

SYBASE®

Installation Guide

**Software Developer's Kit and Open
Server™**

12.5.1

[UNIX]

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About This Book

Audience

This book is for System Administrators or the persons responsible for installing Sybase® software.

How to use this book

This guide contains the following chapters:

- Chapter 1, “Before You Begin,” describes pre-installation information and tasks.
- Chapter 2, “Installing SDK and Open Server” describes how to install Software Developer’s Kit (SDK) and Open Server™.
- Chapter 3, “Post-installation Tasks,” provides information about the tasks you must perform after installing the component software for SDK and Open Server. It also provides troubleshooting information.

Related documents

You can find configuration and other information in these related documents:

- Open Client™ and Open Server *Release Bulletin* Version 12.5.1 for your platform contains important last-minute information about Open Client and Open Server products.
- Software Developer’s Kit *Release Bulletin* Version 12.5.1 for your platform contains important last-minute information about SDK.
- jConnect™ for JDBC™ *Release Bulletin* Version 12.5.1 contains important last-minute information about jConnect for JDBC.
- The Open Client and Open Server *Configuration Guide* for your platform contains information about configuring your system to run Open Client and Open Server products.
- The Open Server 15.0 and SDK 12.5.1 *New Features* contains new features available for Open Server 12.5.1 and the Software Developer’s Kit 12.5.1.
- The Open Client Client-Library™ *Reference Manual* contains reference information for Open Client Client-Library.
- The Open Client Client-Library *Programmer’s Guide* contains information on how to design and implement Client-Library programs.

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- The Open Server Server-Library *Reference Manual* contains reference information for Open Server Server-Library.
 - The Open Client and Open Server Common Libraries *Reference Manual* contains reference information for CS-Library, a collection of utility routines that are useful in both Client-Library and Server-Library applications.
 - The Open Client and Open Server *Programmer's Supplement* contains platform-specific information for programmers using Open Client and Open Server products. This document includes information about:
 - Compiling and linking an application
 - Sample programs that are included with Open Client and Open Server products
 - Routines that have platform-specific behaviors
 - The jConnect for JDBC *Installation Guide* contains installation information for jConnect for JDBC.

Other sources of information

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

- The Getting Started CD contains release bulletins and installation guides in PDF format, and may also contain other documents or updated information not included on the SyBooks CD. 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 SyBooks CD contains product manuals and is included with your software. The Eclipse-based SyBooks browser allows you to access the manuals in an easy-to-use, HTML-based format.

Some documentation may be provided in PDF format, which you can access through the PDF directory on the SyBooks CD. To read or print the PDF files, you need Adobe Acrobat Reader.

Refer to the *SyBooks Installation Guide* on the Getting Started CD, or the *README.txt* file on the SyBooks CD for instructions on installing and starting SyBooks.

- The Sybase Product Manuals Web site is an online version of the SyBooks CD that you can access using a standard Web browser. In addition to product manuals, you will find links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, newsgroups, and the Sybase Developer Network.

To access the Sybase Product Manuals Web site, go to Product Manuals 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 Certification Report.
- 3 In the Certification Report filter select a product, platform, and timeframe and then click Go.
- 4 Click a 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

Table 1: Syntax conventions

Key	Definition
command	Command names, command option names, utility names, utility flags, and other keywords are in sans serif font.
<i>variable</i>	Variables, or words that stand for values that you fill in, are in <i>italics</i> .
{ }	Curly braces indicate that you choose at least one of the enclosed options. Do not include braces in your option.
[]	Brackets mean choosing one or more of the enclosed items is optional. Do not include brackets in your option.
()	Parentheses are to be typed as part of the command.
	The vertical bar means you can select only one of the options shown.
,	The comma means you can choose as many of the options shown as you like, separating your choices with commas to be typed as part of the command.

