you can evaluate this product.

Email:

Password:

Sign-In

Forgotten your password?

Don't have an account? Register...

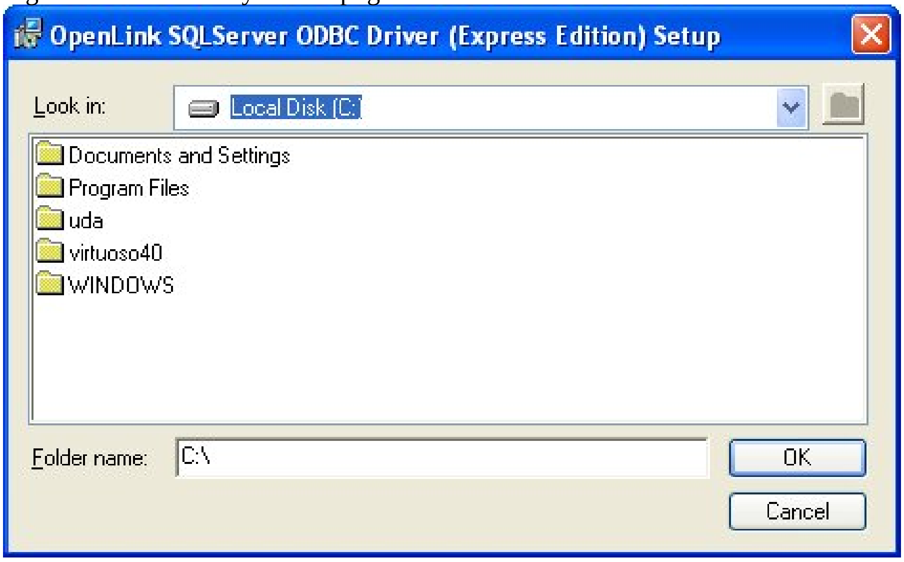
Buy Single-Tier (Express Edition)...

You can proceed directly to online sales with this product to purchase a full license.

Shop

Select the license file to be used for the installation:

Figure 11.31. EEWinsybinst06.png

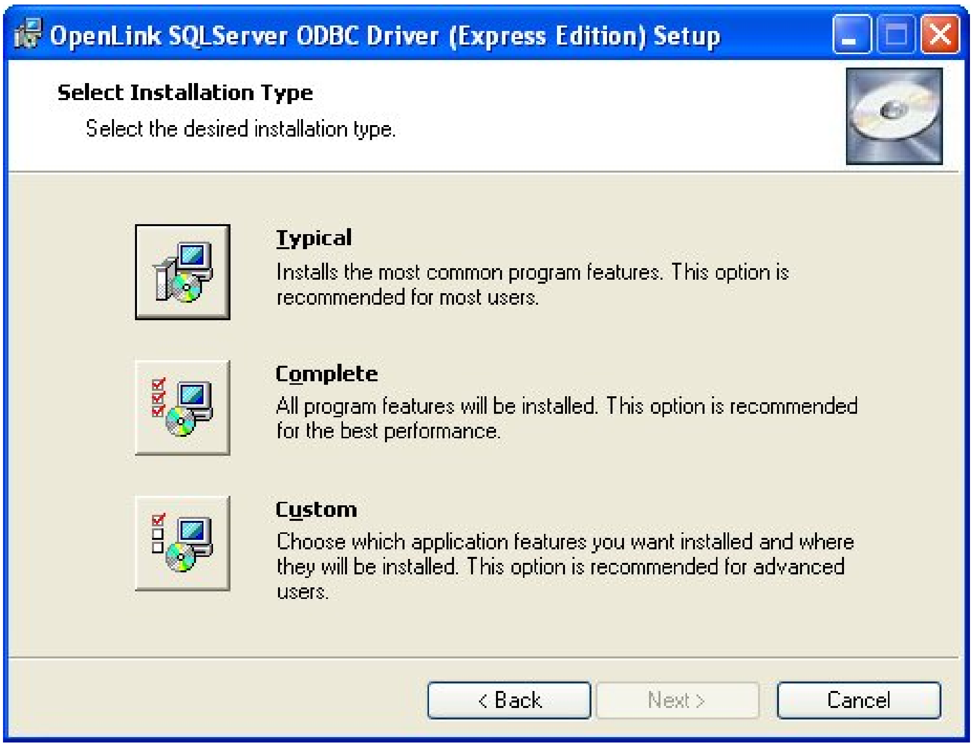


Look in: Local Disk (C:)

Folder name: C:\

Choose to perform a custom, typical or complete installation of the driver:

Figure 11.32. EEWinsybinst07.png



OpenLink SQLServer ODBC Driver (Express Edition) Setup

Select Installation Type

Select the desired installation type.

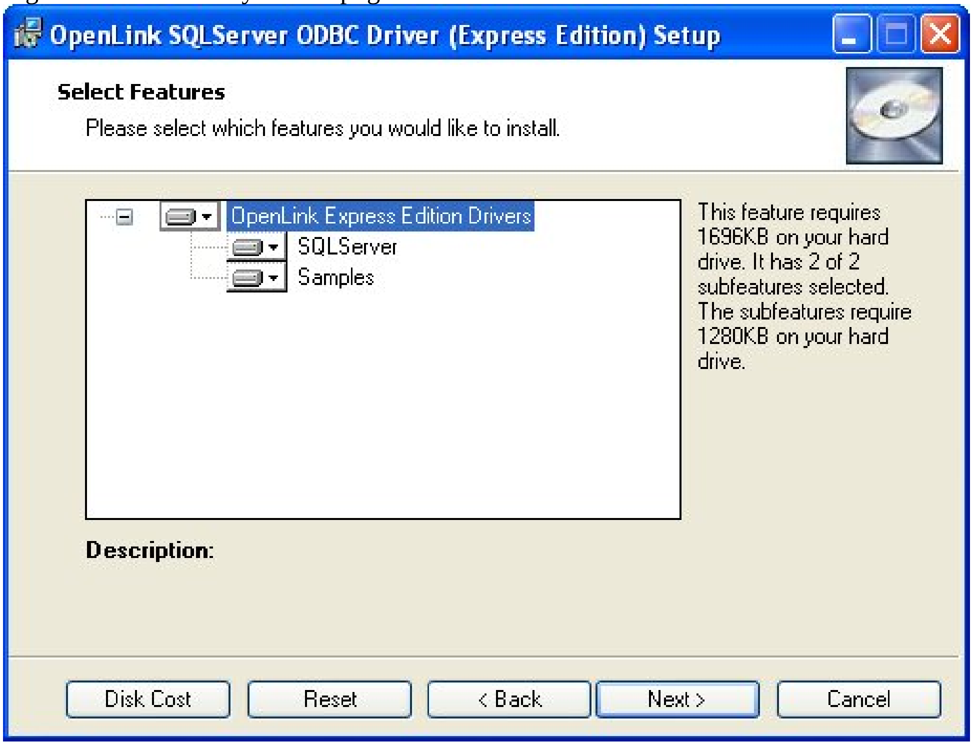
Typical
Installs the most common program features. This option is recommended for most users.

