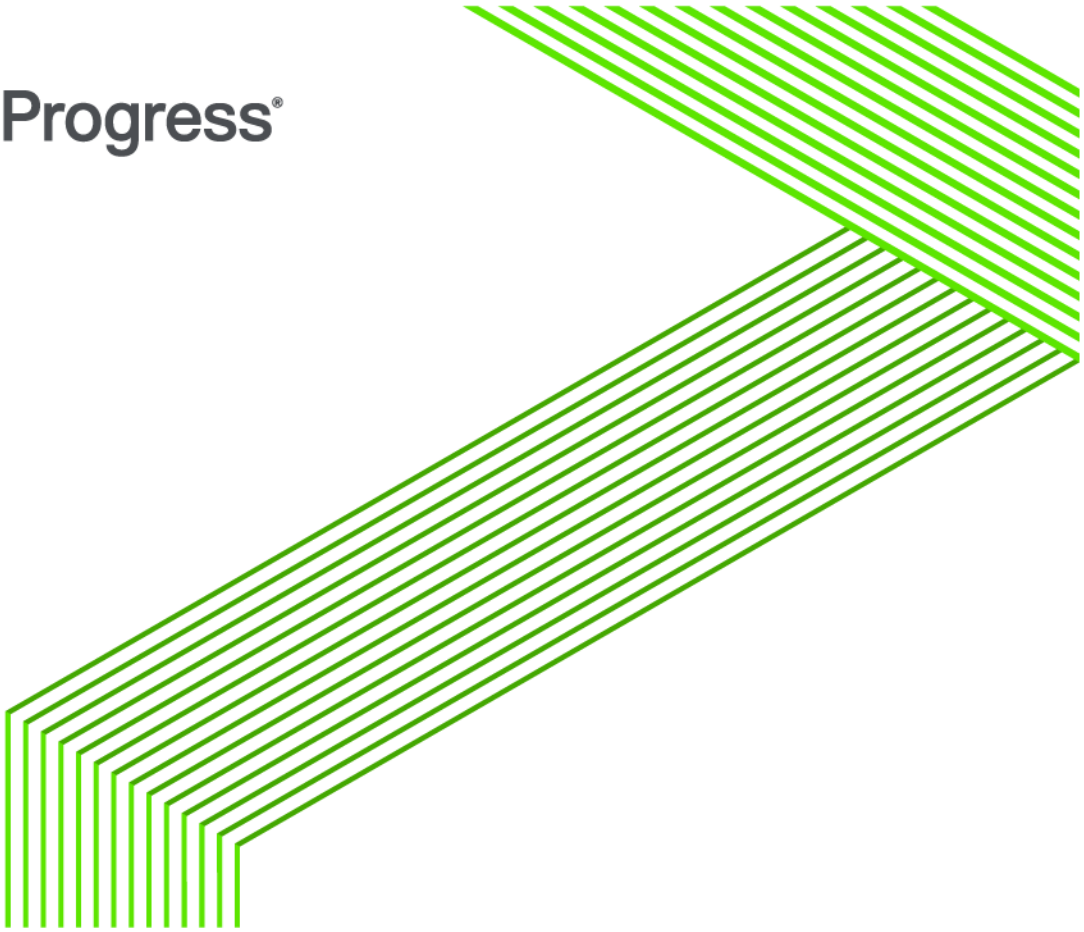

DataDirect Connect® Series

for ODBC

Installation Guide

Release 7.1.6

Progress® DataDirect®

Copyright

Table of Contents

Preface

For details, see the following topics:

About this Book

This book is your installation guide to Progress® DataDirect Connect® Series *for* ODBC, which includes the following products:

- DataDirect Connect *for* ODBC
- DataDirect Connect64 *for* ODBC
- DataDirect Connect XE (Extended Edition) *for* ODBC
- DataDirect Connect64 XE *for* ODBC

Some drivers are available in both 32- and 64-bit versions. See the Product Matrix on page 12 for details.

Note: 8.0 and higher versions of Connect Series *for* ODBC drivers and the 7.1 version of the Connect64 Text driver use standalone installers. For information on those installers, refer to the Progress DataDirect for ODBC Drivers Installation Guide.

About the Documentation Library

The product library consists of the following guides:

- *DataDirect Connect Series for ODBC Installation Guide* details requirements and procedures for installing the product.
- *DataDirect Connect Series for ODBC User's Guide* provides information about configuring and using the product.
- *DataDirect Connect Series for ODBC Reference* provides detailed reference information about the product.
- *DataDirect Connect Series for ODBC Troubleshooting Guide* provides information about error messages and troubleshooting procedures for the product.

This library, except for the installation guide, is placed on your system as HTML-based online help during a normal installation of the product. It is located in the help subdirectory of the product installation directory.

Using the HTML Help


On Windows, you can access the entire Help system by selecting the help icon that appears in the DataDirect program group.

On all platforms, you can access the entire Help system by opening the following file from within your browser:

install_dir`/help/index.html`

where:

install_dir

is the path to the product installation directory.

Or, from a command-line environment, at a command prompt, enter:

```
browser_exe install_dir/help/index.html
```

where *browser_exe* is the name of your browser executable and *install_dir* is the path to the product installation directory.

After the browser opens, the left pane displays the Table of Contents, Index, and Search tabs for the entire documentation library. When you have opened the main screen of the Help system in your browser, you can bookmark it in the browser for quick access later.

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

Help is also available from the setup dialog box for each driver. When you click **Help**, your browser opens to the correct topic without opening the help Table of Contents. A grey toolbar appears at the top of the browser window.

This tool bar contains previous and next navigation buttons. If, after viewing the help topic, you want to see the entire library, click:

on the left side of the toolbar, which opens the left pane and displays the Table of Contents, Index, and Search tabs.

PDF Format

The product documentation is also provided in PDF format. You can view or print the documentation, and perform text searches in the files. The PDF documentation is available on the Progress DataDirect Web site at:

https://docs.progress.com/bundle/datadirect-connectors/page/DataDirect-Connectors-by-data-source.html

You can download the entire library in a compressed file. When you uncompress the file, it appears in the correct directory structure.

Maintaining the correct directory structure allows cross-book text searches and cross-references. If you download or copy the books individually outside of their normal directory structure, their cross-book search indexes and hyperlinked cross-references to other volumes will not work. You can view a book individually, but it will not automatically open other books to which it has cross-references.

To help you navigate through the library, a file, called `books.pdf`, is provided. This file lists each online book provided for the product. We recommend that you open this file first and, from this file, open the book you want to view.

Note: To use the cross-book search feature, you must use Adobe Reader 8.0 or higher. If you are using a version of Adobe Reader that does not support the cross book search feature or are using a version of Adobe Reader earlier than 8.0, you can still view the books and use the Find feature within a single book.

Product Platforms

DataDirect Connect Series *for* ODBC drivers allow you to connect to a variety of databases from these platforms:

Windows (32-bit)

- Windows 10
- Windows 8.1
- Windows 7
- Windows Server 2012
- Windows Server 2008

Windows (64-bit)

- Windows 10
- Windows 8.1
- Windows 7
- Windows Server 2012
- Windows Server 2008

UNIX and Linux (32-bit)

- AIX
- HP-UX aCC Enabled
- Linux
- Oracle Solaris

UNIX and Linux (64-bit)

- AIX
- HP-UX aCC Enabled
- Linux
- Oracle Solaris

See Environment-Specific Information for detailed information regarding these platforms.

Product Matrix

The DataDirect Connect Series *for* ODBC products include 32- and 64-bit drivers. DataDirect Connect *for* ODBC (32-bit) and DataDirect Connect64 *for* ODBC (64-bit) are detailed in the following table.

Note: 8.0 and higher versions of Connect Series *for* ODBC drivers and the 7.1 version of the Connect64 Text driver use standalone installers. For information on those installers, refer to the Progress DataDirect for ODBC Drivers Installation Guide.

Driver	Connect *for* ODBC	Connect64 *for* ODBC
DB2 Wire Protocol	X	X
Informix Wire Protocol	X	X
MySQL Wire Protocol	X	X
Oracle Wire Protocol	X	X
PostgreSQL Wire Protocol	X	X
Progress OpenEdge® Wire Protocol	X	X

Driver	Connect *for* ODBC	Connect64 *for* ODBC
SQL Server Wire Protocol	X	X
Sybase Wire Protocol	X	X
Oracle (client)	X	X
SQL Server Legacy Wire Protocol	X	X
Text	X	X
Btrieve	X	
dBASE	X	
Informix (client)	X	
XML	X	

DataDirect Connect XE *for* ODBC (32-bit) and DataDirect Connect64 XE *for* ODBC (64-bit) products consists of the drivers detailed in the following table.

Driver	Connect XE *for* ODBC	Connect64 XE *for* ODBC
Greenplum Wire Protocol	X	X
Impala™ Wire Protocol	X	X
Salesforce	X	X
Sybase IQ	X	X
Driver for Apache Hive™	X	X
Driver for the Teradata Database	X	X

Using This Book

The content of this book assumes that you are familiar with your operating system and its commands. It contains the following information:

- Requirements and Support on page 17 lists driver requirements and supported databases.
- Installation on Windows on page 25 explains how to install the product on a local or network drive on Windows platforms.
- Installation on UNIX and Linux on page 43 explains how to install the product on UNIX and Linux platforms.

Database drivers are continually being added to each operating environment. For the latest information about the specific drivers available for your platform, refer to the Progress DataDirect Supported Configurations Web page at:

https://www.progress.com/matrices/supported-configurations

Note: This book refers the reader to Web pages using URLs for more information about specific topics, including Web URLs not maintained by Progress DataDirect. Because it is the nature of Web content to change frequently, Progress DataDirect can guarantee only that the URLs referenced in this book were correct at the time of publishing.

Conventions Used in This Guide

The following sections describe the conventions used to highlight information that applies to specific operating systems and typographical conventions.

Operating System Symbols

The drivers are supported in the Windows, UNIX, and Linux environments. When the information provided is not applicable to all supported environments, the following symbols are used to identify that information:

 The Windows symbol signifies text that is applicable only to Windows.

UNIX® The UNIX symbol signifies text that is applicable only to UNIX and Linux.

Typography

This guide uses the following typographical conventions:

Convention	Explanation
italics	Introduces new terms with which you may not be familiar, and is used occasionally for emphasis.
bold	Emphasizes important information. Also indicates button, menu, and icon names on which you can act. For example, click **Next**.
BOLD UPPERCASE	Indicates keys or key combinations that you can use. For example, press the **ENTER** key.
UPPERCASE	Indicates SQL reserved words.
`monospace`	Indicates syntax examples, values that you specify, or results that you receive.
`monospaced italics`	Indicates names that are placeholders for values that you specify. For example, *`filename`*.
>	Separates menus and their associated commands. For example, Select **File > Copy** means that you should select **Copy** from the **File** menu.
/	The slash also separates directory levels when specifying locations under UNIX.

Convention	Explanation
vertical rule |	Indicates an "OR" separator used to delineate items.
brackets [ ]	Indicates optional items. For example, in the following statement: `SELECT [DISTINCT]`, `DISTINCT` is an optional keyword. Also indicates sections of the Windows Registry.
braces { }	Indicates that you must select one item. For example, {`yes` | `no`} means that you must specify either `yes` or `no`.
ellipsis . . .	Indicates that the immediately preceding item can be repeated any number of times in succession. An ellipsis following a closing bracket indicates that all information in that unit can be repeated.