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 manuals 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 complete before you install Software Developer's Kit (SDK) and Open Server. It covers the following topics:

Topic	Page
Supported platforms	1
Summaries of SDK and Open Server	2
System requirements for SDK and Open Server	4
Pre-installation instructions	7

Supported platforms

SDK and Open Server version 12.5.1 support the following platforms:

- HP Tru64 UNIX version 5.0a or later
- HP 9000/800 version 11.11 or later
- HP-UX Itanium 11.23 or later
- IBM RS/6000 AIX version 4.3.3 and 5.1
- Sun Solaris version 2.8 or later (SPARC)
- Sun Solaris (Intel) 32-bit and 64-bit
- Linux
- Linux AMD 64-bit
- Linux Itanium
- Linux on Power
- SGI IRIX version 6.5.18 or later

For a complete list of the operating systems, and supported protocols, see Table 1-3 on page 5.

Summaries of SDK and Open Server

The following sections describe the components of SDK and the Open Server products.

Summary of SDK components

SDK 12.5.1 is a set of libraries and utilities for developing client applications and includes the following components:

- Open Client/C version 12.5.1 – an API, a set of libraries used to develop and deploy C-language applications that access Adaptive Server® Enterprise data. Included on the installation medium are:
 - Drivers for integrating Client-Library and Open Server applications with DCE directory and security services
 - Sample programs for Client-Library and DB-Library™
- Open Client Embedded SQL™/C version 12.5.1– the precompiler that allows you to embed Transact-SQL® statements into C-language applications.
- Open Client Embedded SQL/COBOL version 12.5.1– the precompiler that allows you to embed Transact-SQL statements into COBOL-language applications.
- Language modules – provide system messages and datetime formats to help you localize your applications. Default installation includes:
 - U.S. English language module
 - Unicode UTF-8 encoding (utf8)
 - IBM code page 850 (cp850)
 - IBM code page 437 (cp437)
 - Apple Macintosh Roman (mac)
 - ISO 8859-1 (iso_1)
 - Hewlett-Packard Roman 8 (roman8) character sets

You can purchase additional language modules through Sybase.

- jConnect for JDBC 5.5 – the Java implementation of the Java JDBC standard, which provides Java developers native database access in multitier and heterogeneous environments. For jConnect hardware and software requirements and installation instructions, refer to the *Installation Guide* for jConnect for JDBC.
- Java Runtime Environment (JRE) 1.3.1 – the runtime environment required by jConnect for JDBC.

SDK libraries and utilities

Table 1-1 lists libraries and utilities that are included with SDK.

Table 1-1: Libraries and utilities for UNIX platforms

	Open Client/C	Embedded SQL/C	Embedded SQL/COBOL
<i>Libraries</i>			
Client-Library	X	X	X
CS-Library	X	X	X
DB-Library™	X		
Bulk-Library	X		
<i>Utilities</i>			
bcp, defncopy, dsedit, dscp, isql	X		
cpre		X	
cobpre			X

Summary of Open Server components

Open Server allows you to create custom servers to respond to client requests and includes the following libraries, utilities, and drivers:

- Open Server version 12.5.1 – a set of APIs and supporting tools for creating custom servers to respond to client requests submitted through Open Client routines. Included on the CD are:
 - Drivers for integrating Client-Library and Open Server applications with DCE directory and security services
 - Sample programs for Client-Library
- Language modules – provide system messages and datetime formats to help you localize your applications. Default installation includes:

- U.S. English language module
 - Unicode UTF-8 encoding (utf8)
 - IBM code page 850 (cp850)
 - IBM code page 437 (cp437)
 - Apple Macintosh Roman (mac)
 - ISO 8859-1 (iso_1)
 - Hewlett-Packard Roman 8 (roman8) character sets
- You can purchase additional language modules through Sybase.

Open Server libraries and utilities

Table 1-2 lists libraries and utilities included with Open Server.

Table 1-2: Libraries and utilities for UNIX platforms

	Open Client	Open Server
<i>Libraries</i>		
Client-Library	X	X
CS-Library	X	X
DB-Library	X	
Bulk-Library	X	X
<i>Utilities</i>		
bcp, isql, dscp, dsedit, dfncopy	X	X

Note Utility names may differ depending on your platform. For more information, see the release bulletin for your platform.

