Oracle9*i*AS DataDirect Connect JDBC

Installation Guide

Release 2 (9.0.3)

August 2002

Part No. B10201-01

ORACLE

Oracle9iAS DataDirect Connect JDBC Installation Guide, Release 2 (9.0.3)

Part No. B10201-01

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Preface

This book describes the procedure for installing DataDirect® Connect JDBC™ from a CD-ROM.

What Is DataDirect Connect JDBC?

DataDirect Connect JDBC consists of Type 4 JDBC drivers that enable you to connect to a variety of databases from these platforms:

Windows

- Windows 9*x*
- Windows Me
- Windows NT
- Windows 2000

UNIX

- AIX
- HP-UX
- Sun Solaris
- Linux (Red Hat, Caldera, SuSE)

If you purchased the Connect JDBC Pack for one or more of these platforms, you can install any or all of the drivers. If you purchased Connect JDBC Single Driver, you can install only one driver per platform for the number of platforms purchased.

Using This Book

This book can be used by system and database administrators and any users who need JDBC drivers to access databases. It is assumed that you are familiar with the operation of your system, and that you understand how to navigate to directories on your system and on any networks attached to your system.

This book explains how to install DataDirect Connect JDBC on a local drive under Windows and UNIX platforms.

For the latest information about the specific DataDirect drivers available for your platform, see the README file in your software package.

Typographical Conventions

This book 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**.
UPPERCASE	Indicates the name of a file. For operating environments that use case-sensitive file names, the correct capitalization is used in information specific to those environments. Also indicates keys or key combinations that you can use. For example, press the ENTER key.
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`*.
forward slash /	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.
vertical rule |	Indicates an "OR" separator used to delineate items.

Convention	Explanation
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.

About Connect JDBC Documentation

The Connect JDBC library consists of the following books:

- *Connect JDBC Installation Guide* details requirements and procedures for installing Connect JDBC.
- *Connect JDBC User's Guide and Reference* provides both general and driver-specific information about using Connect JDBC, as well as about enhancing driver performance.
- *Designing Enterprise Applications with Java 2 Enterprise Edition*, a Sun publication, provides valuable information about application design.

Connect JDBC documentation is provided on your DataDirect CD in PDF format, which allows you to view it online or print it. You can view the Connect JDBC online documentation using Adobe Acrobat Reader. The DataDirect CD includes Acrobat Reader 4.*x* with Search.

Online books are placed on your system during normal installation of Connect JDBC. They are located in the books directory that is created within the installed driver directory. See Chapter 3, "Installing and Viewing Online Books," for complete information about installing the online documents independently of the installer, as well as about viewing the documents.

HTML-based online help is also placed on your system during normal installation of Connect JDBC. It is located in the help directory that is created within the installed driver directory.

To access help, you must have Internet Explorer 5.*x* or higher, or Netscape 4.*x* or higher installed. In a GUI environment, navigate to the help directory and open the file ConnectJDBChelp.htm.

To access help from a command-line environment, at a command prompt, enter:

browser_exe install_dir`/help/connectjdbchelp.htm`

where *browser_exe* is the name of your browser executable and *install_dir* is the path to the directory in which the JDBC drivers are installed.

1

Before You Install

Before you install Connect JDBC, you need to verify that you have a supported version of the database and that your system meets certain requirements.

Supported Databases

Table 1–1 shows the databases supported by each Connect JDBC driver.

Table 1–1 Databases Supported by Connect JDBC

Driver	Supported Databases
DB2	DB2 Universal Database versions 6 and 7 for Windows NT, Windows 2000, and UNIX, including Linux DB2 for OS/390, versions 5.x, 6.x, and 7.1 (7.1 functionality not exposed)
Informix	Informix Dynamic Server 9.*x* and 2000 for Windows and UNIX
SQL Server	SQL Server 7.0 and SQL Server 2000 for Windows
Sybase ASE	SQL Server System 11 and Adaptive Server 11.5 and higher for Windows and UNIX

System and Product Requirements

A complete installation of the Connect JDBC Driver Pack, including documentation, requires approximately 7 MB of hard disk space.

Table 1–2 lists the product requirements for using Connect JDBC.