Complete
All program features will be installed. This option is recommended for the best performance.

Custom
Choose which application features you want installed and where they will be installed. This option is recommended for advanced users.

Select the features to be installed:

Figure 11.33. EEWinsybinst09.png



OpenLink SQLServer ODBC Driver (Express Edition) Setup

Select Features

Please select which features you would like to install.

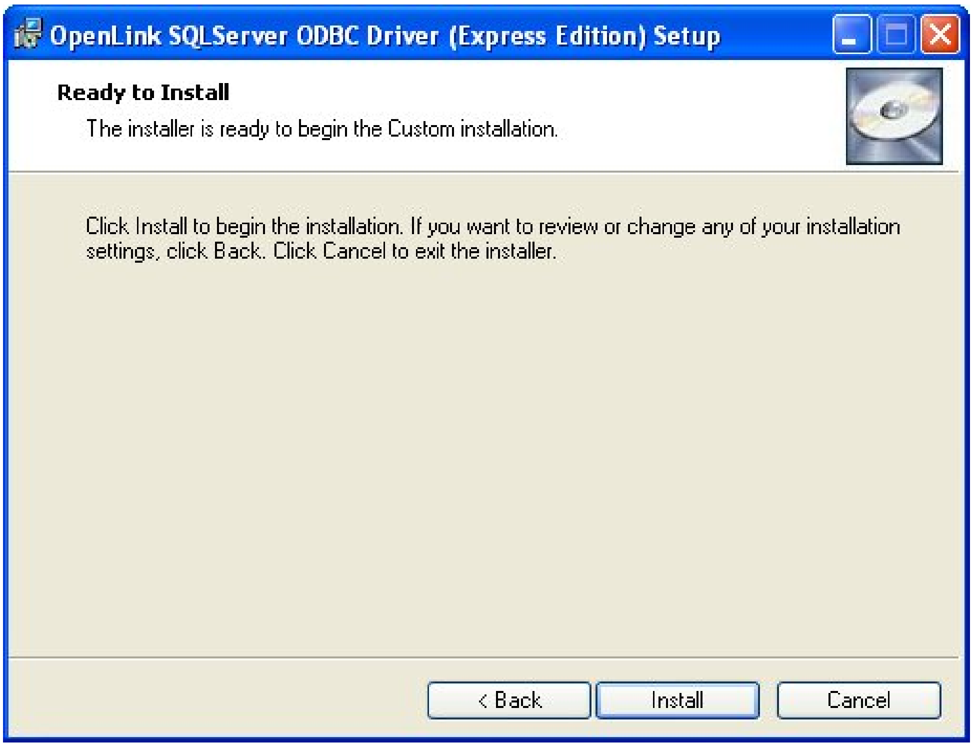
- OpenLink Express Edition Drivers
  - SQLServer
  - Samples

This feature requires 1696KB on your hard drive. It has 2 of 2 subfeatures selected. The subfeatures require 1280KB on your hard drive.

Description:

Click the install button to begin the installation of components:

Figure 11.34. EEWinsybinst10.png



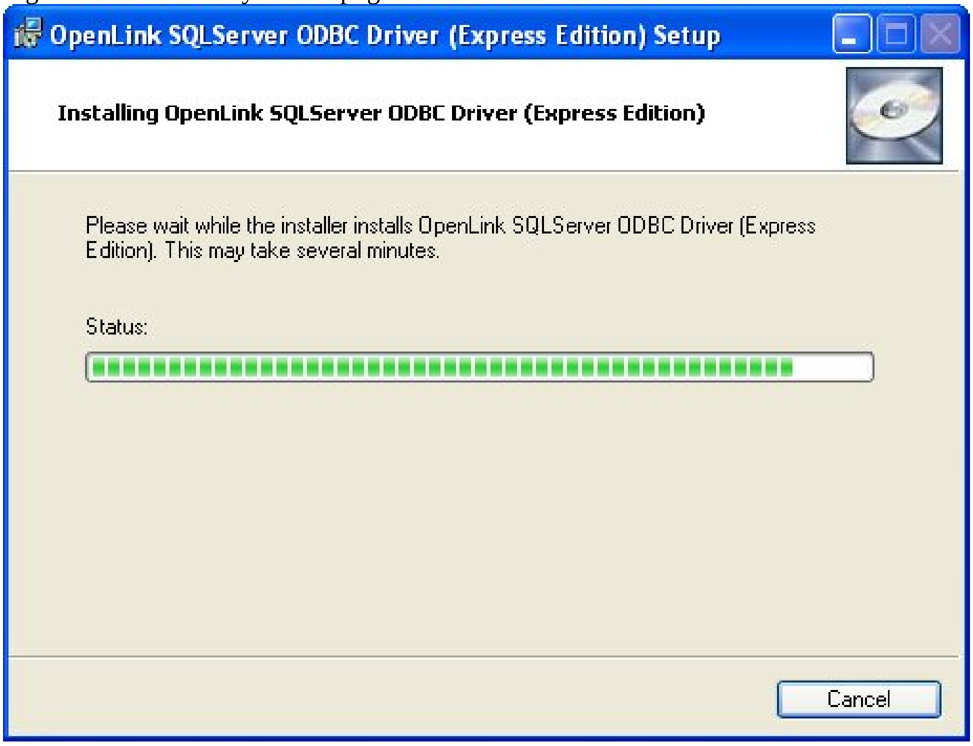
Ready to Install

The installer is ready to begin the Custom installation.

Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the installer.