System requirements for SDK and Open Server

This section contains the following information:

- Hardware and software requirements
- Disk space requirements

Hardware and software requirements

Table 1-3 shows the system hardware and software requirements for SDK and Open Server.

Table 1-3: System requirements for SDK and Open Server 12.5.1

Hardware	Operating system	Supported protocols
HPTru64 UNIX (64-bit)	Digital UNIX 5.0.A	TCP
HP9000/700, or 64-bit HP9000 D,K,V Series	HP-UX 11.11	TCP
Note The PA8000 chip is required.		
HP 9000/800 (32-bit)	HP-UX 11.11	TCP
HP-UX Itanium (32-bit and 64-bit)	HP-UX 11.23	TCP
IBM RISC System/6000, Model S70 (32-bit)	AIX 4.3.3	TCP
IBM RISC System 6000, Model S70 (64-bit)	AIX 5.1	TCP
Linux Intel (32-bit)	<ul style="list-style-type: none"> • Red Hat Linux Advanced Server release 2.1AS • Red Hat Enterprise Linux AS release 3 	TCP
Linux AMD (64-bit)	Red Hat Enterprise Linux WS release 3	TCP
Linux Itanium (64-bit)	<ul style="list-style-type: none"> • Red Hat Linux Advanced Server release 2.1AS • Red Hat Enterprise Linux AS release 3 	TCP
Linux on Power (32-bit and 64-bit)	Red Hat Enterprise Linux AS release 3	TCP
Sun Solaris (SPARC) (32-bit and 64-bit)	Solaris 2.8	TCP
SGI MIPS IV (32-bit and 64-bit)	IRIX 6.5	TCP
Sun Solaris x86	Solaris 9	TCP
Sun Solaris x64	Solaris 10	TCP
Windows x86	Windows 2000	TCP

Note For the required patches that must be installed before installation, be sure to check the release bulletin for your platform. For the latest patches available, contact technical support for the appropriate platform.

Disk space requirements

The required installation disk space for each platform will vary from 250MB to 450MB, and depends on the following:

- Product installed – SDK or Open Server
- Architecture – 32-bit or 64-bit
- Platform – IBM AIX, HP Tru64 UNIX, HP 9000/800 HP-UX, HP Itanium, Linux AMD, Linux/Intel, Linux Itanium, Linux on POWER, Silicon Graphics (SGI), Sun Solaris x86, Sun Solaris x64, Sun Solaris SPARC, or Windows x86
- Type of install – Typical, Full, or Custom

Disk space required for install

To ensure that you have sufficient disk space for the installation, a Product Summary window displays every component that is to be installed and the total disk space required for all the selected components. If the target directory does not have sufficient disk space, the installer displays the amount of disk space required and the space available. If you continue without sufficient disk space, an error occurs that stops the installation.

jConnect requirements

jConnect can be installed as a separate product. It requires approximately 16MB for jConnect 5.5, and 10MB for the jConnect default options.

Pre-installation instructions

The following installation tasks describe how to install the SDK or Open Server products on your system. These instructions do not apply to the SDK or Open Server products that were provided with the Adaptive Server Enterprise Suite CD.

Note Each Adaptive Server Enterprise purchase includes the SDK product, installation instructions for which you can find in the Adaptive Server Enterprise *Installation Guide*.

Pre-installation tasks for SDK and Open Server

Before you install SDK or Open Server, complete the following pre-installation tasks:

❖ Pre-installation tasks

- 1 Read the SDK *Release Bulletin* version 12.5.1 or the Open Client and Open Server *Release Bulletin* version 12.5.1 for your platform for the latest information on the products that you are installing.

Your Sybase product shipment includes release bulletins; they are also available from the Sybase Web site at <http://www.sybase.com/support/techdocs>.

- 2 Create a “sybase” account on your system to perform all installation tasks. The operating System Administrator usually sets up this account, as this requires “administrator” privileges.
- 3 Log in to the machine as the “sybase” user.

You should maintain consistent ownership and privileges for all files and directories. A single user—the Sybase System Administrator with read, write, and execute permissions—should perform all unload, installation, upgrade, and setup tasks.

