SYBASE®

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Installation Guide

jConnect™ for JDBC™

7.07

Contents

About This Book

This book contains the installation instructions for jConnect™ for JDBC™ version 7.07.

Audience
This book is for any person installing or configuring jConnect for JDBC 7.07. It is also for programmers who are designing applications for use directly with jConnect.

How to use this book
The information in this book is organized as follows:

- Chapter 1, "Before You Begin," lists the jConnect components included with your jConnect installation and the jConnect system requirements.

- Chapter 2, "Installing jConnect for JDBC," provides detailed instructions for installing jConnect.

- Chapter 3, "Postinstallation Tasks," provides the tasks you must perform to test your installation and configure jConnect.

- Chapter 4, "Uninstalling jConnect for JDBC," provides detailed instructions for uninstalling jConnect.

- Chapter 5, "Using jConnect Documentation," provides information on the documentation set for this product.

Related documents
See these books for more information:

- The Sybase® *jConnect for JDBC Release Bulletin* contains important last-minute information about jConnect.

- The Sybase *jConnect for JDBC Programmers Reference* describes the jConnect for JDBC product and explains how to use it to access data stored in relational database management systems.

- The *Ribo 3.0 Users Guide* describes the Ribo utility that captures, translates, and displays the Tabular Data Stream (TDS) protocol flowing between a TDS client and a TDS server. TDS clients include jConnect for JDBC, isql, Adaptive Server® Enterprise ODBC driver, and Open Client™. TDS servers include Adaptive Server Enterprise, Adaptive Server Anywhere, Sybase IQ, and Open Server™.

• The javadoc documentation of jConnect extensions to JDBC. The Java Development Kit (JDK) from Java Software contains a javadoc script for extracting comments from source-code files. This script has been used to extract documentation of jConnect packages, classes, and methods from jConnect source files. When you install jConnect using the full installation or javadocs option, the javadoc information is placed in the *javadocs* directory *Installation_directory/docs/en/javadocs.*

Other sources of information

Use the Sybase Getting Started CD and the Sybase Product Documentation Web site to learn more about your product:

• The Getting Started CD contains release bulletins and installation guides in PDF format. It is included with your software. To read or print documents on the Getting Started CD, you need Adobe Acrobat Reader, which you can download at no charge from the Adobe Web site using a link provided on the CD.

• The Sybase Product Documentation Web site is accessible using a standard Web browser. In addition to product documentation, you will find links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, newsgroups, and the Sybase Developer Network.

  To access the Sybase Product Documentation Web site, go to Product Documentation at http://www.sybase.com/support/manuals/.

Sybase certifications on the Web

Technical documentation at the Sybase Web site is updated frequently.

❖ **Finding the latest information on product certifications**

1 Point your Web browser to Technical Documents at http://www.sybase.com/support/techdocs/.

2 Click Partner Certification Report.

3 In the Partner Certification Report filter select a product, platform, and timeframe and then click Go.

4 Click a Partner Certification Report title to display the report.

❖ **Finding the latest information on component certifications**

1 Point your Web browser to Availability and Certification Reports at http://certification.sybase.com/.

2 Either select the product family and product under Search by Base Product; or select the platform and product under Search by Platform.

3 Select Search to display the availability and certification report for the selection.

❖ **Creating a personalized view of the Sybase Web site (including support pages)**

Set up a MySybase profile. MySybase is a free service that allows you to create a personalized view of Sybase Web pages.

1   Point your Web browser to Technical Documents at http://www.sybase.com/support/techdocs/.

2   Click MySybase and create a MySybase profile.

Sybase EBFs and software maintenance

❖ **Finding the latest information on EBFs and software maintenance**

1   Point your Web browser to the Sybase Support Page at http://www.sybase.com/support.

2   Select EBFs/Maintenance. If prompted, enter your MySybase user name and password.

3   Select a product.

4   Specify a time frame and click Go. A list of EBF/Maintenance releases is displayed.

Padlock icons indicate that you do not have download authorization for certain EBF/Maintenance releases because you are not registered as a Technical Support Contact. If you have not registered, but have valid information provided by your Sybase representative or through your support contract, click Edit Roles to add the "Technical Support Contact" role to your MySybase profile.

5   Click the Info icon to display the EBF/Maintenance report, or click the product description to download the software.

Conventions   The conventions used in this book are shown in Table 1.