Installation in progress:

Figure 11.35. EEWinsybinst11.png



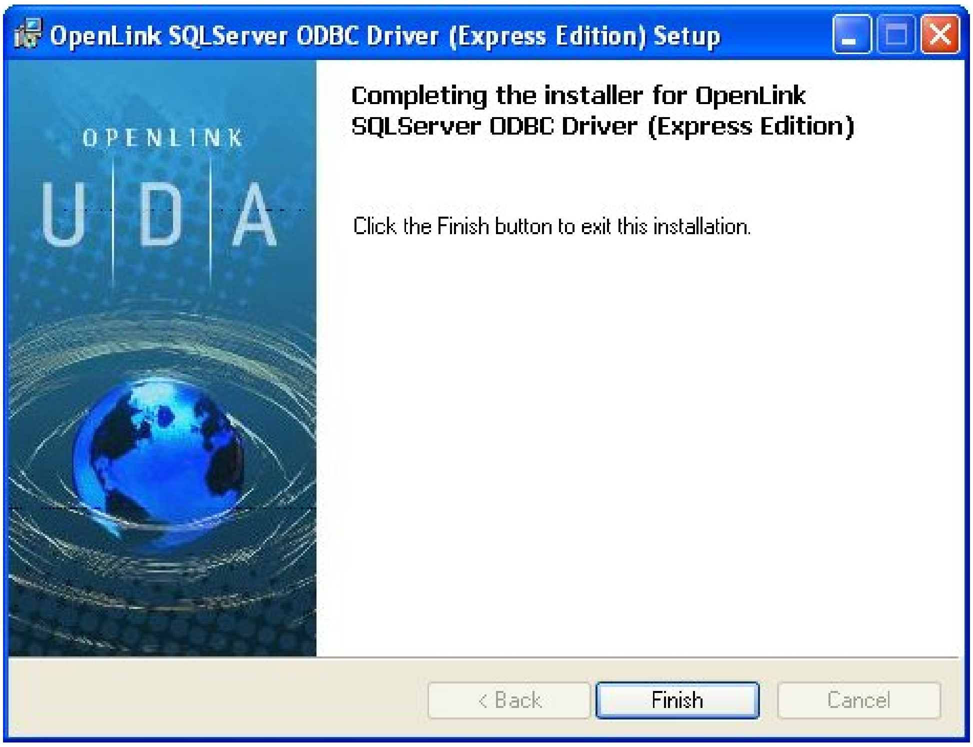
Installing OpenLink SQLServer ODBC Driver (Express Edition)

Please wait while the installer installs OpenLink SQLServer ODBC Driver (Express Edition). This may take several minutes.

Status:

The Software installation is complete and ready for use:

Figure 11.36. EEWinsybinst12.png



OpenLink SQLServer ODBC Driver (Express Edition) Setup

Completing the installer for OpenLink SQLServer ODBC Driver (Express Edition)

Click the Finish button to exit this installation.

12.2.2 Configuration

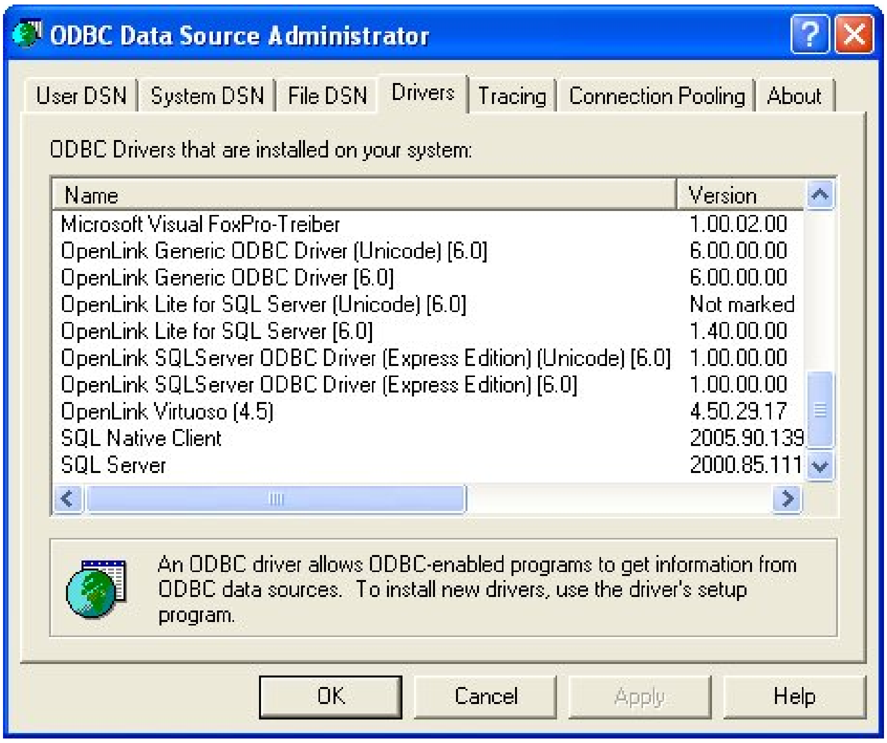
To configure an ODBCDSN, run the ODBCAdministrator located in the Administrative Tools section of the Control Panel:

Figure 11.37. EEWinsybconf01.png

Data Sources (ODBC)
Shortcut
2 KB

Click on the drivers Tab to confirm the OpenLinkSQLServer ODBCDriver [Express Edition][6.0] has been successfully installed