Table 1–2 Product Requirements for Connect JDBC

For applications using...	Product Requirements
JDBC 1.22 API	JDK 1.1.*x* or higher compatible JVM
JDBC 2.0 Core API	JDK 1.2 or higher compatible JVM
JDBC 2.0 Optional Package	JDK 1.2 or higher compatible JVM Also, the following APIs are required and are supplied with Connect JDBC: ■ JDBC Optional Package 2.0 ■ JNDI 1.2

DataDirect Connect JDBC Driver

A customized version of the DataDirect Connect JDBC driver is shipped with Oracle9*i*AS to provide connectivity to non-Oracle databases. Do not use the DataDirect Connect JDBC driver outside of Oracle9*i*AS. You should refer to standard DataDirect documentation and release notes for technical information on the DataDirect JDBC driver. However, it is important to note the differences between the standard DataDirect JDBC driver and this customized version:

1. The customized DataDirect driver jar files use the YM prefix. The following DataDirect jar files are distributed with Oracle9*i*AS:

   ```
   YMbase.jar  YMinformix.jar  YMsqlserver.jar  YMutil.jar YMdb2.jar
   YMsybase.jar
   ```

2. The URL sub-protocol prefix is `oracle`. When you connect, use the correct sub-protocol. For example:

   ```
   jdbc:oracle:db2://server1:1433
   ```

3. The package names are `com.oracle.ias`.
4. The vendor message prefix is `[oias]`.
5. The customized DataDirect driver is configured to run within the Oracle9iAS product. Attempting to use the customized DataDirect JDBC driver outside Oracle9*i*AS, will yield the following exception:

   ```
   java.sql.SQLException: [oias][... JDBC Driver]
   ```

This driver is locked for use with embedded applications.

Evaluation Installations

The installer allows you to install all of the Connect JDBC drivers for a 30-day evaluation.

2

Installation on Windows and UNIX

Before you start installation, verify that your system meets the specified requirements. Refer to Chapter 1, “Before You Install” for a list of these requirements.

Installation

To install Connect JDBC on your local drive:

1. Decide on an installation directory for Connect JDBC. Choose an existing directory on your machine or create a new one.
2. Locate the Connect JDBC jar file in the appropriate platform-specific directory on the DataDirect CD. Copy or download the jar file to the installation directory on your machine.
3. Change to the Connect JDBC installation directory and unjar the contents of the file. Enter:

   ```
   jar -xvf jar_filename
   ```

   where *jar_filename* is the name of the Connect JDBC jar file.

   The Connect JDBC files are unjarred in the correct structure inside the installation directory. Included in these files is the License Tool.
4. You must run the License Tool to complete the installation. Do one of the following:

- If you prefer to use a Graphical User Interface (GUI), go to "The GUI License Tool" on page 2-2 for instructions.
- If you prefer to use the command line, go to "The Command-Line License Tool" on page 2-3 for instructions.

The GUI License Tool

1. At a command prompt, change to the Connect JDBC installation directory.
2. Start the License Tool by entering the following command:

   ```
   java -cp LicenseTool.jar com.merant.datadirect.jdbc.licensetool.LicenseTool
   ```

   The JDBC License Tool dialog box appears.

   You can exit at any time by clicking **Close**.

   - If this is a licensed installation, proceed to Step 3
   - If this is an evaluation installation, skip to Step 4

3. For a licensed installation, complete all of the fields as follows:

   Key: Type the key for a licensed installation, which is provided to you by DataDirect.

   Driver: Type one of the following:

   pack
   db2
   db2OS390
   informix
   sybase
   sqlserver

   Pack includes all the drivers; the other options are single-driver installations.

   Installation Directory: Type the full path, including the drive letter on Windows machines, of the Connect JDBC installation directory that you have chosen. Or, you can browse to the directory by clicking the Browse (...) button.

   Skip to Step 5

4. For an evaluation installation, complete all of the fields as follows:

   Key: Type EVAL.

   Driver: Type EVAL.

   Installation Directory: Type the full path, including the drive letter on Windows machines, of the Connect JDBC installation directory that you have chosen. Or, you can browse to the directory by clicking the Browse (...) button.