Table 1: Conventions

Key	Definition
command	Command, method, and utility names are shown in a bold font. Bold is also used for emphasis.
variable	Variables, or words that stand for values you fill in, are shown in italics. File names are also shown in italics.
`user input`	Values that you enter are shown in a bold monospaced font.
`computer output`	Computer output is shown in a regular monospaced font.

Accessibility features

This document is available in an HTML version that is specialized for accessibility. You can navigate the HTML with an adaptive technology such as a screen reader, or view it with a screen enlarger.

jConnect for JDBC and the HTML documentation have been tested for compliance with U.S. government Section 508 Accessibility requirements. Documents that comply with Section 508 generally also meet non-U.S. accessibility guidelines, such as the World Wide Web Consortium (W3C) guidelines for Web sites.

The online help for this product is also provided in HTML, which you can navigate using a screen reader.

Note You might need to configure your accessibility tool for optimal use. Some screen readers pronounce text based on its case; for example, they pronounce ALL UPPERCASE TEXT as initials, and MixedCase Text as words. You might find it helpful to configure your tool to announce syntax conventions. Consult the documentation for your tool.

For information about how Sybase supports accessibility, see Sybase Accessibility at http://www.sybase.com/accessibility. The Sybase Accessibility site includes links to information on Section 508 and W3C standards.

If you need help

Each Sybase installation that has purchased a support contract has one or more designated people who are authorized to contact Sybase Technical Support. If you cannot resolve a problem using the documentation or online help, please have the designated person contact Sybase Technical Support or the Sybase subsidiary in your area.

Before You Begin

This chapter provides information about system requirements and the tasks you must perform before you install jConnect.

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Product components

jConnect includes these components:

- JDBC driver – implements the JDBC standard to provide optimal connectivity to the complete family of Sybase products, allowing access to over 25 enterprise and legacy systems, including Adaptive Server® Enterprise, SQL Anywhere®, Sybase® IQ, Replication Server®, and DirectConnect™.

- Ribo – allows database developers to capture and view communication between jConnect and a database. Ribo can also decode Tabular Data Stream™ (TDS) messages, which Sybase databases use to communicate with client applications, helping developers to diagnose problems.

Reviewing system requirements

Table 1-1 lists the system requirements for installing jConnect for JDBC.

Table 1-1: System requirements

Hardware and operating system	Any version of these platforms that support Java 6:
	• Apple Mac OS X Intel
	• HP HP-UX Itanium 32-bit or 64-bit
	• HP HP-UX PA-RISC 32-bit or 64-bit
	• IBM AIX POWER 32-bit or 64-bit
	• Linux x86 32-bit or x86-64 64-bit
	• Linux POWER 32-bit or 64-bit
	• Solaris x86-64 32-bit or 64-bit
	• Solaris SPARC 32-bit or 64-bit
	• Microsoft Windows x86 32-bit or x86-64 64-bit
	For the most current list of supported operating systems, see the Sybase platform certifications page at http://certification.sybase.com/ucr/search.do
Memory	16MB
Disk space	Approximately 12MB for the default options.
	Space requirement by component:
	• JDBC driver – 9MB
	• Ribo – 3MB
	Note Ribo is dependent on the JDBC driver; when you install Ribo, the JDBC driver is also installed.
Java Developer's Kit (JDK) or Java Runtime Environment (JRE)	JDK 6 or later, or JRE 6 or later.
Other Sybase products (optional)	Sybase IQ, OmniConnect™, DirectConnect.
Web server (optional)	For jConnect's TDS-tunnelling servlet, any Web server that supports the HTTPS protocol and javax.servlet interfaces.

Installing jConnect for JDBC

This chapter contains instructions for installing jConnect on Microsoft Windows and UNIX platforms. These instructions apply *only* to the standalone jConnect product. To install jConnect included with Adaptive Server, Software Developer's Kit, or other Sybase products, use the installation guide for that product.

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Downloading jConnect

jConnect is available on the Sybase Software Download Web site or from a CD. If you cannot download jConnect from the Sybase Web site, contact Sybase Technical Support to request for a CD.

❖ **Downloading jConnect**

1   Log in to the Sybase Software Download Web site at http://downloads.sybase.com.

    The product list page appears.

2   Select jConnect for JDBC.

    The latest versions of jConnect for JDBC appears.