Figure 11.38. EEWinsybconf02.png



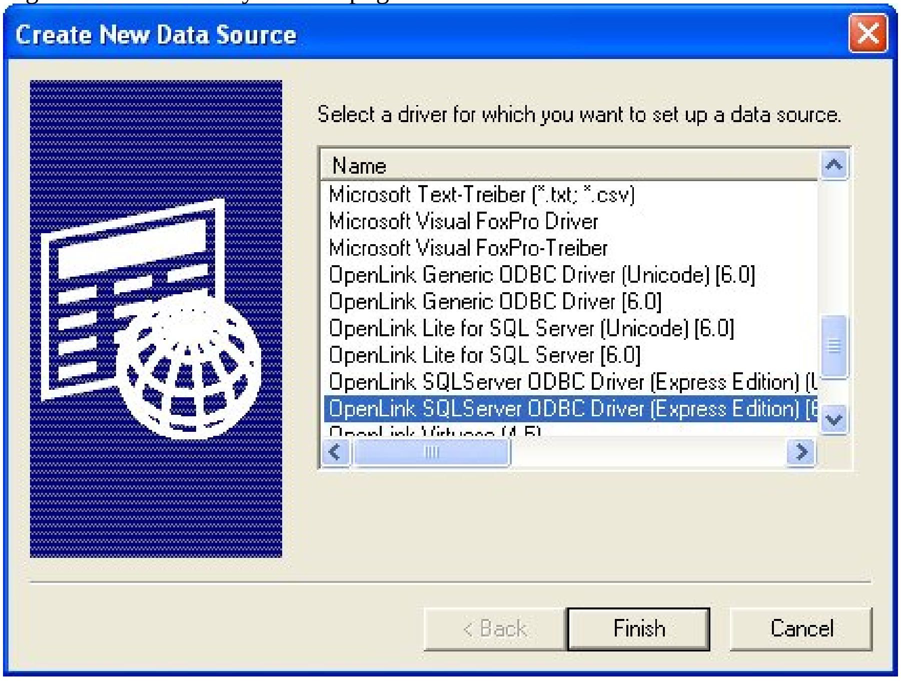
ODBC Drivers that are installed on your system:

Name	Version
Microsoft Visual FoxPro-Treiber	1.00.02.00
OpenLink Generic ODBC Driver (Unicode) [6.0]	6.00.00.00
OpenLink Generic ODBC Driver [6.0]	6.00.00.00
OpenLink Lite for SQL Server (Unicode) [6.0]	Not marked
OpenLink Lite for SQL Server [6.0]	1.40.00.00
OpenLink SQLServer ODBC Driver (Express Edition) (Unicode) [6.0]	1.00.00.00
OpenLink SQLServer ODBC Driver (Express Edition) [6.0]	1.00.00.00
OpenLink Virtuoso (4.5)	4.50.29.17
SQL Native Client	2005.90.139
SQL Server	2000.85.111

An ODBC driver allows ODBC-enabled programs to get information from ODBC data sources. To install new drivers, use the driver's setup program.

From either the User or System DSN tabs click on the Add button and select the OpenLinkSQLServer ODBCDriver [Express Edition][6.0] from the list presented to create an ODBCDSN :

Figure 11.39. EEWinsybconf03.png

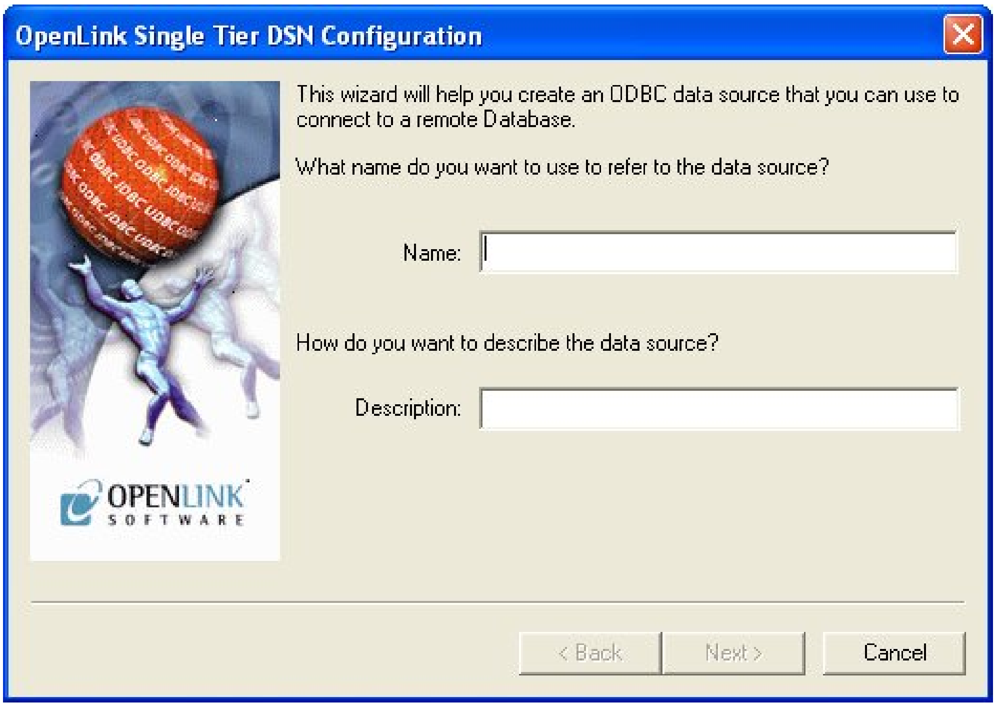


Select a driver for which you want to set up a data source.

Name
- Microsoft Text-Treiber (*.txt; *.csv)
- Microsoft Visual FoxPro Driver
- Microsoft Visual FoxPro-Treiber
- OpenLink Generic ODBC Driver (Unicode) [6.0]
- OpenLink Generic ODBC Driver [6.0]
- OpenLink Lite for SQL Server (Unicode) [6.0]
- OpenLink Lite for SQL Server [6.0]
- OpenLink SQLServer ODBC Driver (Express Edition) (U
- OpenLink SQLServer ODBC Driver (Express Edition) [6
- OpenLink Virtuoso (4.5)

In the Data Source tab, select a suitable DSN name and optional description for the Data Source to be created:

Figure 11.40. EEWinsybconf04.png



OpenLink Single Tier DSN Configuration

This wizard will help you create an ODBC data source that you can use to connect to a remote Database.

What name do you want to use to refer to the data source?