Warning! The installer does not check for permissions before installing the product. If you do not have permission, the installer continues to log exceptions in the log file.

The “sybase” user must have permission privileges from the top (or root) of the disk partition or operating system directory down to the specific physical device or operating system file.

For *SGI IRIX*, verify that */usr/bsd* is in the path.

- 4 Identify or create a directory location for the Sybase installation directory, where you are going to unload the server products.
- 5 Verify that the location for the Sybase installation has sufficient space to unload the software. Space requirements for Open Client and Open Server are listed in “Disk space requirements” on page 6.

Note When using a Chinese, Japanese, or Korean locale, Sybase recommends that you set the `JAVA_FONTS` to the directory where the locale’s fonts are installed. This ensures that InstallShield uses the correct font.

The environment is set by the installer in the *SYBASE.csh* or *SYBASE.sh* scripts file located in `$SYBASE`, which you must source prior to using the product.

When you have reviewed and verified requirements and have completed administrative tasks, you are ready to install SDK and Open Server.

Installing SDK and Open Server

This chapter describes how to install SDK and Open Server using InstallShield and the command line. It covers the following topics:

Topic	Page
Using InstallShield for installation	9
Installing SDK or Open Server	12
Uninstalling SDK or Open Server	19
Command line options	19

Using InstallShield for installation

This section describes how to install SDK or Open Server components using InstallShield. If you are installing using the command line, skip to “Installing SDK or Open Server” on page 12, where both InstallShield and command line instructions are provided. All procedures assume that:

- The target computer meets the requirements outlined in “System requirements for SDK and Open Server” on page 4.
- You have completed the list of tasks for SDK and Open Server in “Pre-installation instructions” on page 7.

InstallShield is Java-based and uses XML input. It unloads and installs all Sybase components using a consistent installation interface across all platforms. InstallShield creates the target directory (if necessary) and unloads all the selected components into that directory.

You have three options for installing Sybase components from the distribution media using InstallShield:

- GUI (graphical user interface) mode, which allows you to install the components using the InstallShield interface
- Console mode, which allows you to install components in a command line environment

- Response file, which lets you record or create a response file. Using a response file, you can install SDK or Open Server using one of two modes:
 - Silent mode, which installs the product by taking all the responses from the options response file without any interaction required on your part. This is convenient if you are performing identical installations on multiple machines.
 - Console mode, which uses all the responses from the options response file as defaults. The defaults can be changed by the user during the install. This can be convenient if several sites are installing SDK or Open Server in a non-graphical user interface environment, and must conform to a standard installation with minor changes.

Each of these options is described in “Installing SDK or Open Server” on page 12.

Note If you encounter problems during installation, check the installation log file to see a record of the installation process. The file is located in `$$SYBASE/log.txt`, where `$$SYBASE` is the SDK or Open Server installation directory.

Installing from a remote machine

To run InstallShield on a remote machine, that machine must have permission to display the InstallShield windows on the local machine.

- 1 To grant this permission, enter the following command at the UNIX prompt of your *local* machine:

```
xhost +remote_machine
```

where *remote_machine* is the window on which you are running InstallShield.

- 2 From the remote machine where you are running InstallShield, verify that the `DISPLAY` environment variable is set to the local machine where you are viewing the InstallShield windows and output. If InstallShield cannot find your `DISPLAY` variable, you cannot run the graphical user interface.

For C shell:

```
setenv DISPLAY host_name:0.0
```

For Bourne shell:

```
DISPLAY=host_name:0.0; export DISPLAY
```

where *host_name* is the name of the local (display) machine.

Note For remote installations, you must be able to rsh into the machine on which you are installing the software. If you cannot do this, add the install host to your *.rhosts* file.

Installing using a different font

When installing in GUI mode, you can specify the installer display font by using the *-font* command line option or the *font.ini* file.

Note If you use both the *-font* command line option and the *font.ini* file, the font specified using the *-font* command line option takes precedence.

Using the *-font* command line option

You can modify the default installer display font when you start the InstallShield. For example:

```
./setup -is:javaconsole -font "FZFangSong"
```

The example uses the Chinese font FZFangSong and requires that the LANG environment variable is set to a Chinese locale such as zh_CN.