Note: An evaluation installation automatically installs all of the drivers. If you later want to perform a licensed installation, simply run the License Tool again.

5. Click **Finish** to complete the installation.
6. When installation is complete, click **Close** to close the License Tool.

The Command-Line License Tool

1. At a command prompt, change to the Connect JDBC installation directory.
   - If this is a licensed installation, proceed to Step 2
   - If this is an evaluation installation, skip to Step 3
2. Run the License Tool for a licensed installation by specifying switches on the command line. You must specify values for all of the switches. Use the following syntax:

   ```
   java -cp LicenseTool.jar com.merant.datadirect.jdbc.licensetool.LicenseTool
   -k key -d driver_package -i installation_directory
   ```

   where:

   key is the key for a licensed installation, which is provided to you by DataDirect.

   driver_package is one of the following:

   pack
   db2
   db2OS390
   informix
   sybase
   sqlserver

   Pack includes all the drivers; the other options are single-driver installations.

   installation_directory is the full path, including the drive letter on Windows machines, to the Connect JDBC installation directory.

Note: If the directory path contains spaces, you must use double quotation marks around the path name, for example:

```
-i "/home/users/jdbc drivers/install"
```

To license the Sybase driver, for example, located in /home/users/jdbc/install on a UNIX machine, you would enter the following command:

```
java -cp LicenseTool.jar com.merant.datadirect.jdbc.licensetool.LicenseTool -k xxxxxxxx -d sybase -i
/home/users/jdbc/install
```

3. Run the License Tool for an evaluation installation by specifying switches on the command line. You must specify values for all the switches. Use the following syntax:

```
java -cp LicenseTool.jar com.merant.datadirect.jdbc.licensetool.LicenseTool -k EVAL -d EVAL -i installation_
directory
```

where *installation_directory* is the full path, including the drive letter on Windows machines, to the Connect JDBC installation directory.

Note: If the directory path contains spaces, you must use double quotation marks around the path name, for example:

```
-i "c:\jdbc drivers\install"
```

For example, to complete an evaluation installation located in c:\jdbc drivers\install, you would enter the following command:

```
java -cp LicenseTool.jar com.merant.datadirect.jdbc.licensetool.LicenseTool -k EVAL -d EVAL -i "c:\jdbc
drivers\install"
```

Note: An evaluation installation automatically installs all of the drivers. If you later want to perform a licensed installation, simply run the License Tool again.

4. The installation is complete after running the License Tool.

Uninstalling

To uninstall, delete the entire installation directory.

For More Information

We recommend that you read the README text file that accompanies the product for current information regarding the release.

3

Installing and Viewing Online Books

The DataDirect CD provides online books for the DataDirect Product Series. In addition, it provides Adobe Acrobat Reader, which is required to view the online books.

Some of the DataDirect product installers allow you to install the online books along with the product. In this case, the books are installed in the product's installation directory in a directory named books. To install the books when installing the product, remember to select the Online Books component.

The Connect JDBC installer automatically installs the online books into the Connect JDBC installation directory in a directory named books.

This chapter explains how to:

- Install the online books without using a product installer
- View the online books
- Customize the online books
- Install Acrobat Reader from the CD

About DataDirect's Online Books

You can view the online books from the CD or install them to a local or network location. You must view the online books using Acrobat Reader 3.*x*, or later, licensed from Adobe Systems. The DataDirect CD includes Acrobat Reader 4.*x* with Search.

You can print the online books to create high-quality, hard-copy books. While viewing an online book in the Acrobat Reader, select **File** / **Print** to print the entire file (book), the current page, or a range of pages.

Note: If you want to view the online books on a Windows 3.1*x* machine, you must view the online books with Acrobat Reader 3.*x*.

Installing the Online Books

If you want to install the online books without using a product installer, you must maintain the same directory structure that is on the CD. You can install all the online books or specific ones:

- **To install all product books**, copy the entire \books directory to your local or network drive.
- **To install a specific set of books**, copy that book's directory structure (beneath the \books directory) to your local or network drive. For example, to install the Connect ODBC books, you would copy the entire odbc directory beneath the books directory (\books\odbc).