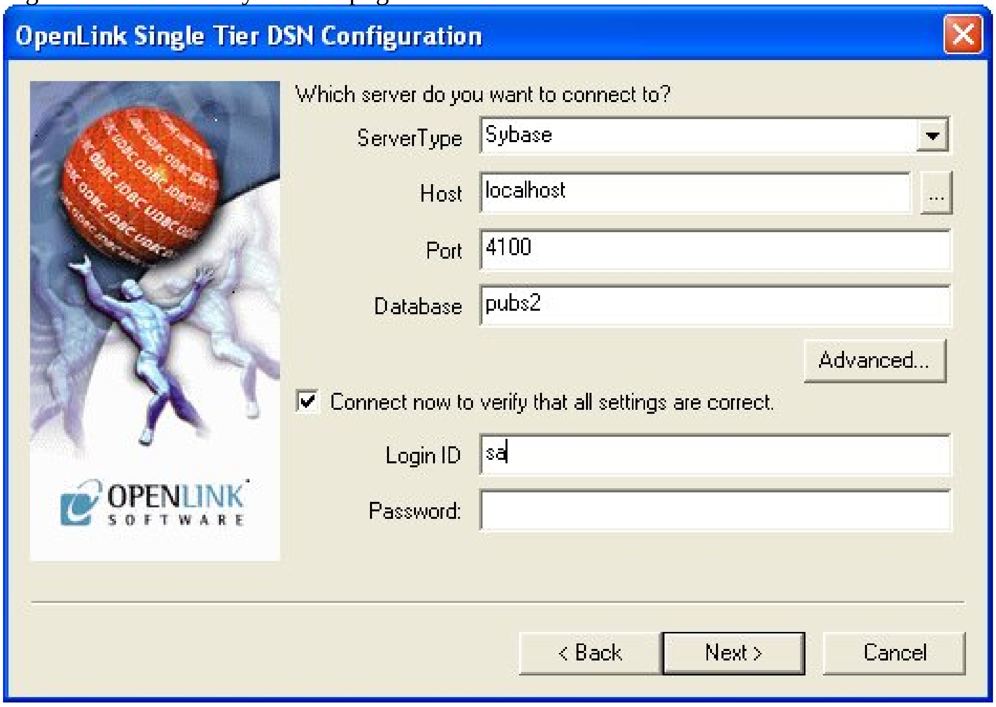
Name:

How do you want to describe the data source?

Description:

The Connection Tab request the minimum paramters required to make a connection to the target database:

Figure 11.41. EEWinsybconf05.png



OpenLink Single Tier DSN Configuration

Which server do you want to connect to?

ServerType: Sybase

Host: localhost

Port: 4100

Database: pubs2

☑ Connect now to verify that all settings are correct.

Login ID: sa

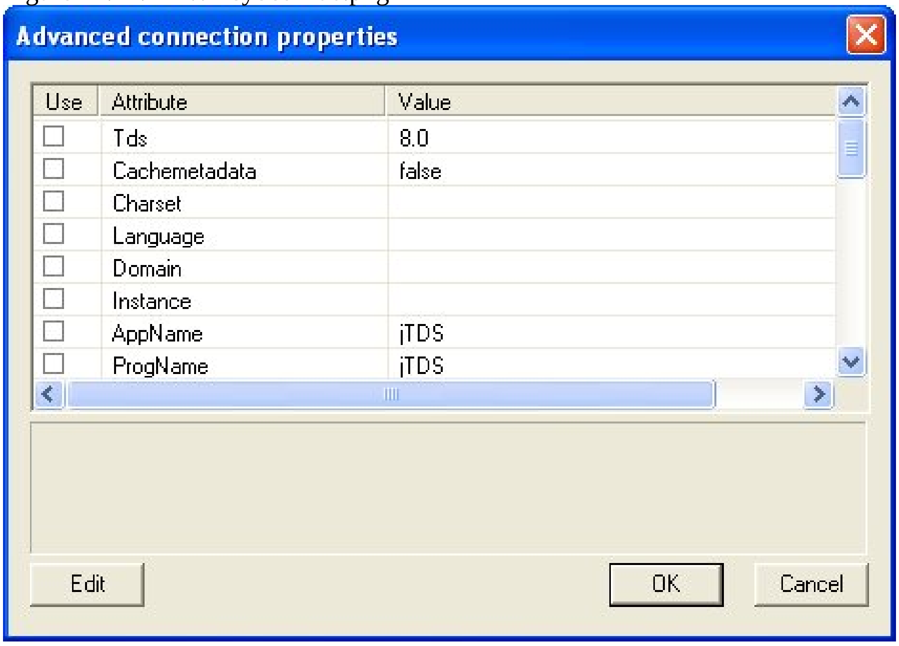
Password:

- *Server Type* : This paramter should be set to Sybase which can be selected from th drop down list box
- *Host* : This is the fully qualified hostname, or IP address, of the machine hosting the DBMS you wish to access, e.g., dbms-server.example.com, or 192.168.155.123. Any hostname which will be resolved by your local DNS is acceptable.
- *Port* : This is the port that SQL Server is listening on
- *Database* : This is the SQL Server database that you want to connect to

- *Login ID* : This is a valid user on for the SQL Server Database
- *Password* : Enter valid password and click next to verify that all settings are correct or uncheck check box to delay this to a later stage.

The advanced button displays additional optional parameters that can be configured:

Figure 11.42. EEWinsybconf06.png



Use	Attribute	Value
☐	Tds	8.0
☐	Cachemetadata	false
☐	Charset	
☐	Language	
☐	Domain	
☐	Instance	
☐	AppName	jTDS
☐	ProgName	jTDS

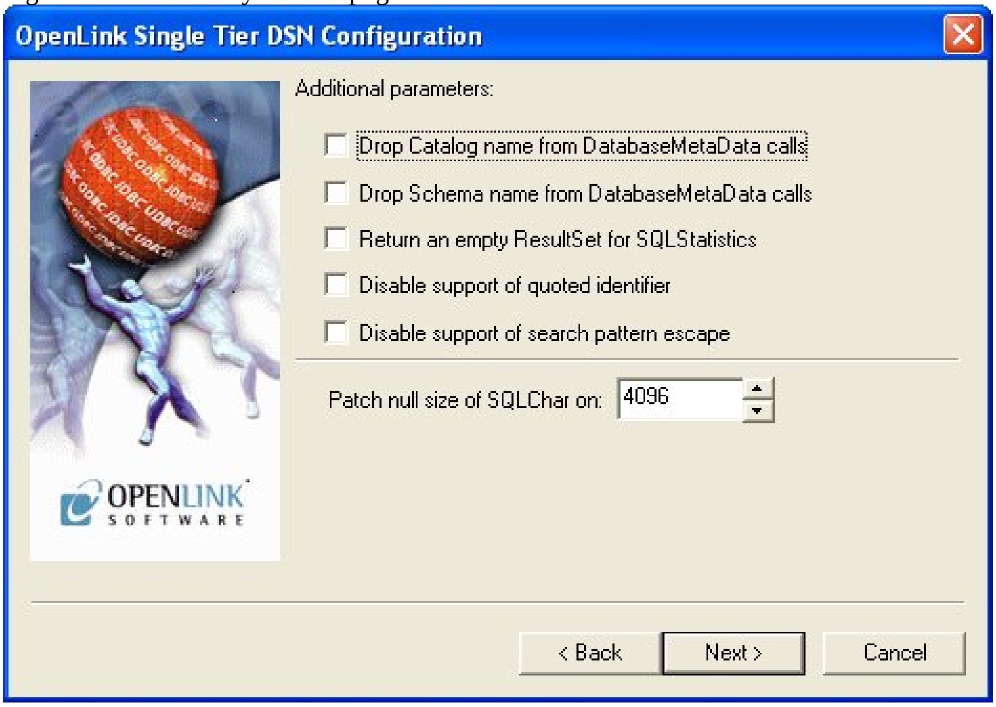
Table 11.2.