To ensure that characters are displayed correctly, the JAVA_FONTS environment variable must point to the location of the font files. Otherwise, InstallShield terminates with this message:

```
Invalid command line option: unable to find fontname
font.
Make sure the font name is correct and JAVA_FONTS
environment variable is set.
```

Using the *font.ini* file

Another way to specify the InstallShield display font is to create a *font.ini* file in the installer image root directory. The *font.ini* file specifies the font name and the font location. For example:

```
#Set to Kochi Mincho font
```

```
font=Kochi Mincho
path=/usr/share/fonts/ja/TrueType
```

The example uses the Japanese font Kochi Mincho and requires that the LANG environment variable is set to a Japanese locale such as ja_JP. If the font or the font path specified in the *font.ini* file is incorrect, the InstallShield terminates with this message:

```
Error: Unable to find fontname font.
Make sure font name and path are correct in font.ini
file.
```

Installing SDK or Open Server

Although you can verify product installation at the end of this process, you need to perform additional configuration procedures before you can use the products. See “Configuring the components” on page 26 for more information.

Mount the CD

Insert the SDK or Open Server CD in the CD drive, and if necessary, mount the CD. If you want to install both products, repeat this procedure using the appropriate CD, following the installation of the first product.

Note The location of the mount command is site-specific and may differ from what is shown in these instructions. If you cannot mount the CD drive using the path shown, consult your operating system documentation or contact your operating system administrator.

For *HP Tru64 UNIX*:

```
mount -t cdfs -r device_name /cdrom
```

where *device_name* is the CD drive device name, and */cdrom* is the name of the directory where the CD is to be mounted.

For *HP-UX*:

Log out, log in as “root,” mount the CD using the following command:

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

Then log out and log in again as “sybase.”

For *RS/6000 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, and */cdrom* is the name of the directory where the CD is to be mounted. On Sun Solaris, the CD drive device name is */cdrom/cdromx*, where *x* is the number of the CD device.

For *Sun 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.

For *SGI IRIX* and *Linux*:

The operating system automatically mounts the CD.

Installing in GUI mode

The following steps are required to perform the install in GUI mode.

❖ Installing in GUI mode

- 1 Mount the CD and “cd” into the directory as described in the previous section, “Mount the CD.”
- 2 Verify that the drive on which you install the products has sufficient disk space for the products being installed, and at least 10MB extra disk space for the installation program. The program frees this space after the installation is complete.

If InstallShield does not have sufficient temporary space to run, it will prompt you to set the `-is:tempdir` parameter, which should be set to the absolute path of a directory that has sufficient space, for example:

```
./setup -is:tempdir /tmp
```

Note The SGI and HP Tru64 UNIX platforms require 80MB of temporary space.

The default temporary directory is */tmp*, used by SGI, HP Tru64 UNIX, and Linux. The remaining UNIX platforms use the C runtime library constant *P_tmpdir*. Sun Solaris and HP use */var/tmp*, and the remaining UNIX platforms use */tmp*.

- 3 At the UNIX prompt, start InstallShield:

For *HPTru64 UNIX, RS/6000, Linux, and Sun Solaris*:

```
cd /device_name/cdrom
pathname/setup
```

For *HP-UX*:

```
cd /cdrom
pathname/setup
```

where *cdrom* (or *CDROM*) is the directory you specified when mounting the CD drive, and *pathname/setup* is the full path name of your Sybase installation directory. This unloads the components in GUI mode.

For *SGI IRIX*:

```
cd /CDROM
./setup
```

The Welcome window appears.

- 4 Click Next to proceed with the installation.
- 5 Read the License and Copyright Agreement. Using the drop-down list at the top of the window, select the geographic location where you are installing to display the agreement appropriate to your region. Then, select “I agree” and click Next.

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

Note In certain cases when SDK or Open Server 12.5.1 are installed with other Sybase products, you may see warnings about overwriting newer versions of **.xml* files. In these cases, simply instruct the installer to overwrite these files and proceed with the installation.