Contacting Technical Support

Progress DataDirect offers a variety of options to meet your support needs. Please visit our Web site for more details and for contact information:

https://www.progress.com/support

The Progress DataDirect Web site provides the latest support information through our global service network. The SupportLink program provides access to support contact details, tools, patches, and valuable information, including a list of FAQs for each product. In addition, you can search our Knowledgebase for technical bulletins and other information.

When you contact us for assistance, please provide the following information:

- Your number or the serial number that corresponds to the product for which you are seeking support, or a case number if you have been provided one for your issue. If you do not have a SupportLink contract, the SupportLink representative assisting you will connect you with our Sales team.
- Your name, phone number, email address, and organization. For a first-time call, you may be asked for full information, including location.
- The Progress DataDirect product and the version that you are using.
- The type and version of the operating system where you have installed your product.
- Any database, database version, third-party software, or other environment information required to understand the problem.
- A brief description of the problem, including, but not limited to, any error messages you have received, what steps you followed prior to the initial occurrence of the problem, any trace logs capturing the issue, and so on. Depending on the complexity of the problem, you may be asked to submit an example or reproducible application so that the issue can be re-created.
- A description of what you have attempted to resolve the issue. If you have researched your issue on Web search engines, our Knowledgebase, or have tested additional configurations, applications, or other vendor products, you will want to carefully note everything you have already attempted.
- A simple assessment of how the severity of the issue is impacting your organization.

July 2020, Release 7.1.6 Progress DataDirect Connect for ODBC, Version 0001

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Requirements and Support

Before you install the product, you need to verify that you have a supported version of the database, a supported version of the operating system, and, if necessary, the correct database client software on your system.

For details, see the following topics:

- Driver Requirements
- Supported Databases
- Supported Operating Systems

Driver Requirements

The following section describes requirements for DataDirect Connect Series *for* ODBC drivers.

The Driver for Apache Hive

The driver has no client requirements.

The Btrieve Driver

To access a Btrieve database, you must be using the appropriate client software for the version of the Btrieve database to which you are connecting:

Database Versions	Client Names
Pervasive.SQL 8.5	Pervasive.SQL 8.5 client software
Pervasive.SQL 2000	Pervasive.SQL 2000 client software
Pervasive.SQL 7.0	Pervasive.SQL 7.0 client software
Btrieve 6.15 for Windows 9*x*	Btrieve Developer's Kit or Btrieve WorkStation Client Engine
Btrieve 6.15 for Windows NT	Btrieve Developer's Kit, Btrieve WorkStation Client Engine, or Btrieve Client/Server Database Engine

Note: The Btrieve driver may experience problems if the Btrieve Microkernel Engine's communication buffer size is smaller than that of the Btrieve driver's Array Size option. You can increase the communication buffer size with the Pervasive Software Setup Utility, or you can decrease the value of Array Size option through the ODBC Btrieve Driver setup dialog box or through the ArraySize connection string attribute.

Before you attempt to access Btrieve files, you must incorporate existing Btrieve files into a Scalable SQL database. Refer to "The Btrieve (Pervasive.SQL) Driver" in the *DataDirect Connect Series for ODBC User's Guide* for information on defining table structure.

The DB2 Wire Protocol Driver

The driver has no client requirements.

The dBASE Driver

The driver has no client requirements.

The GreenPlum Wire Protocol Driver

The driver has no client requirements.

The Impala Wire Protocol Driver

The driver has no client requirements.

The Informix Wire Protocol Driver

The driver has no client requirements.

If you need to access an Informix database through client software, use the Informix driver. See Supported Databases on page 23 for details.

The Informix Driver

This section provides the system requirements for using the Informix client-based driver on all supported platforms. If you want to access an Informix database without having to use client software, use the Informix Wire Protocol driver. See Supported Databases on page 23 for details.

Windows

 To access supported remote Informix databases through the Informix driver, you need one of the following:

- Informix Connect for Windows platforms, version 2.x
- Informix Client Software Development Kit for Windows platforms, version 2.x

Use the Setnet32 utility to define servers and the location of the INFORMIX directory. Use Ilogin to test your connection to the Informix server. The path to the ISQLT09A.DLL must be in your PATH environment variable.

UNIX (AIX, HP-UX PA-RISC, and Solaris)

UNIX® The environment variable INFORMIXDIR must be set to the directory where you have installed the Informix client.

For example, the following syntax is valid for C-shell users:

```
setenv INFORMIXDIR /databases/informix
```

For Bourne- or Korn-shell users, the following syntax is valid:

```
INFORMIXDIR=/databases/informix;export INFORMIXDIR
```

In addition, the INFORMIXSERVER variable must be set to the name of the Informix server (as defined in your $INFORMIXDIR/etc/sqlhosts file). For further details, refer to the Informix documentation.

To access supported remote Informix databases through the Informix driver, you need one of the following:

- On AIX: Informix Client Software Development Kit version 2.2 or higher; or Informix Connect version 2.2 or higher
- On HP-UX and Solaris: Informix Connect version 2.*x*
- On HP-UX and Solaris: Informix Client Software Development Kit version 2.*x*

The MySQL Wire Protocol Driver

The driver has no client requirements.

Note: The DataDirect Connect Series *for* ODBC drivers for MySQL Enterprise were developed using the MySQL Protocol Documentation whose copyright is owned by, and licensed by DataDirect from, MySQL AB. If any of the DataDirect Connect Series *for* ODBC is licensed for the MySQL database the following shall apply: You must purchase commercially licensed MySQL database software or a MySQL Enterprise subscription in order to use the DataDirect Connect Series *for* ODBC drivers for MySQL Enterprise with MySQL software.

The Oracle Wire Protocol Driver

The driver has no client requirements.

If you need to access an Oracle database through client software, use the Oracle driver. See Supported Databases on page 23 for details.

The Oracle Driver

This section provides the system requirements for using the Oracle client-based driver on both Windows and UNIX/Linux. If you want to access an Oracle database without having to use client software, use the Oracle Wire Protocol driver. See The Oracle Wire Protocol Driver on page 19 for details.

Important: You must have *all* components of the Oracle client software installed; otherwise, the driver will not operate properly. You must have the appropriate DLLs or shared libraries and objects on your path.

Although an earlier version of a client can access a later version of a database, for example, client 9.2 to server 10.1, to ensure that you have access to all of the features of a particular database, you should use the use the latest version of the client that Oracle supports against your database server.

Windows

For 32-bit drivers, Oracle Net8 Client 9.2 or higher is required. For 64-bit drivers, Oracle client software 10.1 or higher is required on x64.

UNIX and Linux

UNIX®

For 32-bit drivers, Oracle Net8 Client 9.2 or higher is required.

For 64-bit drivers, Oracle client software 9*i* R2 or higher is required on Linux for Itanium II and UNIX. Oracle client software 10.1 or higher is required for Linux on x64.

Before you can use the Oracle driver, you must have a supported Oracle client installed on your workstation in the $ORACLE_HOME source tree. ORACLE_HOME is an environment variable created by the Oracle installation process that identifies the location of your Oracle client components.

Set the environment variable ORACLE_HOME to the directory where you installed the Oracle client. For example, for C-shell users, the following syntax is valid:

```
setenv ORACLE_HOME /databases/oracle
```

For Bourne- or Korn-shell users, the following syntax is valid:

```
ORACLE_HOME=/databases/oracle;export ORACLE_HOME
```

32-bit drivers—Building the Required Oracle Net8 Shared Library on HP-UX 11

You must build a replacement shared library for Oracle Net8 Client 9.2 on HP-UX 11. This shared library, `libclntsh.sl`, contains your unique Oracle Net8 configuration, which is used by the Oracle driver to access local and remote Oracle databases.

The shared library `libclntsh.sl` is built by the Oracle script `genclntsh`. The `genclntsh` script provided by Oracle causes errors resulting from undefined symbols. Run the genclntsh92 script provided by Progress DataDirect to build a replacement `libclntsh.sl`. This script, in the `src/oracle` directory, places the new `libclntsh.sl` in `../../lib`, which is your `$ODBC_HOME/lib` directory; it does not overwrite the original `libclntsh.sl` in the `$ORACLE_HOME/lib` directory.

Before you build the Oracle Net8 shared library, install Oracle and set the environment variable ORACLE_HOME to the directory where you installed Oracle.

For Oracle Net8 Client 9.2 on HP-UX 11, the following commands build the Oracle Net8 shared library:

```
cd ${ODBC_HOME}/src/oracle
genclntsh92
```

Warning: The `$ODBC_HOME/lib directory`, containing the correct `libclntsh` library, *must* be on the SHLIB_PATH *before* `$ORACLE_HOME/lib`. Otherwise, the original Oracle library will be loaded, resulting in the unresolved symbol error.

Connecting to Oracle 9.2 from HP-UX

To connect to Oracle 9.2 from HP-UX, you must have the HP patch PHSS_22514 installed on the operating system, and you must set the `LD_PRELOAD` system variable to the absolute path of the `libjava.sl` library.

The PostgreSQL Wire Protocol Driver

The driver has no client requirements.

The Progress OpenEdge Wire Protocol Driver

The driver has no client requirements.

The Salesforce Driver

The driver requires a Java Virtual Machine (JVM): Java SE 7 or higher, including Oracle JDK 7, OpenJDK 8, IBM SDK (Java) 7, or higher LTS versions.

The SQL Server Wire Protocol Driver

The driver has no client requirements.

The SQL Server Wire Protocol driver connects via TCP/IP. TCP/IP connections must be configured on the Windows server on which the Microsoft SQL Server database resides.

The SQL Server Legacy Wire Protocol Driver

The driver has no client requirements.

Windows

 For support of Microsoft SQL Server 7.0, 2000, and 2005, the driver requires the SQL Server 7.0 versions of Net-Library DLL files, which are installed when you install the SQL Server Legacy Wire Protocol driver. The driver communicates with network software through the SQL Server Net-Library interface.

UNIX and Linux

UNIX® To use the SQL Server Legacy Wire Protocol driver on UNIX and Linux, you must have TCP/IP configured on both the UNIX and Linux clients and the Windows server on which the Microsoft SQL Server database resides. The UNIX and Linux SQL Server TCP/IP network client library is built into the SQL Server Legacy Wire Protocol driver on UNIX and Linux.

The Microsoft SQL Server Client configuration has been merged with the ODBC driver configuration and is set in the system information file.

The Sybase Wire Protocol Driver

The driver has no client requirements.

The Sybase IQ Wire Protocol Driver

The driver has no client requirements.

The Driver for the Teradata Database

The driver for the Teradata database is part of DataDirect Connect XE and Connect64 XE *for* ODBC.

The driver requires Teradata Tools and Utilities (TTU) 8.2 or higher, which includes CLIv2, TGSS, and ICU client software, on all platforms. It requires TTU 12.0 to support 12.0 functionality.

Note: TTU 12.0 is not available for the Itanium II platform. You can use TTU 8.2 on an Itanium II client to connect to a Teradata 12.0 database, but functionality is limited to that of TTU 8.2.

The Text Driver

The driver has no client requirements.

The XML Driver

You must have Internet Explorer 5 or higher installed. You must also have the Microsoft XML parser, msxml4.dll, not a higher version, installed. If you need to download the file, go to the site:

http://www.microsoft.com

On the Microsoft site, search on "msxml4.dll". Select the link for downloading the parser.