Tds	The version of TDS to be used.(default - '8.0')
Cachemetadata	When used with prepareSQL=3, setting this property to true will cause the driver to cache column meta data for SELECT statements. Use with care.(default - false)
Charset	Very important setting, determines the byte value to character mapping for CHAR/VARCHAR/TEXT values. Applies for characters from the extended set (codes 128-255). For NCHAR/NVARCHAR/NTEXT values doesn't have any effect since these are stored using Unicode.(default - the character set the server was installed with)
Language	Applies for characters from the extended set (codes 128-255). For NCHAR/NVARCHAR/NTEXT values doesn't have any effect since these are stored using Unicode.(default - the character set the server was installed with)
Domain	Specifies the Windows domain to authenticate in. If present and the user name and password are provided, it uses Windows (NTLM) authentication instead of the usual SQL Server authentication (i.e. the user and password provided are the domain user and password). This allows non-Windows clients to log in to servers which are only configured to accept Windoes authentication.
Instance	Named instance to connect to. SQL Server can run multiple so-called 'named instances' (i.e. different server instances, running on different TCP ports) on the same machine. When using Microsoft tools, selecting one of these instances is made by using '[host_name]\[instance_name]' instead of the usual '[host_name]'. You will have to split the two and use the instance name as a property.
AppName	Application name. No practical use, it's displayed by Enterprise Manager or Profiler associated with the connection.
ProgName	Client library name. No practical use, it's displayed by Enterprise Manager or Profiler associated with the connection.
Wsid	Workstation ID. No practical use, it's displayed by Enterprise Manager or Profiler associated with the connection.(default - the client host name)
MacAddress	Network interface card MAC address.(default - '000000000000')

SendStringParametersAsUnicode	Determines whether string parameters are sent to the SQL Server database in Unicode or in the default character encoding of the database.(default - true)
LastUpdateCount	If true only the last update count will be returned by executeUpdate(). This is useful in case you are updating or inserting into tables that have triggers (such as replicated tables); there's no way to make the difference between an update count returned by a trigger and the actual update count but the actual update count is always the last as the triggers execute first. If false all update counts are returned; use getMoreResults() to loop through them. (default - true)
PrepareSQL	This parameter specifies the mechanism used for Prepared Statements.(default - 3 for SQL Server)
PacketSize	The network packet size (a multiple of 512).(default - 4096 for TDS 7.0/8.0; 512 for TDS 4.2/5.0)
TcpNoDelay	true to enable TCP_NODELAY on the socket; false to disable it.(default - true)
LobBuffer	The amount of LOB data to buffer in memory before caching to disk. The value is in bytes for Blob data and chars for Clob data.(default - 32768)
MaxStatements	The number of statement prepares each connection should cache. A value of 0 will disable statement caching.(default - 500)
LoginTimeout	The amount of time to wait (in seconds) for a successful connection before timing out. If namedPipe is true and loginTimeout is non-zero, the value of loginTimeout is used for the retry timeout when 'All pipe instances are busy' error messages are received while attempting to connect to the server. If namedPipe is true and loginTimeout is zero (the default), a value of 20 seconds is used for the named pipe retry timeout. (default - 0)
SocketTimeout	The amount of time to wait (in seconds) for network activity before timing out.Use with care! If a non zero value is supplied this must be greater than the maximum time that the server will take to answer any query. Once the timeout value is exceeded the network connection will be closed. This parameter may be useful for detecting dead network connections in a pooled environment.(default - 0)
NamedPipe	When set to true, named pipe communication is used to connect to the database instead of TCP/IP sockets. When the os.name system property starts with 'windows' (case-insensitive), named pipes (both local and remote) are accessed through the Windows filesystem by opening a RandomAccessFile to the path. When the SQL Server and the client are on the same machine, a named pipe will usually have better performance than TCP/IP sockets since the network layer is eliminated.
Ssl	Specifies if and how to use SSL for secure communication.(default - off)
BatchSize	Controls how many statements are sent to the server in a batch. The actual batch is broken up into pieces this large that are sent separately.(default - 0[unlimited] for SQL Server)
UseCursors	Instructs the driver to use server side cursors instead of direct selects (AKA firehose cursors) for forward-only read-only result sets (with other types of result sets server- or client-side cursors are always used).(default - false)
BufferMaxMemory	Controls the global buffer memory limit for all connections (in kilobytes). When the amount of buffered server response packets reaches this limit additional packets are buffered to disk; there is however one exception: each Statement gets to buffer at least '[bufferMinPackets]' to memory before this limit is enforced. This means that this limit can and will usually be exceeded.(default - 1024)
BufferMinPackets	Controls the minimum number of packets per statement to buffer to memory. Each Statement will buffer at least this many packets before being forced to use a temporary file if the [bufferMaxMemory] is reached, to ensure good performance even when one Statement caches a very large amount of data.(default - 8)
UseLOBs	Controls whether large types (IMAGE and TEXT/NTEXT) should be mapped by default (when using getObject()) to LOBs . The default type constant returned is also controlled by this property: BLOB for IMAGE and CLOB for TEXT/NTEXT when true, LONGVARBINARY for IMAGE and LONGVARCHAR for TEXT/NTEXT when false.(default - true)

As indiacted above the paramters of the options and preferences tabs are not required for a basic connection.