- 6 In the install directory window, click Next to accept the default directory for the installation, or enter a different directory where you want to install the products. One of the following occurs:
 - If the installation directory you chose does not exist, InstallShield prompts:

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

Click Yes.

- If the installation directory exists, the software prompts:

You have chosen to install into an existing directory. Any older versions of the products you choose to install that are detected in this directory will be replaced. DO NOT install into a pre 12.5.1 ASE release area as this will break ASE. Do you want to continue with installation into this directory?

If you click Yes and the older products were not installed with InstallShield (for example, if you installed a pre-12.5.1 version of Adaptive Server), InstallShield overwrites the common components.

If you are prompted to overwrite any files, click Yes *only* if the version of the new files is later than the one it is attempting to overwrite.

- 7 Select one of the three types of installation:

- Typical, which installs the SDK or Open Server components considered to be useful for most customers. The components that will be installed and the total disk space required will be displayed prior to installation. These components were described for SDK in “Summary of SDK components” on page 2.
- Full, which installs every SDK or Open Server component from the CD. The components that will be installed and the total disk space required will be displayed prior to installation.
- Custom, which allows you to select the components for SDK or Open Server to install. When you select Custom install, the next window displayed is the Component Selection window, which allows you to select the components you want to install.

Note Be aware that certain components are automatically installed if they are required to run other selected components.

After you have selected the desired components, click Next.

- 8 Before proceeding to the next window, InstallShield verifies the selections, and checks for dependencies and available disk space. The Product Summary window displays every component that is to be installed and the total disk space required for all the selected components.

Note If the target directory does not have enough free space, the space-required and the space-available information is displayed. If you click Next without sufficient hard disk space, an error occurs that stops the installation.

- 9 Verify that you have selected the correct type of installation, and that you have enough disk space to complete the process. Click Next to continue the installation.
- 10 InstallShield unloads all the components from the CD and displays a progress indicator. When the installation is complete, a message is displayed indicating that the InstallShield Wizard has completed installing your product. Click Next.

Note On the IBM AIX 4.3.3 platform, error messages appear during the installation, but the install completes successfully. The error messages are java-specific, are not an indication of an error in the install, and can be ignored.

- 11 A window displays a message indicating the installation was successful and advising you to check for software updates on MySybase. Click Finish to clear the window.

Installing in console mode

If you want to run the installer without the graphical user interface (GUI), you can launch InstallShield in console mode. In cases where InstallShield launches automatically, click Cancel to cancel the GUI install and then launch the setup program from a terminal or console.

❖ Installing in console mode

The steps for installing components in console mode are the same as those described in “Installing SDK or Open Server” on page 12, except that you execute InstallShield from the command line using the `setup -console` command, and you enter text to select the installation options, as follows:

- 1 At the command line, enter the following:

```
./setup -console
```

InstallShield starts and displays the following welcome message:

```
-----
Welcome to the InstallShield Wizard for Sybase
Software Developer's Kit or Open Server (depending
on which product you are installing), Version 12.5.1

The InstallShield Wizard will install either
Software Developer's Kit or Open Server Software,
Version 12.5.1 on your computer.

To continue, choose Next.

Press 1 for Next, 3 to Cancel or 4 to Redisplay [1]
-----
```

- 2 The flow of the installation is identical to a regular GUI installation, except that the display is written to a terminal and responses are entered using the keyboard. Follow the remaining prompts to install either SDK or Open Server software.

Installing using a response file

A silent installation (sometimes referred to as an unattended install) is done by running InstallShield and providing a response file that contains answers to all of InstallShield's questions.

Creating a response file

There are two methods of generating a response file for InstallShield:

- *Record* mode: In this mode, InstallShield performs an installation of the product and records all of your responses and selections in the specified response file. You must complete the installation to generate a response file. To create a response file, enter:

```
./setup -options-record <responseFileName>
```

where *responseFileName* is a name you choose for the response file.

The following are the results:

- An installation of Open Server or SDK on your computer

- A response file that contains all of your responses from the installation

If you then use this response file for a silent installation, the resulting installation is identical to the one from which the response file was created—the same installation location, same feature selection, and all the same remaining information. The response file is a text file that you can edit to change any responses before using it in any subsequent installations.