Supported Databases

Database drivers are continually being added to each operating environment. For the latest information about the specific drivers available for your platform, refer to the Progress DataDirect supported configurations Web page at:

https://www.progress.com/matrices/supported-configurations

Supported Operating Systems

For supported operating systems and other requirements, see Before You Install on page 26 for Windows and Before You Install on page 44 for UNIX and Linux.

2

Installation on Windows

The product includes a Setup program that enables you to install from downloaded files or a network directory. If you purchased a license for redistributing the product, the installation provides a way to do that.

For details, see the following topics:

Before You Install

Before you begin the installation:

- Exit or close all applications to prevent file-locking conflicts.
- Verify that your system meets the driver's requirements for a database before you install the driver. The driver will not work if these requirements are not met. See Requirements and Support on page 17 for a list of driver requirements.
- You must be a system administrator or have update privileges for the Registry key `[HKEY_LOCAL_MACHINE]`. These privileges are required to update the Registry with the new drivers being installed. See your system administrator if you are unsure.
- If the files are on a network, verify that you have write privileges. See your network administrator if you are unsure.

Important: You must have Microsoft Data Access Components (MDAC) installed. For 32-bit drivers, you must have version 2.6 or higher. For 64-bit drivers, you must have version 2.8 (64-bit) or higher. Depending on the version of your Windows operating system, these components may already be installed. You can download a utility that determines whether MDAC is installed and its version from the following Microsoft site: https://msdn.microsoft.com/en-us/data/aa937730.aspx

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You can also download MDAC from the same site.

System Requirements

The following are requirements for the 32- and 64-bit drivers on Windows operating systems.

32-Bit Drivers

- All required network software that is supplied by your database system vendors must be 32-bit compliant.
- If your application was built with 32-bit system libraries, you must use 32-bit drivers. If your application was built with 64-bit system libraries, you must use 64-bit drivers (see 64-Bit Drivers on page 27). The database to which you are connecting can be either 32-bit or 64-bit enabled.
- The following processors are supported:
  - x86: Intel
  - x64: Intel and AMD
- The following operating systems are supported for DataDirect Connect *for* ODBC. All editions are supported unless otherwise noted.
  - Windows 10
  - Windows 8.1
  - Windows Server 2012
  - Windows 7
  - Windows Server 2008

- The following operating systems are supported for DataDirect Connect XE *for* ODBC. All editions are supported unless otherwise noted.
  - Windows 10
  - Windows 8.1
  - Windows Server 2012
  - Windows 7
  - Windows Server 2008 Enterprise, Datacenter, Web and Small Business Editions
- For the Salesforce driver: A 32-bit Java Virtual Machine (JVM), Java SE 7 or higher, is required. See The Salesforce Driver on page 21 for details. Also, you must set the PATH environment variable to the directory containing your 32-bit JVM's jvm.dll file, and that directory's parent directory.
- An application that is compatible with components that were built using Microsoft Visual Studio 2010 compiler and the standard Win32 threading model.
- You must have ODBC header files to compile your application. For example, Microsoft Visual Studio includes these files.

64-Bit Drivers

- All required network software that is supplied by your database system vendors must be 64-bit compliant.
- The following processors are supported:
  - Intel
  - AMD
- The following operating systems are supported for DataDirect Connect64 *for* ODBC. All editions are supported unless otherwise noted.
  - Windows 10
  - Windows 8.1
  - Windows Server 2012
  - Windows 7
  - Windows Server 2008
- The following operating systems are supported for DataDirect Connect64 XE *for* ODBC. All editions are supported unless otherwise noted.
  - Windows 10
  - Windows 8.1
  - Windows Server 2012
  - Windows 7
  - Windows Server 2008 Enterprise, Standard, or Datacenter Editions
- An application that is compatible with components that were built using Microsoft C/C++ Optimizing Compiler Version 14.00.40310.41 and the standard Windows 64 threading model.
- For the Salesforce driver: A 64-bit JVM, Java SE 7 or higher, is required. See The Salesforce Driver on page 21 for details. Also, you must set the PATH environment variable to the directory containing your 32-bit JVM's jvm.dll file, and that directory's parent directory.

- You must have ODBC header files to compile your application. For example, Microsoft Visual Studio includes these files.

Default Installation Directory

The Setup program lets you specify the directory into which the drivers will be installed. By default, the Setup program installs the drivers in:

`C:\Program Files\Progress\DataDirect\Connect_for_ODBC_71` (32-bit)

or

`C:\Program Files\Progress\DataDirect\Connect64_for_ODBC_71` (64-bit)

Installing from Downloaded Files

Note: OEM CUSTOMERS: Refer to the *DataDirect Connect Series for ODBC Distribution Guide* for information on installing, branding, unlocking, and distributing your branded drivers.

This section provides instructions for installing your downloaded files.

To install the drivers from downloaded files:

1. Download the product zip file.
2. Unzip the files, maintaining the directory structure in the zip file, to a temporary directory, for example:

   `C:\TEMP`

3. From Windows Explorer, navigate to this directory; then, double-click the Setup program.
4. The Introduction window for the product installation appears. Click **Next** to continue.
5. The License Agreement window appears. Make sure that you read and understand the license agreement. To continue with the installation, select the **I accept the terms in the License Agreement** option; then, click **Next**.

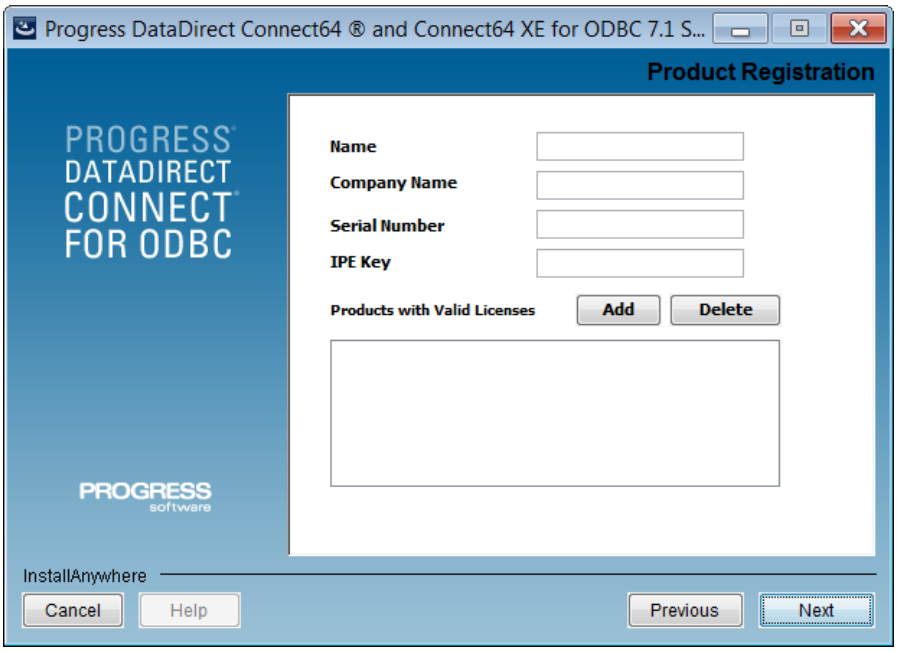
   Note: You can exit the Setup program at any time by clicking **Cancel** or return to the previous window by clicking **Previous**.

6. Choose the type of installation to perform. Select one of the following options:

   - **Evaluation Installation (will expire in 15 days)**. Select this option to install an evaluation version of the driver. Click **Next** to continue with the installation. Skip to 8 on page 29.
   - **OEM or Licensed Installation**. Select this option if you have purchased a licensed version of one or multiple drivers. Click **Next** and continue with the next step to enter your product licensing information.

   Note: OEM CUSTOMERS: Refer to the *DataDirect Connect Series for ODBC Distribution Guide* for information on installing, branding, unlocking, and distributing your branded drivers.

7. The Product Registration window appears.



Provide the following information:

a) Type your name and company name in the corresponding fields.

b) Type the serial number that was provided by Progress DataDirect.

c) Type the IPE key (control number) for branding that was provided by Progress DataDirect in the IPE Key field, and click the **Add** button. A description of the driver package appears in the Products with Valid Licenses list box. You can add one or multiple keys, one at a time.

Click **Next** to continue with the installation. Skip to 9 on page 30.

To delete a driver from the Products with Valid Licenses list box, select the driver and click the **Delete** button. The driver is removed from the list box. Click **Cancel** to end the installation.

8. For an evaluation installation, the Choose Install Set window allows you to choose the drivers that you want to install. The following product groups are available:

- **Connect for ODBC drivers**: This group includes one driver for each supported database (see Product Matrix on page 12).
  - In the case of Oracle and Informix, we highly recommend the use of the wire protocol drivers installed in this group, unless your application has a requirement for using the client-based drivers.
  - In the case of Microsoft SQL Server, the SQL Server Wire Protocol driver. We highly recommend the use of the SQL Server Wire Protocol driver unless your application has a requirement for using the Legacy driver.
- **Connect XE for ODBC drivers**: This group of premium drivers includes the Greenplum Wire Protocol Driver, Salesforce driver, Sybase IQ driver, the driver for Apache Hive, and the driver for the Teradata database. See Product Matrix on page 12 for more information. This group is selected by default.
- **Legacy and Client based Connect for ODBC drivers**: This group contains the client-based Informix and Oracle drivers, as well as the SQL Server Legacy Wire Protocol driver. This group is not selected by default.
- **Help**: Click **Help** to display information about determining the install state of a feature.

After selecting the drivers you want to install, click **Next**.

9. The Install Options window appears. You can select either or both of the following check boxes, or skip to the next step.

   - **Replace Existing Drivers**: Removes current and previous default DataDirect ODBC driver definitions from `HKEY_LOCAL_MACHINE\SOFTWARE\ODBC\ODBCINST.INI`. If you have other system Data Source Names (DSNs) or user DSNs that refer to these old definitions, those DSNs will no longer work.
   - **Create Default Data Sources**: Defines a user data source in `HKEY_CURRENT_USER\SOFTWARE\ODBC\ODBC.INI` for each DataDirect driver that you install.

   Warning: If you select Create Default Data Sources, data sources currently in your registry with the same DataDirect default name will be overwritten. To maintain your current DataDirect default data sources, rename them before you continue.

   Then, click **Next**. The Choose Install Folder window appears.

10. In the **Where Would You Like to Install?** field, type the path, including the drive letter, of the product installation directory or click the **Choose...** button to browse to and select an installation directory.

    - If you are running the 64-bit installer on 64-bit Windows, the default value for the installation directory for a is `C:\Program Files\Progress\DataDirect\Connect64_for_ODBC_71`
    - If you are running the 32-bit installer on 32-bit Windows, the default value for the installation directory for a is `C:\Program Files\Progress\DataDirect\Connect_for_ODBC_71`.
    - If you are running the 32-bit installer on 64-bit Windows, the default value for the installation directory is `C:\Program Files (x86)\Progress\DataDirect\Connect_for_ODBC_71`.

    Verify that you have entered (or selected) the correct installation directory. Then, click **Next** to continue.

    Note: If you specify a directory that contains a previous installation of the driver, a warning message appears allowing you to correct your directory choice. To prevent the previous installation from being overwritten, you must specify a different installation directory.

    To restore the installation directory to its default setting, click **Restore Default Folder**.

    Click **Next**. The Pre-Installation Summary window appears.