3   Select the jConnect for JDBC software that you need.

4   Read the Sybase End User License Agreement. Select I Agree.

5   Read the Export Control Restrictions. Select I Agree.

6   Click Continue.

    The product download page lists the software package and the EBF-related documentation for jConnect.

7   Download and uncompress the jConnect software package.

> **Note** The software package contains jConnect installers for both
> Microsoft Windows and UNIX, as well as the EBF-related documentation.

Mounting the CD

Insert the jConnect CD in the CD drive and, if necessary, mount the CD.

> **Note** The location of the mount command is server-specific and may differ
> from the instructions shown here. If you cannot mount the CD drive using the
> path shown, check your operating system documentation or contact your
> system administrator.

* For HP HP-UX:

    Log out, log in as "root," and mount the CD using:

    ```
    mount -F cdfs -o ro,rr /device_name /cdrom
    ```

    Then, log out and log in again as "sybase."

* For IBM AIX:

    Log in as "sybase," and mount the CD:

    ```
    /usr/sbin/mount -v cdrfs -r device_name /cdrom
    ```

    where:

    * *device_name* is the CD drive device name.

    * */cdrom* is the name of the directory where the CD is to be mounted.

* For Solaris:

    The operating system automatically mounts the CD. Log in as "sybase." If
    you receive CD-reading errors, check your operating system kernel to
    make sure the ISO 9660 option is turned on. On Solaris, the CD drive
    device name is */cdrom/cdromx*, where *x* is the number of the CD device.

* For Linux:

    The operating system automatically mounts the CD.

Installing jConnect

This section describes how to install jConnect using these installation modes:

1   GUI (graphical user interface) mode – installs the components using the jConnect installer interface.

2   Console mode – installs components in a command line environment.

If you encounter the following JVM error, download and install JDK 6 or JRE 6:

```
./setup.bin
Preparing to install...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...
No Java virtual machine could be found from your PATH environment variable. You
must install a VM prior to running this program.
```

Note Install JDK if you plan to develop programs that use jConnect.

Installing in GUI mode

Follow these steps to install jConnect in GUI mode.

Note The setup program is located in the *Disk1/InstData* directory on the jConnect CD. Change to this location or add the directory to the installation command.

❖   **Installing in GUI mode**

1   For Microsoft Windows, ensure that your login ID has administrative privileges. For UNIX, ensure that your login ID has write-access to the install directory.

2   Start the installer.

   •   For Microsoft Windows: If you are installing from the CD, the installer should start automatically. If it does not, or if you are installing from a downloaded file, select Start | Run, and enter:

      x:\path\setup.exe

where *setup.exe* is the executable file that installs jConnect, and *x:\path* is the path to *setup.exe*.

• For IBM AIX, Linux, and Solaris:

```
cd /cdrom/cdromn/pathname
./setup.bin
```

• For HP HP-UX:

```
cd /cdrom/pathname
./setup.bin
```

where:

• *cdrom/cdromn* is the directory (mount-point) you specified when mounting the CD drive. For example, on Solaris the mount-point can be *cdrom/cdrom0*.

• *setup.bin* is the executable file that installs jConnect.

Note If *JDK_or_JRE_installation_directory/bin* is not defined in the PATH environment variable, call setup.exe (Microsoft Windows) or setup.bin (UNIX platforms) using the LAX_VM *java_binary_path* argument. For example:

• Microsoft Windows:
```
.\setup.exe LAX_VM "C:\Program
Files\Java\jre1.6.0_06\bin\java.exe"
```

• UNIX platforms:
```
./setup.bin LAX_VM /work/jre6/bin/java
```

---

3   Read the introduction. Click Next.

4   Read the License Agreement.

Select the geographic location from where you are installing to display the agreement appropriate to your region. Select "I agree to the terms of the Sybase license for the install location specified" and click Next.

You must agree to the license agreement before you can continue.

5   Choose the installation directory.

To accept the default directory, click Next. To specify a different directory, click Choose or type the directory path in the input field, and click Next. One of these occurs:

• If the installation directory does not exist, the installer prompts:

```
The directory directory_name does not exist. Do
you want to create it?
```

Click Yes.

- If the installation directory contains Sybase products, the installer prompts:

```
Warning: You have chosen to install into an
existing directory. If you proceed with this
installation, any older versions of the products
you choose to install that are detected in this
directory will be replaced.
```

If you continue and the older products were installed with jConnect, the installer overwrites the common files.