Figure 11.43. EEWinsybconf07.png



OpenLink Single Tier DSN Configuration

Additional parameters:

□ Drop Catalog name from DatabaseMetaData calls

□ Drop Schema name from DatabaseMetaData calls

□ Return an empty ResultSet for SQLStatistics

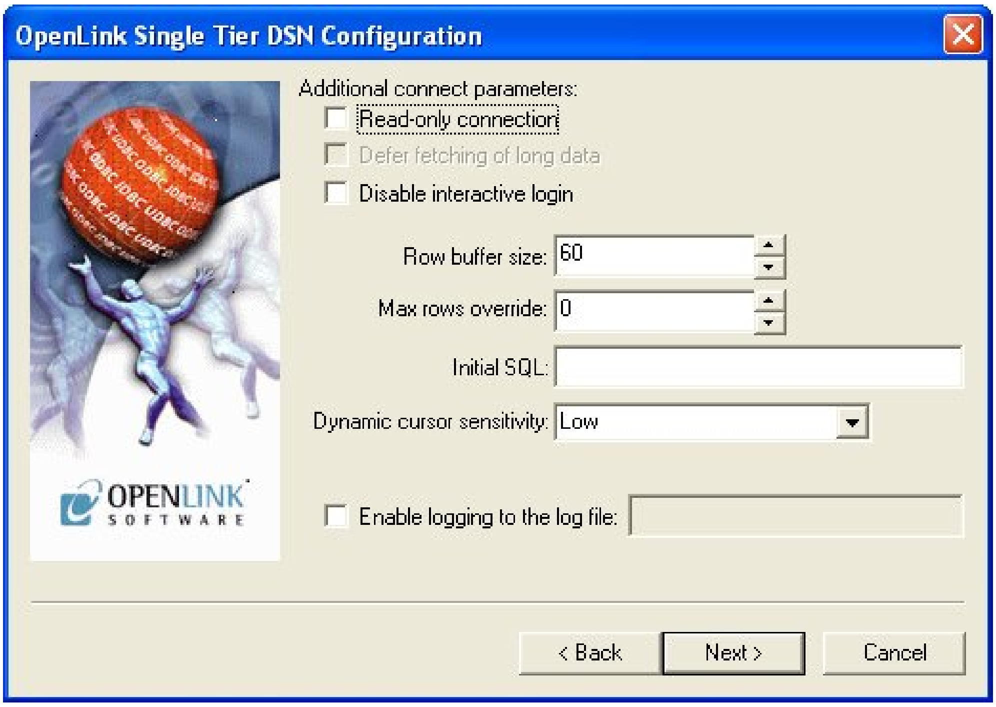
□ Disable support of quoted identifier

□ Disable support of search pattern escape

Patch null size of SQLChar on: 4096

- *Row Buffer Size* - This attribute specifies the number of records to be transported over the network in a single network hop. Values can range from 1 to 99.
- *Hide Login Dialog* - Suppress the ODBC "Username" and "Password" login dialog box when interacting with your ODBC DSN from within an ODBC compliant application.
- *Read Only connection* - Specify whether the connection is to be "Read-only". Make sure the checkbox is unchecked to request a "Read/Write" connection.
- *Drop Catalog from Meta calls* - Enable this option to have the catalog name not appear for tables, views and procedures when requesting database meta-data.
- *Drop Schema from Meta calls* - Enable this option to have the schema-name not appear for tables, views and procedures when requesting database meta-data.
- *SQLStatistics disabled* - Check this box to have SQLStatistics() return an empty resultset. Use this if the underlying database does not support retrieving statistics about a table (e.g. what indexes there are on it).
- *No support of quoted identifier* - If it is set, the call SQLGetInfo for 'SQL_IDENTIFIER_QUOTE_CHAR' will return the space (" "). It can be used if DBMS doesn't support quoted SQL like select * from "account"
- *No support of search string escape* - If it is set, the call SQLGetInfo for 'SQL_LIKE_ESCAPE_CLAUSE' will return the space (" "). It can be used if DBMS doesn't support SQL escape patterns
- *Patch of NULL size of SQL_CHAR* - If set this option overrides the size of SQL_CHAR column type returned by the database with the value set in the text box (in bytes). With the default value of 0 the driver uses the size returned by the database.
- *SQL_DBMS Name* - Manually override the SQLGetInfo(SQL_DBMS_NAME) response returned by the driver. This is know to be required for products like Microsoft InfoPath for which the return the value should be "SQL Server".

Figure 11.44. EEWinsybconf08.png



OpenLink Single Tier DSN Configuration

Additional connect parameters:

□ Read-only connection

□ Defer fetching of long data

□ Disable interactive login

Row buffer size: 60

Max rows override: 0

Initial SQL:

Dynamic cursor sensitivity: Low

□ Enable logging to the log file:

- *Initialization SQL* - Lets you specify a file containing SQL statements that will be run against the database upon connection, automatically.