11. The Pre-Installation Summary window provides the opportunity for you to click back through the Setup windows and make any changes or corrections. When you are satisfied with your installation or branding option selections, click **Install** to begin the installation.
12. When the installation finishes, the Setup Completed window appears. If you installed a driver that can be optimized with the Performance Wizard, you have the option to run the Wizard at this time. Select the check box to run the Wizard automatically. See Using the Performance Wizard on page 37 for a description of the Wizard.

    If you installed a 32-bit driver that can be affected by the Data Source Converter, you have the option to run the Converter at this time. Select the check box to run the Converter automatically. See Using the Data Source Converter on page 39 for a description of the Converter.

    Click **Done** to exit Setup.

This completes the installation. If you chose to launch the Performance Wizard or the DSN Converter, it appears in a new browser window.

A DataDirect program group is created as part of the installation. This program group provides the following shortcuts:

- ODBC Administrator

- ODBC Data Source Converter [32-bit only]
- ODBC Driver Help
- ODBC Performance Tuning Wizard
- ODBC Readme
- Processor Information Utility
- Uninstall Progress DataDirect Connect and Connect XE *for* ODBC 7.1
- XML Persistence Demo [32-bit only]

After installation, you must configure drivers and data sources; see Configuring Drivers and Data Sources on page 36 for details.

Log Files Created During Installation

Installation Log Files

If the installer successfully creates the product installation directory, the installer writes a log file in the product installation directory. Examine the log file for a record of any problems that may have occurred during the installation. The installation log file name is one of the following:

`Progress_DataDirect_Connect_®_and_Connect_XE_for_ODBC_7.1_Install_`*`timestamp`*.log

`Progress_DataDirect_Connect64_®_and_Connect64_XE_for_ODBC_7.1_Install_`*`timestamp`*.log

where *`timestamp`* is the date and time the product was installed.

If the installation fails completely, the installer does not create the installation directory and writes file named Progress_DataDirect_Connect_®_and_Connect_XE_for_ODBC_7.1_InstallFailed.txt in the machine's default temporary directory (%TEMP%).

If you need help interpreting the contents of these files, contact Progress DataDirect customer support.

Installer Console Log

The installer records standard errors and standard output generated during installation to `CfODBC7.1_install_console.log`, which is created in the user profile directory. Progress DataDirect customer support might ask for this log file to troubleshoot some installer problems.

Unlocking and Distributing Branded ODBC Drivers

Refer to the *DataDirect Connect Series for ODBC Distribution Guide* for information on unlocking the branded drivers from the applications you develop, and for the files that you that you must distribute with your Windows application.

Installing from a Network Directory

The Setup program for the drivers can be copied to a network directory from the DVD or from the directory containing downloaded files. You can then install the drivers from this directory.

Copy all of the downloaded files from their temporary directory to a network directory. Navigate to the network directory and double-click the Setup program. The Introduction window for the product installer appears. To

complete the installation, follow 4 on page 28 through 12 on page 30 in Installing from Downloaded Files on page 28.

After installation, you must configure drivers and data sources; see Configuring Drivers and Data Sources on page 36 for details.

Silent Installations of Licensed Drivers

The Setup program provides a command-line option for silent installations of licensed drivers. The silent installation is useful for system administrators who want to create a batch file to execute multiple identical installations of the drivers.

Note: NOTE TO OEM CUSTOMERS: Refer to the *DataDirect Connect Series for ODBC Distribution Guide* for information on branding, unlocking, and distributing your branded drivers.

A silent installation requires performing the following steps:

- Creating the response file. See Creating a Response File on page 32 for more information.
- Performing the silent installation. See Performing the Silent Installation on page 35 for instructions.

Important: Your product license may limit the number of CPUs that can exist on the machine on which the product is installed. This limit also is imposed on any machine on which the silent installation is performed. If you need to upgrade your product license, contact your Progress DataDirect sales representative.

Creating a Response File

You can create the response file in either of the following ways:

- Using the installer. See Creating the Response File Using the Installer on page 32 for instructions.
- Using a text editor. See Creating a Response File Using a Text Editor on page 34 for instructions.

Creating the Response File Using the Installer

To create the response file:

1. At a command prompt, type the command:

   `setup.exe -r` *`response_file`*

   where *`response_file`* is the path and file name of the response file you want to create. You must specify an absolute path, with the path and file name enclosed in double quotation marks.

   This example creates a response file named `installer.properties` in the `C:\temp` directory.

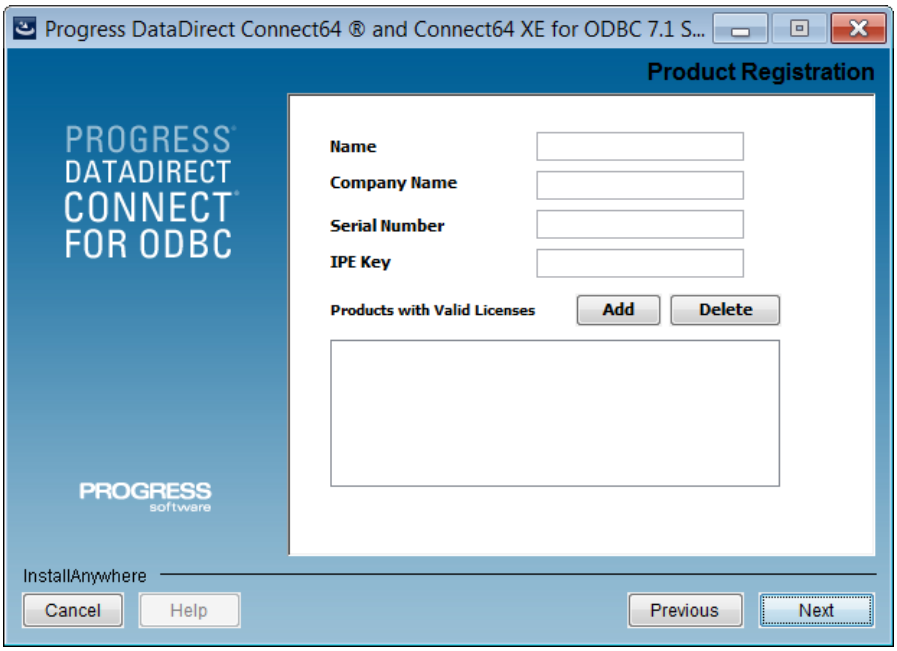
   setup.exe -r "C:\temp\installer.properties"

2. The Introduction window for the product installation appears window appears. Click **Next**.
3. The License Agreement window appears. Make sure that you read and understand the license agreement. To continue with the installation, select the **I accept the terms in the License Agreement** option; then, click **Next**.

4. Choose the type of installation to perform. Select one of the following options:

   - **Evaluation installation (will expire in 15 days)**. Select this option to install an evaluation version of the driver. Click **Next** to continue with the installation. Skip to 8 on page 34.
   - **OEM or Licensed installation**. Select this option if you have purchased a licensed version of one or multiple drivers. Click **Next** and continue with the next step to enter your product licensing information.

   The Product Registration window appears.



5. Provide the following information:

   a) Type the user name and company name that you want to use for the installation in the corresponding fields. For example, type *Sales* and *MyCompany*.

   b) Type the serial number that was provided by Progress DataDirect in the Serial Number field.

   c) Type the IPE key (control number) for branding that was provided by Progress DataDirect in the IPE Key field, and then click **Add**. A description of the driver package appears in the Products with Valid Licenses list box. You can add one or multiple keys, one at a time.

      To delete the driver from the Products with Valid Licenses list box, select the driver and click **Delete**. The driver is removed from the list box. Click **Cancel** to end the installation.

      Click **Next** to continue with the installation.

6. In the **Where Would You Like to Install?** field, type the path, including the drive letter on Windows machines, of the product installation directory or click the **Choose** (**...**) button to browse to and select an installation directory.

   The default value for the installation directory on a 32-bit machine is `C:\Program Files\Progress\DataDirect\Connect_for_ODBC_71`. Verify that you have entered (or selected) the correct installation directory.

   Click **Next** to continue.

Note: If you specify a directory that contains a previous installation of the driver, a warning message appears. You must install in the same installation directory. Click **Yes** to continue.

7. A window appears allowing you to confirm your installation options. Click **Previous** to revise your choices, or click **Install** to continue with the installation. When you click **Install**, the drivers you selected are installed.
8. A window appears asking you if you want to run the Performance Wizard. Select the **No** option to bypass the Wizard.

Important: Failing to bypass the Wizard when creating the response file causes the Wizard to appear when the silent installation is performed.

9. Click **Done** to exit the installer. The response file is created in the directory you specified in 1 on page 32.

See Performing the Silent Installation on page 35 for instructions on running the response file.

Creating a Response File Using a Text Editor

Use a text editor to create a response file with the following contents:

```
## Use the hash mark for comments in the file

EVAL=(0 | 1)
LICENSED=(0 | 1)
KEYLIST=yyyyyyyyyy
REPLACE_EXISTING=(0 | 1)
CREATEDEF_DS=(0 | 1)
USER_INSTALL_DIR=install_dir
ACCEPT_LICENSE_AGREEMENT=true
USERNAME=user_name
COMPANYNAME=company_name
SERIALNUMBER=xxxxxxxx
## Optionally, overwrite a specific file
-fileOverwrite_filename=(Yes | No)
```

where:

EVAL

specifies whether this is an evaluation install. Type *0* if this is a licensed installation or *1* to specify an evaluation installation.

LICENSED

specifies whether this is a licensed install. Type *1* if this is a licensed installation or *0* to specify an evaluation installation.

KEYLIST

is your product license key (control number). If specifying multiple keys, separate them using a space, for example, 1234567890 2345678901 3456789012.

REPLACE_EXISTING

specifies whether to replace current and previous default DataDirect ODBC driver definitions defined in HKEY_LOCAL_MACHINE\SOFTWARE\ODBC\ODBCINST.INI. If you have other system Data

Source Names (DSNs) or user DSNs that refer to these old definitions, those DSNs will no longer work.

`CREATEDEF_DS`

specifies whether to create default data sources. Type `1` if you want to create default data sources or `0` if you do not want to create default data sources.

`USER_INSTALL_DIR`

specifies the product installation directory. Notice that the colon (:) and backslash (\) special characters must be delimited with a backslash. If the path to the file contains a space, the space character must also be delimited.

`ACCEPT_LICENSE_AGREEMENT`

specifies whether to accept the license agreement; `true` is the only valid value.

`USERNAME`

specifies the user name that will be written to the license file. For example, type Sales Team as the user name.

`COMPANYNAME`

specifies the company name that will be written to the license file. For example, type MyCompany.

`SERIALNUMBER`

specifies the product serial number that will be written to the license file.

`-fileOverwrite_`*`filename`*`=(Yes | No)`

indicates whether the silent installer should overwite a specific file (optional). For example, if you are overwriting an existing ODBC installation and do not want to update the Progress DataDirect ODBC tracing library (`C:\Windows\system32\ivtrc27.dll`), then include the following line in the response file:

```
-fileOverwrite_C\:\\Windows\\system32\\ivtrc27.dll=No
```

Notice that the colon (:) and backslash (\) special characters must be delimited with a backslash. If the path to the file contains a space, the space character must also be delimited.

See Performing the Silent Installation on page 35 for instructions on running the response file.

Performing the Silent Installation

To perform a silent installation:

1. Download the product zip file from the location provided by Progress DataDirect when you purchased the software.
2. Unzip the file to a temporary directory, for example:

   `C:\TEMP`

3. At a command prompt, change to the directory containing the product Setup.exe file.
4. Type the command:

   `Setup.exe –i silent –f "response_file"`

   where *response_file* is the path and file name of the response file created in Creating a Response File on page 32. You must specify an absolute path, with the path and file name enclosed in double quotation marks.