6   Choose the installation type.

- Typical (default) – installs the JDBC Driver and Ribo components.

    The components to be installed and the total disk space required appear before the installation executes. These components are described in "Product components" on page 1.

- Custom – allows you to select the jConnect components to install. When you select Custom, the next window displayed is the Choose Install Set window, which allows you to select the components you want to install.

    Note Some components are automatically installed if they are required to run other selected components.

After you have selected the installation type, click Next.

The Pre-Installation Summary window displays the product features or components to be installed and the total disk space required for all the selected features.

7   Review the information in the Pre-Installation Summary window. Click Install.

The installation program unloads all the components from the CD and displays a progress indicator.

8   Quit the installer.

In the Install Complete window, click Done.

Installing in console mode

To run the installer without the graphical user interface (GUI), launch it in console mode.

Note The setup program is located in the *Disk1/InstData* directory on the jConnect CD. Change to this location or add the directory to the installation command.

❖ **Installing in console mode**

1 At the command line, enter:

• Microsoft Windows:

```
.\setupConsole.exe -i console
```

• UNIX platforms:

```
./setup.bin -i console
```

2 The flow of the installation is identical to a GUI installation described in "Installing in GUI mode" on page 5, except that the display is written to a terminal window and responses are entered using the keyboard. Follow the remaining prompts to install the product.

CHAPTER 3 **Postinstallation Tasks**

This chapter describes postinstallation tasks to test your installation, configure jConnect, and install stored procedures.

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Setting JDBC_HOME

JDBC_HOME represents the directory in which you install jConnect.

For Microsoft Windows, if your installation directory is *C:\Sybase*, set JDBC_HOME to:

```
C:\Sybase\jConnect-7_0
```

For UNIX platforms, if your installation directory is */opt/sybase*, set JDBC_HOME to:

```
/opt/sybase/jConnect-7_0
```

Setting CLASSPATH

The CLASSPATH environment variable specifies the location of the jConnect runtime classes and the *jar* files for Java 6 or later. This section describes what you need in your CLASSPATH depending on which versions of JDK and jConnect you are using.

Using jConnect 7.07 with Java 6 or later

To use jConnect 7.07 with Java 6 or later, add these to CLASSPATH:

- Microsoft Windows: *%JDBC_HOME%\classes\jconn4.jar*

- UNIX platforms: *$JDBC_HOME/classes/jconn4.jar*

Running samples or TDS-tunnelling servlet

To run the samples or the TDS-tunnelling servlet, add these to CLASSPATH:

- Microsoft Windows:
  %JDBC_HOME%\classes\jconn4.jar;%JDBC_HOME%\classes

- UNIX platforms:
  $JDBC_HOME/classes/jconn4.jar:$JDBC_HOME/classes

Note Sybase requires that you run Java 6 or later with jConnect 7.07.

In addition, CLASSPATH should include the location of any application classes you have defined.

CLASSPATH restriction using Firefox

If you use Firefox, some restrictions may apply to the way you set CLASSPATH.

The JVM security manager does not allow a version of jConnect installed in your local file system to create a connection to a server, even if the server is your local system. This can create a problem if you use Firefox to run an applet that uses jConnect.

When Firefox loads jConnect to connect to a server, it looks at CLASSPATH to find the jConnect classes. If it finds a path that points to your local jConnect installation, it loads jConnect directly from the local file system—rather than from the server—and tries to create a connection. This generates a security error and the connection fails.

Do not include the local jConnect directory in CLASSPATH if you are using Firefox to run jConnect applets.

Installing stored procedures

For jConnect to function properly, you must install stored procedures and tables on the Adaptive Server or SQL Anywhere database to which your application will be connecting. jConnect provides these scripts to install the required stored procedures and tables:

- *sql_server.sql* – installs stored procedures on Adaptive Server earlier than version 12.0.

- *sql_server12.sql* – installs stored procedures on Adaptive Server 12.0.x.

- *sql_server12.5.sql* – installs stored procedures on Adaptive Server 12.5.x.

- *sql_server15.0.sql* – installs stored procedures on Adaptive Server 15.0.x through 15.5.x.

- *sql_server15.7.sql* – installs stored procedures on Adaptive Server 15.7 or later.

- *sql_server15.7.2.sql* – installs stored procedures on Adaptive Server 15.7 ESD #2 or later.