Viewing the Online Books

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

If you want to keep the books.pdf file open until you choose to close it, go to the Reader menu bar and select **File** / **Preferences** / **General**. Clear the check box for the **Open Cross-Document Links in Same Window** option.

Note: If you do not already have Acrobat Reader installed, you must install it before you can view the books. See "Installing Acrobat Reader" on page 3-6 for details.

To View the Online Books:

1. Start Acrobat Reader in one of the following ways:
   - For Windows, click Start on the Taskbar and select Programs. Select the Adobe Acrobat folder that was created during the installation of the Acrobat Reader, and click the Acrobat Reader icon.

- For **UNIX**, you can start the Reader from the command line by using its launch script:
- If the launch script directory is in the search path set by the PATH environment variable, type the following to start Acrobat Reader:
- % acroread
- If the launch script directory is not set in the PATH environment variable, type:

  ```
  % /acrobatreaderinstalldir/bin/acroread
  ```

2. On the Reader menu bar, select **File** / **Open**, and choose the path where the books.pdf file resides. For example, for SequeLink:

   D:\Program Files\Merant\slodbc51\books\slnk\books.pdf

   or for Connect ODBC:

   D:\Program Files\Merant\books\odbc\books.pdf

3. Click **Open**.

   While viewing the online books, you can use *hypertext links*, perform *text searches*, and use *bookmarks*.

Using Hypertext Links

Cross-reference links within online books allow you to jump to related topics and other books within a product's documentation set. These links are displayed in blue and allow you to jump to a cross reference with a single click of the mouse. The page numbers in the table of contents and index are also hypertext links.

Performing Text Searches

With Acrobat Reader with Search, you can perform full-text, boolean searches across all of a product's online books. You type a query and Acrobat Reader displays the matching text.

Note: If you will be performing searches across online books on the CD over a non-UNIX network, you must explicitly map to the network drive that contains the CD to enable the Search tool.

The search indexes for DataDirect online books were created with the word stemming search option. This option finds words that share a stem with a search word. For example, if you search for "programming," the Reader will also find "program" and "programs." The search indexes were not created using the Sounds Like and Case Sensitive options. Therefore, you cannot use these options when searching online books. Finally, numbers are not included in the search index and will not be found by a search.

Using Bookmarks

All of the online books contain predefined bookmarks that make it easy for you to quickly jump to a specific topic. By default, the bookmarks are displayed to the left of each online book. For more information about using Acrobat Reader, refer to the online help for the product.

Customizing the Online Books

If you have Adobe Acrobat Exchange 3.0 or higher, you can customize the online books to reflect information specific to your work environment. For example:

- **Notes:** You can embed notes within an online book to help identify important procedures or helpful hints specific to your organization. A note appears in the online books as a note icon; double-click the icon to view the embedded note text.
- **Bookmarks.** You can also add customized bookmarks to an online book to help you find topics even faster. Bookmarks can be used to jump to topics within a book, or to other PDF files.

For specific instructions on how to customize a book, refer to the Acrobat documentation.

About Acrobat Reader

You must view the online books using Acrobat Reader 3.*x*, or later, licensed from Adobe Systems. This CD includes the English version of Acrobat Reader 4.*x* with Search for the following platforms: Windows 9*x*, Windows NT, Windows 2000, Solaris, IBM-AIX, and HP-UX. The CD also includes Acrobat Reader 4.*x* without search for the Linux platform; Acrobat Reader 4.*x* with Search is not available at this time on Linux.

DataDirect software products may support platforms that are not supported by the Reader. To view the online books for these products, you must do so on a platform that the Reader does support.

Note: For the latest information about supported platforms for Acrobat Reader, refer to the Adobe Web site at:

http://www.adobe.com/prodindex/acrobat/readstep.html

Product Requirements for Acrobat Reader 4.*x*

Note: If you want to view the online books on a Windows 3.1*x* machine, you must view the online books with Acrobat Reader 3.*x*.