   The following example performs a silent installation by running a response file named `installer.properties`, which is located in the `C:\temp` directory.

   ```
   Setup.exe –i silent –f "C:\temp\installer.properties"
   ```

   The installation proceeds without any further user intervention or notification.

   Refer to the installation log file for a record of any problems that may have occurred during the installation. See The Silent Installation Log File on page 36 for details.

The Silent Installation Log File

If the installer successfully creates the product installation directory, the installer writes a log file named `Progress_DataDirect_Connect_®_and_Connect_XE_for_ODBC_7.1_InstallLog.log` in the product installation directory. Examine the log file for a record of any problems that may have occurred during the installation.

If the installation fails completely, the installer does not create the installation directory and writes file named

`Progress DataDirect Connect ® and Connect XE for ODBC 7.1_SilentInstallFailed.txt` in the machine's default temporary directory (%TEMP%).

If you need help interpreting the contents of these files, contact Progress DataDirect Customer Support.

Testing Your Driver Installation

For basic information about connecting and testing your drivers immediately after installation, refer to "Quick Start Connect" in the *DataDirect Connect Series for ODBC User's Guide*.

Configuring Drivers and Data Sources

Before you can use a driver, you must configure a data source for it. A data source consists of a data source name, driver location, and optional driver information in the Registry. Use the ODBC Administrator to select an installed driver and then configure a data source for it. Configuration instructions are provided in the online Help for each driver's configuration window and in the appropriate chapter in the *DataDirect Connect Series for ODBC User's Guide*.

You can also use the Performance Wizard to provide information on optimizing driver performance.

Processor Information Utility

Progress DataDirect Customer Support may, on occasion, ask that you use the Processor Information Utility to identify the type of license you need.

From the DataDirect program group, select **Processor Information Utility**. The utility automatically determines the number and type of processors in your machine and displays a hexadecimal number that identifies your Progress DataDirect product installation. Provide this number to your Progress DataDirect sales representative or to Technical Support when requested.

Using the Performance Wizard

The Performance Wizard leads you step-by-step through a series of questions about your application. Based on your answers, the Wizard provides the optimal settings for performance-related connection string options. The Wizard applies to the following drivers:

- DB2 Wire Protocol
- Informix Wire Protocol
- MySQL Wire Protocol
- Oracle Wire Protocol
- SQL Server Wire Protocol
- Sybase Wire Protocol
- Oracle

The Wizard runs as an applet within a browser window. The browser must be configured to run applets. Refer to your browser's documentation for instructions on configuring your browser.

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

Starting the Wizard

You can start the Wizard in the following ways:

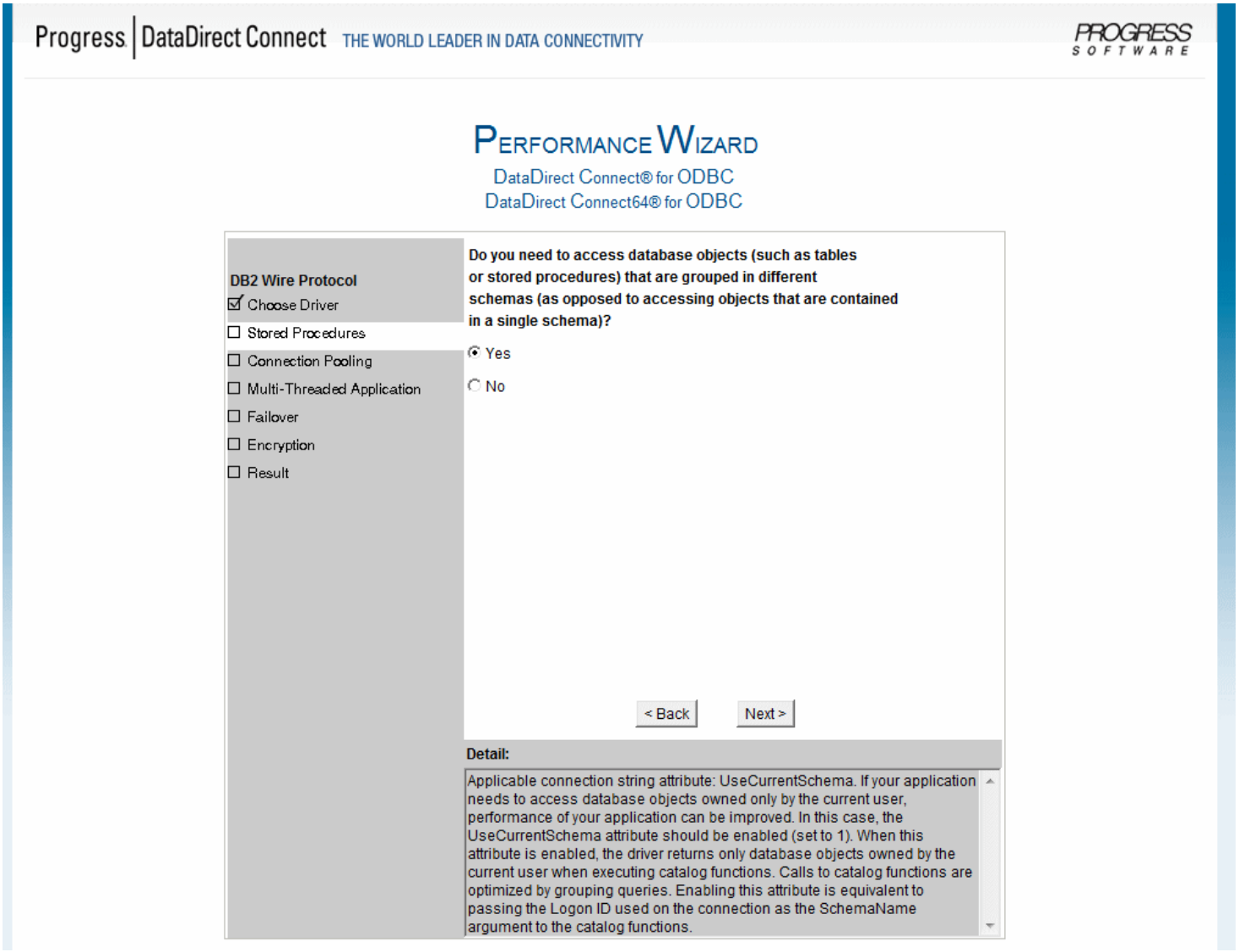
- On Windows, you can start the Wizard by selecting it from the product program group.
- On all platforms, you can start the Wizard by launching the following file from your browser window, where *`install_dir`* is your product installation directory:

  `install_dir`/wizards/index.html

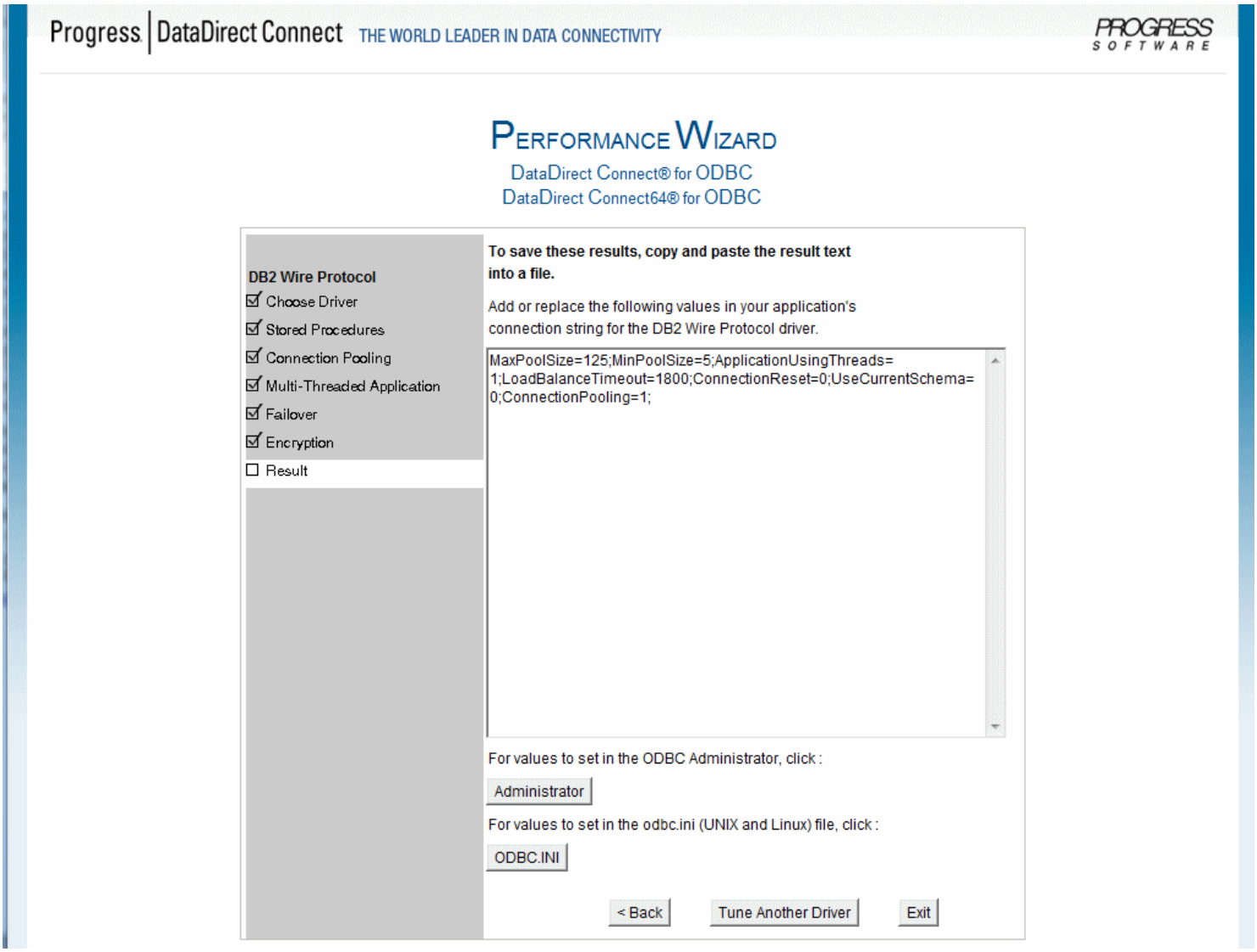
Tuning Performance Using the Wizard

After you start the Wizard, a Welcome window appears. Click **Start** to start the process and select a driver.

The following is an example of one of the questions you may be asked to answer for the DB2 Wire Protocol driver.



When you have answered all questions for a driver, the results appear in the form of a connection string, as shown in the following example:



You can copy these results to an existing connection string for immediate use or to a text file for later reference.

You can click **Administrator** to display a window that provides the values to use for configuring a data source through the ODBC Data Source Administrator.

Refer to "Configuring and Connecting on Windows" in Chapter 1 "Quick Start Connect" of the *DataDirect Connect Series for ODBC User's Guide* for details about configuring data sources.

Using the Data Source Converter

If you have existing 32-bit ODBC drivers and you have installed the equivalent DataDirect drivers, then you can use the Data Source Converter to configure DataDirect data sources to match the settings of your existing User or System data sources. You can either do this when the DataDirect drivers are installed, or later from the DataDirect program group.