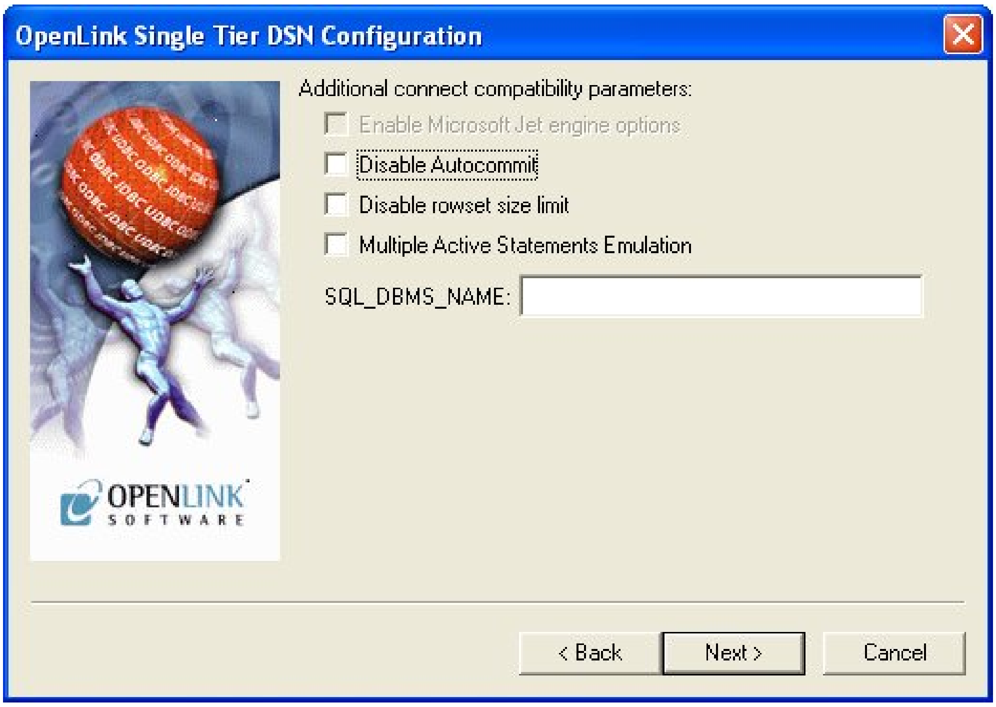
- *Cursor Sensitivity* - Enables or disables the row version cache used with dynamic cursors. When dynamic cursor sensitivity is set high, the Cursor Library calculates checksums for each row in the current rowset and compares these with the checksums (if any) already stored in the row version cache for the same rows when fetched previously. If the checksums differ for a row, the row has been updated since it was last fetched and the row status flag is set to SQL_ROW_UPDATED. The row version cache is then updated with the latest checksums for the rowset. From the user's point of view, the only visible difference between the two sensitivity settings is that a row status flag can never be set to SQL_ROW_UPDATED when the cursor sensitivity is low. (The row status is instead displayed as SQL_ROW_SUCCESS.) In all other respects, performance aside, the two settings are the same - deleted rows don't appear in the rowset, updates to the row since the row was last fetched are reflected in the row data, and inserted rows appear in the rowset if their keys fall within the span of the rowset. If your application does not need to detect the row status SQL_ROW_UPDATED, you should leave the 'High Cursor Sensitivity' checkbox unchecked, as performance is improved. The calculation and comparison of checksums for each row fetched carries an overhead. If this option is enabled, the table oplrvc must have been created beforehand using the appropriate script for the target database.

- *MaxRows Override* - Allows you to define a limit on the maximum number of rows to returned from a query. The default value of 0 means no limit.

- *Defer fetching of long data* - Defer fetching of LONG (BINARY, BLOB etc.) data unless explicitly requested in query. This provides significant performance increase when fields in query does not include LONG data fields.

- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Figure 11.45. EEWinsybconf09.png



OpenLink Single Tier DSN Configuration

Additional connect compatibility parameters:

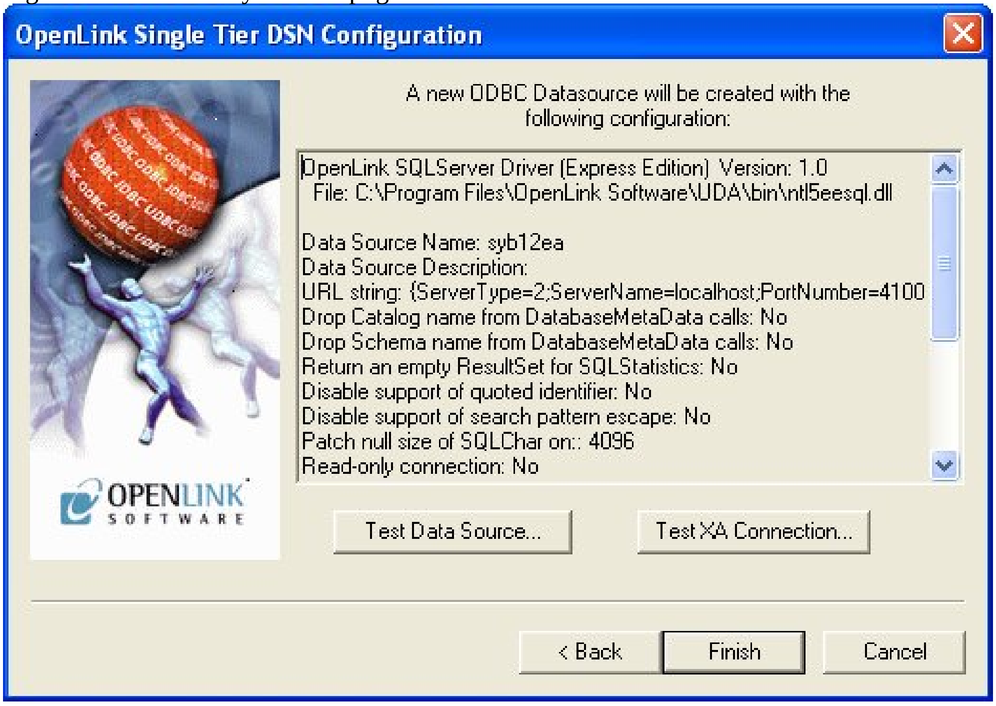
- □ Enable Microsoft Jet engine options
- □ Disable Autocommit
- □ Disable rowset size limit
- □ Multiple Active Statements Emulation

SQL_DBMS_NAME:

- *Disable AutoCommit* - Change the default commit behaviour of the OpenLink Lite Driver. The default mode is AutoCommit mode (box unchecked).
- *Disable Rowset Size Limit* - Disable the limitation enforced by the cursor library. The limitation is enforced by default to prevent the Driver claiming all available memory in the event that a resultset is generated from an erroneous query is very large. The limit is normally never reached.
- *Multiple Active Statements Emulation* - Enables use of Multiple Active statements in an ODBC application even if the underlying database does not allow this, as it is emulated in the driver.

Click on the *Test Data Source*button to verfiy successful connection can be made to the database.

Figure 11.46. EEWinsybconf10.png



OpenLink Single Tier DSN Configuration

A new ODBC Datasource will be created with the following configuration:

```
OpenLink SQLServer Driver (Express Edition)  Version: 1.0
  File: C:\Program Files\OpenLink Software\UDA\bin\ntl5eesql.dll

Data Source Name: syb12ea
Data Source Description:
URL string: {ServerType=2;ServerName=localhost;PortNumber=4100
Drop Catalog name from DatabaseMetaData calls: No
Drop Schema name from DatabaseMetaData calls: No
Return an empty ResultSet for SQLStatistics: No
Disable support of quoted identifier: No
Disable support of search pattern escape: No
Patch null size of SQLChar on:: 4096
Read-only connection: No
```