- *sql_asa.sql* – installs stored procedures on SQL Anywhere 9.x.

- *sql_asa10.sql* – installs stored procedures on SQL Anywhere 10.x.

- *sql_asa11.sql* – installs stored procedures on SQL Anywhere 11.x.

- *sql_asa12.sql* – installs stored procedures on SQL Anywhere 12.x.

❖ **Running stored procedure installation scripts**

1   Verify that your JAVA_HOME, JDBC_HOME, and CLASSPATH environment variables are set.

2   Use the IsqlApp sample application. For more information on IsqlApp, see "Installing stored procedures on an Adaptive Server database".

❖ **Installing stored procedures on an Adaptive Server database**

- Go to the *%JDBC_HOME%\classes* (Microsoft Windows) or *$JDBC_HOME/classes* (UNIX platforms) directory and enter:

  - For Adaptive Server version 15.x:

    - Microsoft Windows:

```
java IsqlApp -U sa -P password -S jdbc:sybase:Tds:[hostname]:[port]
  -I %JDBC_HOME%\sp\sql_server15.0.sql -c go
```

    - UNIX platforms:

```
java IsqlApp -U sa -P password -S jdbc:sybase:Tds:[hostname]:[port]
  -I $JDBC_HOME/sp/sql_server15.0.sql -c go
```

  - For Adaptive Server version 12.5.x:

    - Microsoft Windows:

```
java IsqlApp -U sa -P password -S jdbc:sybase:Tds:[hostname]:[port]
```

```
-I %JDBC_HOME%\sp\sql_server12.5.sql -c go
```

- UNIX platforms:

```
java IsqlApp -U sa -P password -S jdbc:sybase:Tds:[hostname]:[port]
   -I $JDBC_HOME/sp/sql_server12.5.sql -c go
```

❖ **Installing stored procedures on a SQL Anywhere database**

- Go to the *%JDBC_HOME%\classes* (Microsoft Windows) or *$JDBC_HOME/classes* (UNIX platforms) directory and enter:

  - Microsoft Windows

```
java IsqlApp -U dba -P password -S jdbc:sybase:Tds:[hostname]:[port]
   -I %JDBC_HOME%\sp\sql_asa.sql -c go
```

- UNIX platforms

```
java IsqlApp -U dba -P password -S jdbc:sybase:Tds:[hostname]:[port]
   -I $JDBC_HOME/sp/sql_asa.sql -c go
```

Reviewing the installation contents

After completing the jConnect installation, review the contents listed in this section.

Packages

For jConnect version 7.07, the following packages are found inside the *jconn4.jar* file of the release build, and the *jconn4d.jar* file of the debug build:

- com.sybase.jdbc4.jdbc

- com.sybase.jdbc4.tds

- com.sybase.jdbc4.timedio

- com.sybase.jdbc4.utils

- com.sybase.jdbcx

The jConnect driver, com.sybase.jdbc4.jdbc.SybDriver, is located in the com.sybase.jdbc4.jdbc package.

Directories and files

These directories are created in *$SYBASE* (UNIX platforms) or *%SYBASE%* (Microsoft Windows) when you install jConnect:

• *jConnect-7_0* – contains JDBC driver directories and files.

• *jutils-3_0\ribo* – contains Ribo directories and files.

Table 3-1 lists the contents of the *jConnect-7_0* directory.

Table 3-1: Directories and files in the jConnect-7_0 directory

Name	Type	Description
classes	Subdirectory	Contains these jConnect 7.0 components: • *jconn4.jar* file that contains jConnect 7.0 classes • *sample2* subdirectory with jConnect 7.0 class files for sample applets and applications • *gateway2* subdirectory for compiled TDS-tunnelling servlet
devclasses	Subdirectory	Contains the *jconn4d.jar* file that contains the same jConnect 7.0 components as *jconn4.jar*, but debug mode is turned on.
docs	Subdirectory	Contains the *en* subdirectory, which contains the English javadoc documentation.
gateway2	Subdirectory	Contains source code for the TDS-tunnelling servlet.
sample2	Subdirectory	Contains source code for sample Java applications.
sp	Subdirectory	Contains isql scripts that install stored procedures for function escapes and DatabaseMetaData methods on a database server. See "Installing stored procedures" on page 10 for a list of scripts available.
tools	Subdirectory	Contains a perl script (*decode-tli*) that UNIX or Microsoft Windows users can apply to parse an *interfaces* (UNIX platforms) or *sql.ini* (Microsoft Windows) file into a readable format.
index.html	HTML file	Contains links to jConnect documentation and jConnect samples.
netimpct.gif	Graphic file	Contains a jConnect graphic.
version.txt	Text file	Contains the jConnect version string.