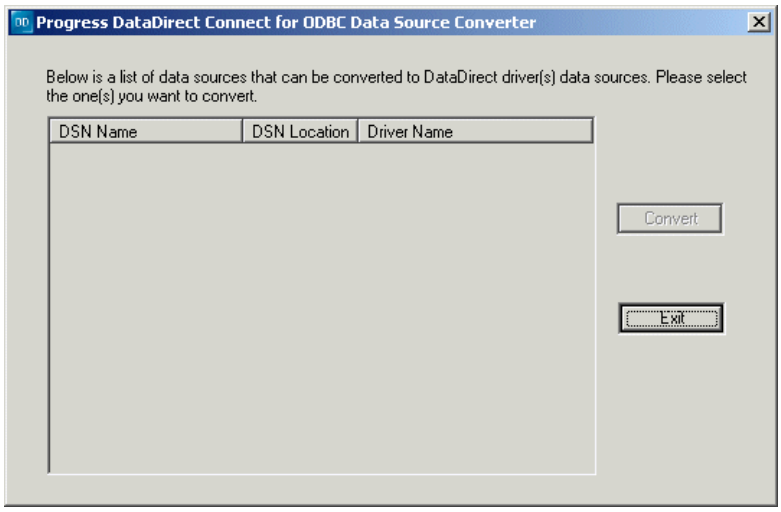
After you launch the converter, it searches your machine for relevant data sources. Currently, relevant data sources include ones based on the following ODBC drivers:

- Oracle driver from Oracle

- Sybase driver from Sybase
- Microsoft SQL Server MDAC driver from Microsoft
- Microsoft SQL Server SNAC driver from Microsoft
- SQL Server Legacy Wire Protocol driver from Progress DataDirect

If no compatible data sources are found, the following window is displayed:

Click **OK**. The following window is displayed:



If the Converter did not find data sources to convert, click **Exit** to exit the application. If the converter found data sources, it displays this window with a list of existing relevant data sources. Select the data sources that you want to convert and click **Convert**. Then, click **Exit** to exit the application.

The new DataDirect data source keeps the name of your original data source. Your original data source is not deleted; it is renamed with `old_` as a prefix. For example, if your original data source is named `My Oracle`, the Converter renames it to `old_My Oracle`.

Installing to a Different Location

If you have the product installed and want to install it in a different location, you must first uninstall it. Then, reinstall the product in the new location.

Uninstalling the Product

You can uninstall the product through the Uninstall Progress DataDirect Connect and Connect XE *for* ODBC 7.1 option in the DataDirect program group or through the Add/Remove Programs feature in the Control Panel.

Upgrading an Evaluation Installation

After an evaluation installation, you may want to upgrade to a licensed installation. You must first uninstall the evaluation installation. Then, reinstall the product using the serial number and key provided to you by Progress DataDirect.

Adding Drivers to Your Installation

If you want to install additional drivers, start the installer (see 3 on page 28). Follow the same procedure as for a licensed installation. Be sure to have the serial numbers and keys available for the additional drivers that you want to install. You must install the additional drivers into the same installation directory.

For More Information

We recommend that you read the readme text file that accompanies the product for current information regarding the release. You can find the latest readme text file at:

https://www.progress.com/resources/documentation/datadirect-documentation

3

Installation on UNIX and Linux

The product includes a Setup program that enables you to install from downloaded files. This chapter describes the procedure for installation of the drivers on AIX, HP-UX, Linux, and Oracle Solaris.

For details, see the following topics:

Before You Install

Important: You must run the UNIX and Linux installer from within the Korn (ksh) shell.

Before you begin the installation:

- Verify that you have write privileges for the installation directory.
- Verify that your system meets the driver's requirements for a database before you install the driver. The driver will not work if these requirements are not met. See Requirements and Support on page 17 for a list of driver requirements.

System Requirements

The following are requirements for the 32- and 64-bit drivers on UNIX/Linux operating systems.

32-Bit Drivers

- All required network software that is supplied by your database system vendors must be 32-bit compliant.
- If your application was built with 32-bit system libraries, you must use 32-bit drivers. If your application was built with 64-bit system libraries, you must use 64-bit drivers (see 64-Bit Drivers on page 47). The database to which you are connecting can be either 32-bit or 64-bit enabled.
- For the Salesforce driver: A 32-bit Java Virtual Machine (JVM), Java SE 8 or higher, is required. See The Salesforce Driver for details. Also, you must set the library path environment variable of your operating system to the directory containing your JVM's `libjvm.so` [`sl` | a] file and that directory's parent directory.

  The library path environment variable is:

  - `LD_LIBRARY_PATH` on Linux, HP-UX Itanium, and Oracle Solaris
  - `SHLIB_PATH` on HP-UX PA-RISC
  - `LIBPATH` on AIX

AIX

- IBM POWER processor
- AIX 5L operating system, version 5.3 fixpack 5 and higher, 6.1, and 7.1
- An application compatible with components that were built using Visual Age C++ 6.0.0.0 and the AIX native threading model

Note: SALESFORCE USERS: When compiling an application on AIX for use with the driver for Salesforce, you must **not** use the `-brtl` option.

Note: TERADATA USERS: When compiling an application on AIX for use with the driver for the Teradata database, you must use the `-brtl` option. For example, use `cc -o pgm pgm.o –brtl -lodbc` or `ld -o pgm –brtl pgm.o -lodbc`

HP-UX

- The following processors are supported:
  - PA-RISC
  - Intel Itanium II (IPF)
- The following operating systems are supported:
  - For PA-RISC: HP-UX 11i Versions 2 and 3 (B.11.23 and B.11.3x), 11i (B.11.11), and 11
  - For IPF: HP-UX IPF 11i Versions 2 and 3 (B.11.23 and B.11.3x)
- For PA-RISC: An application compatible with components that were built using HP aC++ 3.30 and the HP-UX 11 native (kernel) threading model (posix draft 10 threads).

  All of the standard 32-bit UNIX drivers are supported on HP PA-RISC.
- For IPF: An application compatible with components that were built using HP aC++ 5.36 and the HP-UX 11 native (kernel) threading model (posix draft 10 threads)

  Note: All of the standard 32-bit UNIX drivers are supported on HP PA-RISC.

  For IPF, the following DataDirect Connect *for* ODBC are supported:
  - DB2 Wire Protocol
  - Informix Wire Protocol
  - MySQL Wire Protocol
  - Oracle Wire Protocol
  - PostgreSQL Wire Protocol
  - Progress OpenEdge Wire Protocol
  - SQL Server Wire Protocol
  - Sybase Wire Protocol
  - Oracle
  - SQL Server Legacy Wire Protocol

  The following DataDirect Connect XE *for* ODBC drivers are supported:
  - Driver for Apache Hive
  - Greenplum
  - Impala Wire Protocol
  - Salesforce
  - Sybase IQ Wire Protocol

Considerations for Salesforce users:

- PA-RISC: Set the `LD_PRELOAD` environment variable to the `libjvm.sl` from your JVM installation.
- Itanium:
  - Do not link with the –lc linker option.

- Set the `LD_PRELOAD` environment variable to the `libjvm.so` from your JVM installation.

Linux

- The following processors are supported:
  - x86: Intel
  - x64: Intel and AMD
- The following operating systems are supported:
  - CentOS Linux 4.*x*, 5.*x*, 6.*x*, 7.*x*, and 8.*x*
  - Debian 7.11 and 8.5
  - Oracle Linux 4.*x*, 5.*x*, 6.*x*, 7.*x*, and 8.*x*
  - Red Hat Enterprise Linux AS, ES, and WS version 4.*x*, 5.*x*, 6.*x*, 7.*x*, and 8.*x*
  - SUSE Linux Enterprise Server 10.*x*, 11
  - Ubuntu 14.04, 16.04, and 18.04
- An application compatible with components that were built using g++ GNU project C++ Compiler version 3.4.6 and the Linux native pthread threading model (Linuxthreads).

Note: All drivers are supported on Linux except for the Informix driver.

Oracle Solaris

- The following processors are supported:
  - Oracle SPARC
  - x86: Intel
  - x64: Intel and AMD
- The following operating systems are supported:
  - For Oracle SPARC: Oracle Solaris 8, 9, 10, 11.*x*
  - For x86/x64: Oracle Solaris 10, Oracle Solaris 11.*x*
- For Oracle SPARC: An application compatible with components that were built using Oracle Workshop v. 6 update 2 and the Solaris native (kernel) threading model.
- For x86/x64: An application compatible with components that were built using Oracle C++ 5.8 and the Solaris native (kernel) threading model

Note: All of the standard 32-bit UNIX drivers are supported on Solaris SPARC.

For x86, the following DataDirect Connect *for* ODBC drivers are supported:

- DB2 Wire Protocol
- MySQL Wire Protocol
- Oracle Wire Protocol

- PostgreSQL Wire Protocol
- SQL Server Wire Protocol
- Sybase Wire Protocol
- SQL Server Legacy Wire Protocol

The following DataDirect Connect XE *for* ODBC drivers are supported:

- Driver for Apache Hive
- Impala Wire Protocol
- Salesforce (64-bit platforms only)
- Sybase IQ Wire Protocol

64-Bit Drivers

All required network software that is supplied by your database system vendors must be 64-bit compliant.

- For the Salesforce driver: A 64-bit Java Virtual Machine (JVM), Java SE 8 or higher, is required. See The Salesforce Driver for details. Also, you must set the library path environment variable of your operating system to the directory containing your JVM's `libjvm.so` [`sl` | a] file and that directory's parent directory.
- The library path environment variable is:
  - `LD_LIBRARY_PATH` on Linux, HP-UX Itanium, and Oracle Solaris
  - `LIBPATH` on AIX

AIX

- IBM POWER Processor
- AIX 5L operating system, version 5.3 fixpack 5 and higher, 6.1, and 7.1
- An application compatible with components that were built using Visual Age C++ version 6.0.0.0 and the AIX native threading model

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Note: SALESFORCE USERS: When compiling an application on AIX for use with the driver for Salesforce, you must not use the `-brtl` option.

HP-UX

- Intel Itanium II (IPF) processor
- HP-UX IPF 11i operating system, Versions 2 and 3 (B.11.23 and B.11.31)
- HP aC++ v. 5.36 and the HP-UX 11 native (kernel) threading model (posix draft 10 threads)

The following drivers are supported on IPF:

DataDirect Connect64 *for* ODBC drivers	• DB2 Wire Protocol • Informix Wire Protocol • MySQL Wire Protocol • Oracle Wire Protocol • PostgreSQL Wire Protocol • Progress OpenEdge Wire Protocol • SQL Server Wire Protocol • Sybase Wire Protocol • Oracle • SQL Server Legacy Wire Protocol • Text
DataDirect Connect64 XE *for* ODBC drivers	• Driver for Apache Hive • Greenplum Wire Protocol • Impala Wire Protocol • Salesforce • Sybase IQ Wire Protocol • Teradata

NOTES FOR SALESFORCE:

- Do not link with the –lc linker option.
- Set the `LD_PRELOAD` environment variable to the `libjvm.so` of your JVM installation.