Windows Platforms

- 486 or Pentium processor-based personal computer
- Microsoft Windows 9*x*, Windows NT 4.0 with Service Pack 3 or later, Windows 2000
- 10 MB of RAM for Windows 9*x* (16 MB recommended); 16 MB of RAM for Windows NT and Windows 2000 (24 MB recommended)
- A hard disk with at least 10 MB of free disk space
- CD-ROM drive, locally or on a network

Sun SPARCstation Workstations

- Solaris 2.3 or later operating system (Acrobat Reader will not run on SunOS, Solaris 2.0, 2.1, or 2.2)
- Sun OpenWindows 3.0 or later, Motif 1.2.3 or later, OpenLook 3.0, or Common Desktop Environment (CDE) 1.0 or later
- A hard disk with at least 12 MB of free disk space
- 32 MB of RAM
- CD-ROM drive, locally or on a network

HP Workstations

- HP 9000 Series Workstations model 700 or 800
- HP-UX 9.0.3 or later operating system
- X Window System X11R5 running HP-VUE or Common Desktop Environment (CDE) 1.0 or later
- 32 MB of RAM
- A hard disk with at least 12 MB of free disk space
- CD-ROM drive, locally or on a network

IBM-AIX Workstations

- RS/6000 workstation
- AIX 4.2.1 or later operating system
- Common Desktop Environment (CDE) 1.0 or later, or Motif
- 32 MB of RAM
- A hard disk with at least 12 MB of free disk space
- CD-ROM drive

Linux

- Red Hat Linux 5.1 or later (non-glibc versions)
- 32 MB of RAM
- A hard disk with at least 12 MB of free disk space

Installing Acrobat Reader

The CD contains Acrobat Reader 4.*x*. To view the online books, you must have Acrobat Reader 3.*x* or later installed on a local or network location. You cannot start the Reader directly from the CD. If you already have a copy of the correct version of Acrobat Reader with Search installed on your machine, you can skip the procedure documented in this section.

Network Administrators: To allow users to install Acrobat Reader from a network location, copy the entire \Readers*platform* directory and its contents from the CD into a directory on the network server.

Windows Platforms

The instructions to install the Reader are the same whether you install it locally or to the network.

To install Acrobat Reader:

1. Insert the DataDirect CD into the CD-ROM drive. If the CD-ROM drive is on a network, you must mount the CD and create a mapping to the CD-ROM drive.
2. Start the Setup program as follows, substituting the appropriate CD-ROM drive letter if necessary.

   From Windows Explorer, navigate to the drive and directory containing the Reader; then, double-click the self-extracting program:

   drive:\Readers\Win95nt\rs405eng.exe
3. Follow the on-screen instructions to complete the installation.

UNIX Platforms

To install Acrobat Reader on UNIX:

1. Insert the CD into the CD-ROM drive.
2. Mount the drive on a local workstation as a file system.

   NOTE: To mount a CD-ROM drive, you must know your system's root password. If you do not know the password, contact your system administrator

   a. The following examples assume that the /cdrom mount point is available on your UNIX system. If not, replace /cdrom with a valid mount point.

   b. Open a UNIX shell.

   c. Change to the root user and type the root password:

   d. # su - root

   e. Password: *root_password*

   f. On Solaris, by default the CD-ROM drive mounts automatically when you insert the CD. The other UNIX platforms supported do not automatically

mount the CD by default. If your workstation is not configured to automatically mount a CD, you must enter the command for mounting the drive.

- For HP-UX, enter:

  # mount -F cdfs -o cdcase *device mount_point*

  where *device* is the device name assigned to your CD-ROM drive. The device name can be found using the HP-UX tool sam.

  For example, if the device name for your CD-ROM drive is /dev/dsk/c0t4d0 and you want to mount it over the directory /cdrom, you would enter the following command:

  # mount -F cdfs -o cdcase /dev/dsk/c0t4d0 /cdrom

- For IBM-AIX, enter:

  # mount -r -v cdrfs /dev/*device* /cdrom

  where *device* is the device name assigned to your CD-ROM drive. The device name can be found using the AIX tool smith.

- For Linux, enter:

  # mount -r -t iso9660 /dev/*device* /mnt/cdrom

  where *device* is the device name assigned to your CD-ROM drive.

3. Verify that the drive containing the CD is mounted by entering:

   # mount

   You should see a list of mounted file systems, including the CD-ROM drive you just mounted.

   Copy the appropriate Acrobat Reader compressed file (.Z file) from the CD to your UNIX machine:

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