Table 3-2 lists the contents of the *jutils-3_0\ribo* directory.

Table 3-2: Directories and files in the jutils-3_0\ribo directory

Name	Type	Description
doc	Subdirectory	Contains the *Ribo Users Guide*.
Ribo	Shell script	An executable file that starts the Ribo application.
Ribo.bat	MS-DOS batch file	A Microsoft Windows batch file that starts the Ribo application.
ribo.jar	JAR file	Contains the Java classes that implement Ribo.

JDBC samples and specifications

You can find JDBC samples and specifications in the *jConnect for JDBC Programmers Reference*.

Testing the jConnect installation

After jConnect is installed, run the Version program to test the installation.

Note The Version program connects to a demonstration database that Sybase has made available on the Internet. You must have Internet access to run the Version program successfully, or explicitly run it with [-U *username*] [-P *password*] [-S *servername*] commands to point it to your database.

❖ **Testing the installation**

1   From the DOS or UNIX prompt, change to JDBC_HOME.

2   Verify that CLASSPATH is set for running the sample programs (see "Setting CLASSPATH" on page 9 for details) and enter the following text:

```
java sample2.SybSample Version
```

A SybSample window appears. At the top of the window, the Running Sybase Sample text box displays the source code for Version as the program runs. The middle text box (Sample Output) should display version information. For example:

```
Using JDBC driver version 7.0
jConnect (TM) for JDBC(TM)/7.0...
```

3   The output could be one of the following:

- If the previous message appears in the Sample Output text box, you have successfully installed jConnect.

- If you get the previous message but the source code for Version does not appear in the Running Sybase Sample text box, and the Status text box at the bottom of the window shows the following message, it means that you have successfully installed jConnect but probably did not enter the command to run the Version program from the *sample2* directory under JDBC_HOME:

```
java.io.FileNotFoundException: Version.java
```

- If the SybSample window does not appear and you get the following error message, check CLASSPATH to verify that it is set correctly:

```
Can't find class sample2.SybSample
```

- If the SybSample window does not come up, and you get one of the following error messages, make sure that your path includes the *bin* subdirectory of your JDK home directory:

```
"Name specified is not recognized as an internal
or external command"
```

```
"Bad command or file name"
```

4 When you have verified that your installation is successful, click Close to exit the SybSample window.

Verifying the jConnect version

Go to the *%JDBC_HOME%\classes* (Microsoft Windows) or *$JDBC_HOME/classes* (UNIX platforms) directory and enter:

```
java -jar jconn4.jar
```

This command prints a version string like the following:

```
jConnect (TM) for JDBC(TM)/7.07 ESD #4 (Build
26792)/P/EBF20144/JDK 1.6.0/jdbcmain/OPT/Thu Jun  7
23:57:39 PDT 2012
```

The version string has important information about jConnect:

- 7.07 is the version number.

- ESD #4 indicates the ESD release number. GA indicates a General Availability release. ESD #n 1-OFF indicates a special release over an earlier ESD release.

- Build 26792 indicates the build version of jConnect. This number increases as subsequent ESDs are released.

- OPT indicates that the build is an optimized build. DEBUG indicates that the build is a debug build.

Sybase recommends that you check the Sybase download Web site periodically for updated versions of jConnect and download the latest version.

Upgrading jConnect

See "Migrating jConnect Applications" in the *jConnect for JDBC Programmers Reference* for instructions.

CHAPTER 4 **Uninstalling jConnect for JDBC**

This chapter contains instructions for uninstalling jConnect from Microsoft Windows or a UNIX platform.

Uninstalling jConnect

The jConnect installer includes an uninstall feature that removes the Sybase components you have installed.

Before uninstalling, consider:

*   If two or more Sybase products install shared components in the same directory, the uninstaller does not remove the shared component until all the Sybase products are uninstalled.

    Warning! Do not uninstall jConnect from a directory that contains other Sybase products that have been installed using an installation program other than the jConnect installer. By doing so, you may remove the components shared by Sybase products and affect their operation.