Linux

- The following processors are supported:
  - Intel Itanium II (IPF)
  - x64: Intel and AMD
- The following operating systems are supported:
  - For Itanium II:
    - Red Hat Enterprise Linux AS, ES, and WS versions 4.*x*, 5.*x*, 6.*x*, 7.*x*, and 8.*x*
  - For x64:
    - CentOS Linux 4.*x*, 5.*x*, 6.*x*, 7.*x*, and 8.*x*
    - Debian 7.11 and 8.5
    - Oracle Linux 4.*x*, 5.*x*, 6.*x*, 7.*x*, and 8.*x*
    - Red Hat Enterprise Linux AS, ES, and WS version 4.*x*, 5.*x*, 6.*x*, 7.*x*, and 8.*x*

- SUSE Linux Enterprise Server 10.*x*, 11
- Ubuntu 14.04, 16.04, and 18.04

Note: The Oracle (client) driver is not supported on the Red Hat x64 operating system.

- For Itanium II: an application compatible with components that were built using g++ GNU project C++ Compiler version 3.3.2 and the Linux native pthread threading model (Linuxthreads)
- For x64: an application compatible with components that were built using g++ GNU project C++ Compiler version 3.4 and the Linux native pthread threading model (Linuxthreads)

Note: The Greenplum Wire Protocol driver is the only Connect XE driver supported on Linux Itanium. II.

Oracle Solaris

- The following processors are supported:
  - Oracle SPARC
  - x64: Intel and AMD
- The following operating systems are supported:
  - For Oracle SPARC: OracleSolaris 8, 9, 10, and 11.*x*
  - For x64: OracleSolaris 10 and Oracle Solaris 11.*x* Express
- For Oracle SPARC: An application compatible with components that were built using Oracle Workshop v. 6 update 2 and the Solaris native (kernel) threading model
- For x64: An application compatible with components that were built using Oracle C++ Compiler version 5.8 and the Solaris native (kernel) threading model

All of the standard 32-bit UNIX drivers are supported on Solaris SPARC. For x64,The following drivers are supported for Oracle Solaris:

DataDirect Connect *for* ODBC drivers	• DB2 Wire Protocol • MySQL Wire Protocol • Oracle Wire Protocol • PostgreSQL Wire Protocol • SQL Server Wire Protocol • Sybase Wire Protocol • SQL Server Legacy Wire Protocol
DataDirect Connect XE *for* ODBC drivers	• Driver for Apache Hive • Greenplum Wire Protocol • Impala Wire Protocol • Salesforce (64-bit platforms only) • Sybase IQ Wire Protocol

Default Installation Directory

The Setup program lets you specify the directory into which the drivers are installed. By default, the Setup program installs the drivers in this directory:

`/opt/Progress/DataDirect/Connect_for_ODBC_71` (32-bit)

or

`/opt/Progress/DataDirect/Connect64_for_ODBC_71` (64-bit)

Installing from Downloaded Files

This section provides instructions for installing your downloaded files.

Note: The following steps reflect the messages displayed when installing on Solaris. If you are installing on a different UNIX or Linux platform version, the name of that platform is substituted.

Note: OEM CUSTOMERS: Refer to the *DataDirect Connect Series for ODBC Distribution Guide* for information on installing, branding, unlocking, and distributing your branded drivers.

To install the drivers from downloaded files:

1. Download the appropriate product compressed file from the Web site into a temporary directory, for example, `/tmp`.
   - If you are installing an evaluation copy, download the product compressed file from the Progress DataDirect Web site.

- If you are installing a licensed copy, download the product compressed file from the location provided by Progress DataDirect when you purchased the software.

Important: Do **not** download the compressed file to the installation directory that you will specify during the installation.

2. Switch to the temporary directory and uncompress the contents of this file. Enter:

   `uncompress` *`compressed_filename`*

   where *`compressed_filename`* is the name of the file you downloaded, for example, `PROGRESS_DATADIRECT_CONNECT_ODBC_7.1.6_SOL_32.tar.Z` in the case of 32-bit drivers on Solaris. A tar file is extracted from the compressed file.

3. Untar the contents of the tar file. Enter:

   `tar -xvf` *`tar_filename`*

   where *`tar_filename`* is the name of the tar file extracted in Step 2.

   The untarred files appear in the temporary directory.

4. To run Setup, start the installation script unixmi.ksh from the temporary directory:

   ksh unixmi.ksh

   Setup prompts you to answer questions regarding the installation. Default answers for the questions are displayed in square brackets at the end of the prompt. To accept the default value, press **ENTER**.

5. Setup prepares for installation by determining your operating system:

```
The following operating system has been detected:
Solaris

Is this the current operating system on your machine(Y/N)?[Y]
```

   - Press **ENTER** if Setup has detected the correct operating system and go to the next step.
   - Enter `N` if Setup did not detect the correct operating system. The installation is cancelled. Verify that you have the correct product package for the platform on which you are running Setup.

6. The product license agreement appears. Press **SPACEBAR** several times to page to the end of the agreement. At the end, you are asked to accept the agreement:

   - Enter `YES` to accept the license agreement and continue with the installation.
   - Enter anything other than `YES` to abort the installation.

7. The Product Registration prompt appears and requests the following information, one field at a time:

   - Your name
   - Your company name
   - Serial number
   - IPE key

   Enter your name and your company name. Then, perform one of the following actions:

   - If you are installing a *licensed* copy of the product, enter the serial number and key provided to you by Progress DataDirect. Skip to 10 on page 52.

- If you are installing an *evaluation* copy of the product (expires in 15 days), enter EVAL for the Serial Number and Key fields. Proceed to 10 on page 52.

8. Setup displays a prompt that offers you a choice of installing:

   - **Drivers for All Supported Databases**: This group includes one driver for each supported database. Two drivers are available to support Oracle (32- and 64-bit), Informix (32-bit only), and Microsoft SQL Server (32- and 64-bit) databases:

     - In the case of Oracle and Informix, a wire protocol driver that does not require any database client software to connect to the database, and a client-based driver that does require client software. We highly recommend the use of the wire protocol drivers unless you have a requirement for using the client drivers.

     - In the case of Microsoft SQL Server, the SQL Server Wire Protocol driver, and the SQL Server Legacy Wire Protocol driver, we highly recommend the use of the SQL Server Wire Protocol driver unless your application has a requirement for using the Legacy driver.

   - **Single Driver**. In this case, you can select a driver from any of the drivers available for the platform on which you are installing, including the client-based Informix and Oracle drivers (if applicable).

   If you want to evaluate more than one single driver, Setup gives you the opportunity after completion of the initial installation.

   - If you are installing drivers for all supported databases, enter *1* and skip to 10 on page 52.

   - If you are installing a single driver, enter 2 and continue at 9 on page 52.

9. Enter the appropriate number of the single driver you want to install.

10. Setup displays the product registration information that you have entered, and you are prompted to accept or change the information:

    - Press **ENTER** to accept the information.
    - Enter `C` to change the information. You are prompted for the information again.
    - If you are installing with a licensed OEM IPE key (control number), you are prompted for branding information. Please refer to the *DataDirect Connect Series for ODBC Distribution Guide*.

11. You are prompted to enter the full path to the temporary installation directory. The default is `/tmp`. The directory you specify **must** already exist.

12. Setup verifies the amount of available space in the temporary directory. If the amount of space is insufficient for installation, you receive an error message.

13. You are prompted to enter the full path to the installation directory. This **cannot** be the same directory as the temporary installation directory. It also cannot be the directory of an existing previous version of the DataDirect Connect Series *for* ODBC drivers. If the directory you enter does not exist, Setup creates it.

14. After completion of the installation, a message appears indicating that you have installed the software successfully. You are asked if you want to install another product:

    - Press **ENTER** to install another product.
    - Enter `N` to proceed to the next step.

15. If you installed a driver that can be optimized with the Performance Wizard, you have the option to run the Wizard at this time. You are asked if you want to run the Performance Wizard:

    - Enter `N` to exit Setup.

- Enter Y to exit Setup and run the Wizard. See Using the Performance Wizard on page 55 for a description of the Wizard.

This completes the installation. If you chose to launch the Performance Wizard, it appears in a new browser window.

After installation, you must configure drivers and data sources; see Configuring Drivers and Data Sources on page 55 for details.

Silent Installations of Licensed Drivers

The Setup program provides an option for silent installations of licensed drivers. The silent installation is useful for system administrators who want to create a configuration file to execute multiple identical installations of the drivers. The installation is silent in the sense that it requires no user interaction, but it sends output messages to the display as the installation proceeds. Before you can execute a silent installation, you must create a configuration file.

Creating a Configuration File

A silent installation configuration file is a text file that you create, for example, `silent.cfg`. This file must contain the arguments described in the following table.

Table 1: Required Arguments for Silent Installations (Continued)

Argument	Description
TEMPDIR=*temporary directory*	Specifies the full path to the temporary installation directory. The directory you specify **must** already exist.
USER_INSTALL_DIR=*installation directory*	Specifies the full path to the directory where you want to install the drivers. This **cannot** be the same directory as the temporary installation directory. It also cannot be the directory of a previous version of the DataDirect Connect Series *for* ODBC drivers. If the directory you enter does not exist, Setup creates it.
COMPANYNAME=*company name*	Specifies your company name. The company name can include spaces.
CUSTOMER=*user name*	Specifies your name.
KEYLIST=*key value*	Specifies the license key (control number) for your purchased product.
SERIALNUMBER=*serial number value*	Specifies the serial number provided for your purchased product.

For example, the following configuration file installs a licensed copy of the product:

```
CUSTOMER=John Doe
COMPANYNAME=XYZ Inc.
SERIALNUMBER=12345
KEYLIST=12345678
```

```
TEMPDIR=/opt/tmp
USER_INSTALL_DIR=/opt/connectforodbc
```

Performing a Silent Installation

To perform a silent installation:

1. From a command-line prompt, change to the directory where you originally downloaded the Setup program, which contains the installation script `unixmi.ksh`, or ensure that this directory is on your path.
2. Execute a silent installation:

   `ksh unixmi.ksh -f` *`config_file`*

   where *`config_file`* is the location and name of the configuration file that you have created. If the configuration file is named `silent.cfg` and resides in the current working directory, you would enter:

   ```
   ksh unixmi.ksh -f silent.cfg
   ```

   You may also specify an absolute or relative path, for example:

   ```
   ksh unixmi.ksh -f /home/users/johndoe/silent.cfg
   ```

   or

   ```
   ksh unixmi.ksh -f ./install/silent.cfg
   ```

3. The installation proceeds without any further user intervention unless you enter an incorrect value on the command line or in the configuration file, in which case an error is displayed and Setup aborts. You must correct the command line or silent installation configuration file and execute it again.

Testing Your Driver Installation

For basic information about connecting and testing your drivers immediately after installation, refer to "Quick Start Connect" in the *DataDirect Connect Series for ODBC User's Guide.*

Processor Information Utility

Progress DataDirect Customer Support may, on occasion, ask that you use the Processor Information Utility to identify the type of license you need.

From a command shell, change to the following directory:

`install_dir``/tools`

where *`install_dir`* is the path to the product installation directory. Then, enter:

```
ddprocinfo
```

The utility automatically determines the number and type of processors in your machine and displays a information in a command shell window. The message also includes the hexadecimal number that identifies your Progress DataDirect product installation. Provide this number to your Progress DataDirect sales representative or to Customer Support when requested.

Configuring Drivers and Data Sources

Before you can use an installed driver, you must configure a data source for the driver. A data source consists of a data source name, driver location, and optional driver information in the system information file (odbc.ini). Configuration instructions are provided in the online Help for each driver's configuration window and in the appropriate chapter in the *DataDirect Connect Series for ODBC User's Guide*.

You can also use the Performance Wizard, described in the following section, to provide information on optimizing driver performance.

Using the Performance Wizard

The Performance Wizard leads you step-by-step through a series of questions about your application. Based on your answers, the Wizard provides the optimal settings for performance-related connection string options. The Wizard applies to the following drivers:

- DB2 Wire Protocol
- Informix Wire Protocol
- MySQL Wire Protocol
- Oracle Wire Protocol
- SQL Server Wire Protocol
- Sybase Wire Protocol
- Oracle

The Wizard runs as an applet within a browser window. The browser must be configured to run applets. Refer to your browser's documentation for instructions on configuring your browser.

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

Starting the Wizard

You can start the Wizard in the following ways:

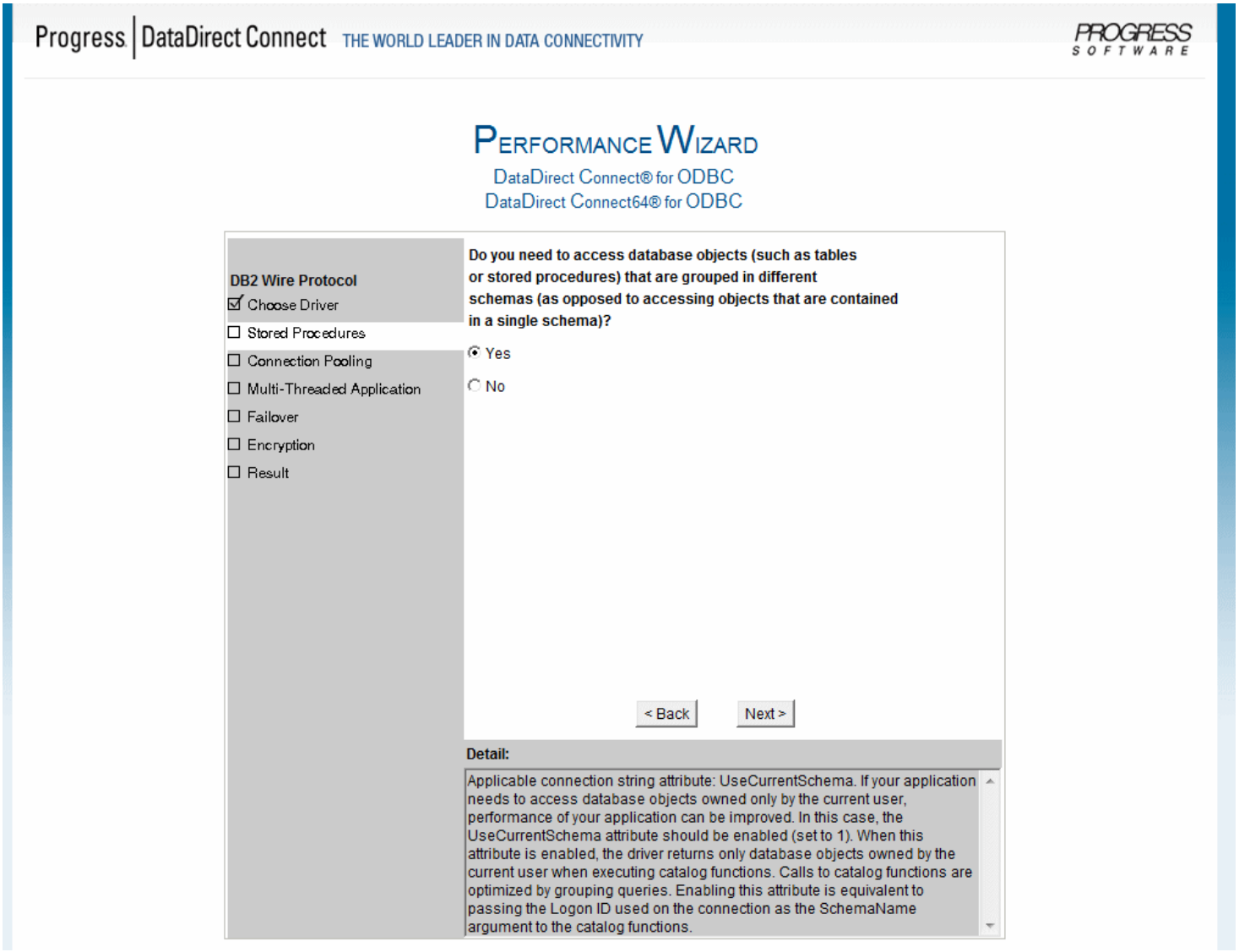
- On Windows, you can start the Wizard by selecting it from the product program group.
- On all platforms, you can start the Wizard by launching the following file from your browser window, where *`install_dir`* is your product installation directory:

  `install_dir`/wizards/index.html

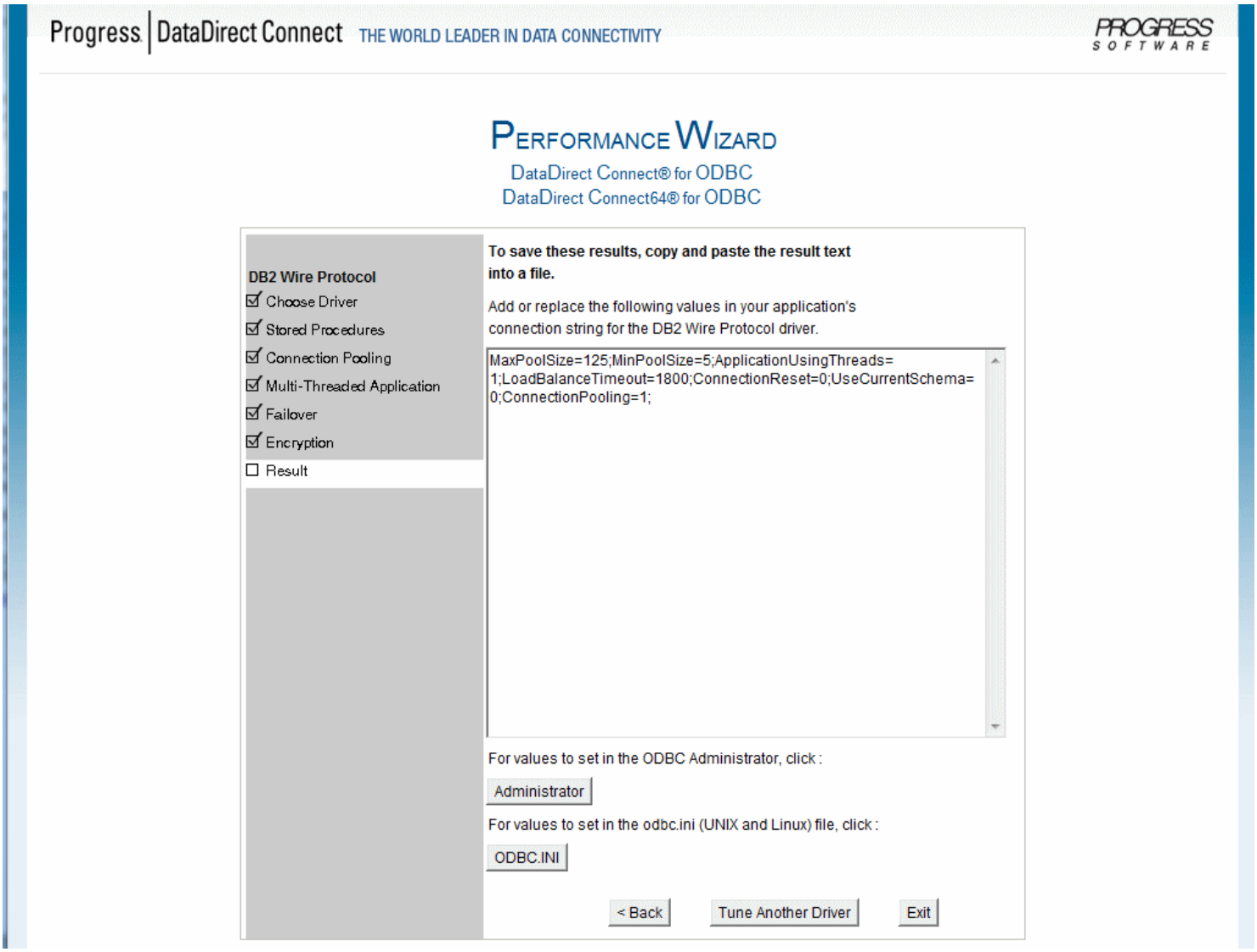
Tuning Performance Using the Wizard

After you start the Wizard, a Welcome window appears. Click **Start** to start the process and select a driver.

The following is an example of one of the questions you may be asked to answer for the DB2 Wire Protocol driver.



When you have answered all questions for a driver, the results appear in the form of a connection string, as shown in the following example:



You can copy these results to an existing connection string for immediate use or to a text file for later reference.

You can click **Administrator** to display a window that provides the values to use for configuring a data source through the DataDirect ODBC Data Source Administrator for UNIX/Linux.

Alternatively, you can click **ODBC.INI** to display a window that provides the values to use for configuring a data source through the `odbc.ini` file.

Refer to "Configuring and Connecting on UNIX and Linux" in Chapter 1 "Quick Start Connect" of the *DataDirect Connect Series for ODBC User's Guide* for details about configuring data sources.

Upgrading an Evaluation Installation

After an evaluation installation, you may want to upgrade to a licensed installation.

To modify your installation:

1. Run the installation script `unixmi.ksh`.
2. Follow Step 5 on page 51 through Step 12 on page 52 under Installing from Downloaded Files on page 50.
3. You are prompted to enter the full path to the installation directory. Enter the path to your existing installation directory.
4. After the installer locates the directory, it displays a list of installed drivers and indicates whether they are licensed or evaluation copies.
   - Press **ENTER** to modify the existing installation. Proceed to Step 5 on page 58.
   - Enter `N` to return to the previous step and enter a different installation directory. This **cannot** be the same directory as the temporary installation directory. Skip to Step 6 on page 58.
5. You are prompted to choose whether you want to create default data sources for each DataDirect driver that you install.

   Warning: This will overwrite any existing default data sources of the same name located in the files specified through the ODBCINI and ODBCINST environment variables. To maintain your current DataDirect default data sources, rename them before you continue.

   - Enter `Y` to create default data sources.
   - Press **ENTER** to proceed with the installation and not create default data sources. You can create data sources later.
6. After completion of the installation, a message appears indicating that you have installed the software successfully. You are asked if you want to install another product:
   - Press **ENTER** to install another product.
   - Enter `N` to proceed to the next step.
7. If you installed a driver that can be optimized with the Performance Wizard, you have the option to run the Wizard at this time. You are asked if you want to run the Performance Wizard:
   - Enter `N` to exit Setup.
   - Enter `Y` to exit Setup and run the Wizard. See Using the Performance Wizard on page 55 for a description of the Wizard.

This completes modification of your installation. If you chose to launch the Performance Wizard, it appears in a new browser window.

Adding Drivers to Your Installation

If you want to install additional drivers, see Upgrading an Evaluation Installation on page 57 and follow the same procedure as for an evaluation upgrade. Be sure to have the serial numbers and keys available for the additional drivers that you want to install.

Uninstalling the ODBC Driver on Linux and UNIX

Delete the ODBC driver installation directory.

For More Information

We recommend that you read the readme text file that accompanies the product for current information regarding the release. You can find the latest readme text file at:

https://www.progress.com/resources/documentation/datadirect-documentation

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