*   The uninstall feature removes only those files that were loaded from the installer. Some Sybase files, such as log and configuration files, are left intact for administrative purposes. If all products are uninstalled from the directory and you do not need the remaining configuration files, you can manually delete the directory.

Uninstallation procedure

You can uninstall jConnect in GUI or console mode. Before uninstalling, shut down all processes and applications that use the software or components that are going to be uninstalled.

Warning! Use the uninstall script with caution. Running it deletes the *jConnect-7_0* folder.

❖ **Uninstalling in GUI mode**

1   Start the uninstall script.

• Microsoft Windows:

```
%SYBASE%\sybuninstall\comp\jConnect-7_0\uninstall.exe
```

• UNIX platforms:

```
$SYBASE/sybuninstall/comp/jConnect-7_0/uninstall
```

2   Read the introduction. Click Next.

3   Choose the uninstallation type.

• Complete Uninstall – completely removes all components of jConnect. The files and folders created after the installation are not affected.

• Uninstall Specific Features – allows you to uninstall specific components of jConnect. If you select this option, the Choose Product Features window appears and you can select the components to uninstall.

4   Click Next to uninstall jConnect.

Warning! When you click Next and there are no jConnect-dependent products installed, the uninstall program proceeds to uninstall jConnect. You will not be able to cancel the operation.

One of these occurs:

• If there are Sybase products that are dependent on jConnect, the installer prompts:

Sybase recommends that you cancel uninstalling jConnect. Otherwise, the jConnect-dependent products will not function.

- • If there are no jConnect-dependent products installed, the uninstall script removes the jConnect components and displays a progress indicator.

5   Click Done to quit the uninstall program.

❖ **Uninstalling in console mode**

1   Go to the *%SYBASE%* (Microsoft Windows) or *$SYBASE* (UNIX platforms) directory, and at the command prompt, enter one of the following commands.

Microsoft Windows:

```
%SYBASE%\sybuninstall\comp\jConnect-7_0\uninstall.exe -i console
```

UNIX platforms:

```
$SYBASE/sybuninstall/comp/jConnect-7_0/uninstall -i console
```

The uninstall program starts.

2   The flow of the uninstall program is identical to a regular GUI uninstall, except that the display is written to a terminal window and responses are entered using the keyboard. Follow the remaining prompts to uninstall the product.

Using jConnect Documentation

Your jConnect installation includes Ribo documentation and javadoc information about jConnect packages, classes, and methods.

Programmers reference

The *jConnect for JDBC Programmers Reference* provides information and examples specific to the jConnect driver, as well as solutions and workaround for problems you may encounter when using jConnect. You can access *jConnect for JDBC Programmers Reference* from the Sybase Product Documentation Web site at http://www.sybase.com/support/manuals/.

Java documentation of jConnect extensions to JDBC

JDK contains a *javadoc* script for extracting comments from source-code files and putting them in corresponding HTML files. This script is used to extract documentation of jConnect packages, classes, and methods from jConnect source files. When you install jConnect, the javadoc information is installed in these directories:

- Microsoft Windows:

  %JDBC_HOME%\docs\en\javadocs

- UNIX platforms:

> *$JDBC_HOME/docs/en/javadocs*

The javadoc information is available only in HTML format.

jConnect documentation access using *index.html* files

Using a Web browser, you can access both the *jConnect for JDBC Programmers Reference* and the jConnect javadoc information from an *index.html* file:

- *$JDBC_HOME/index.html* (UNIX platforms) and *%JDBC_HOME%\index.html* (Microsoft Windows) contain links for accessing the jConnect Java documentation and for running sample JDBC applets.

- *$JDBC_HOME/docs/index.html* (UNIX platforms) and *%JDBC_HOME%\docs\index.html* (Microsoft Windows) contain links to the jConnect documentation.

Ribo documentation

Ribo allows JDBC developers to capture and view communication between jConnect and a database. Ribo can also decode TDS messages, which Sybase databases use to communicate with client applications, helping developers to diagnose problems.

Note Because Ribo uses some jConnect classes, Sybase strongly recommends that you use Java 6 or later when you run Ribo.

For more information on Ribo, refer to the *Ribo Users Guide*, which you can find in *%SYBASE%\jutils-3_0\ribo* (Microsoft Windows) or *$SYBASE/jutils-3_0/ribo* (UNIX platforms).

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