- *Template* mode: In this mode, InstallShield creates a response file containing commented-out values for all required responses and selections. However, you do not need to install the product, and you can cancel the installation after the response file has been created. To create this template file, enter:

```
./setup -console -options-template  
<responseFileName>
```

where *responseFileName* is the absolute file name you chose for the response file, for example:

```
/home/sybase/SDK/OptionsTemplate.txt
```

Note The directory */home/sybase/SDK* must already exist.

If run in console mode, as in the previous example, InstallShield provides a message indicating that the template creation was successful. If run in GUI mode, no message is provided. However, you can click Cancel immediately, and a response file is created.

If this response file is then used for a silent install, the default values for all responses are used. Edit the template with the values you want to use during installation.

Interactive installation using a response file An interactive installation using a response file allows you to accept the default values obtained from the response file that you have set up, or to change any of those values for the specific installation. This is useful when you want multiple similar installations but with some minor differences that you want to change at installation time.

At the command line, execute the following:

```
./setup -options <responseFileName>
```

Installing in silent mode A silent mode installation, sometimes referred to

as an unattended installation, allows you to install the product with all responses being taken from the response file that you have set up. There is no user interaction. This is useful when you want multiple identical installations or you want to automate the installation process.

At the command line, execute the following command for all platforms *except* AIX 4.3.3:

```
./setup -silent -options <responseFileName>  
-W SybaseLicense.agreeToLicense=true
```

For AIX 4.3.3:

```
./setup -silent -options <responseFileName>  
-W SybaseLicense.agree=true
```

where *responseFileName* is the name of the file containing the installation options you chose. The *-W* option specifies that you agree with the Sybase License Agreement text.

Except for the absence of the GUI screens, all actions of InstallShield are the same, and the result of an installation in silent mode is exactly the same as one done in GUI mode with the same responses.

Uninstalling SDK or Open Server

InstallShield includes an uninstall feature that removes the Sybase components you have installed.

Special uninstall considerations

Following are issues that you must consider before performing an uninstall.

Two or more products sharing components

Sybase does not support the uninstall feature of two or more Sybase products that share components that have been installed in the same directory (with the exception of the SDK and Open Server products), such as, ASE Suite and SDK, or ASE Suite and Open Server. This is because these products have many files in common, and InstallShield cannot completely resolve the interdependencies.

Removing files installed from the CD

The uninstall removes only those files that were loaded from the install CD. Some Sybase files, such as *log* and *configuration* files, are left intact for administrative purposes. If Open Server and SDK products are installed into the same directory and then both uninstalled, some directories may remain if they were created by the installation of one product and uninstalled by the other. A subsequent uninstall process is required to remove them, as described in the following paragraph.

Uninstalling products installed in the same directory

When both Open Server and SDK are installed in the same directory and you uninstall one of the products, the files used by that product are also uninstalled, leaving the remaining product functioning correctly. However, the product uninstaller remains active, because uninstallation cannot complete until the other product is also removed. If you decide to remove both products, you must make a second attempt to uninstall the first product using the following command (for example, for Open Server):

```
$SYBASE$/OpenServer/uninstall -is:javahome  
    <path to CDROM>/JVM
```

A typical sequence would be:

- 1 Install SDK.
- 2 Install Open Server.
- 3 Uninstall Open Server.
- 4 Uninstall SDK.
- 5 Uninstall Open Server using the command shown previously. (In this typical example, the last entry must be Open Server.)

Setting the HP Tru64 UNIX uninstall environment variable

On HP Tru64 UNIX, before running the uninstall, you must set the BIN_SH environment variable to *xpg4* or uninstall will fail. To set the BIN_SH environment variable to *xpg4*:

For *csht*:

```
setenv BIN_SH xpg4
```

For *sh*:

```
BIN_SH=xpg4; export BIN_SH
```

After setting the environment variable, call:

```
$SYBASE/uninstall/SDK/uninstall
```

If you do not set the BIN_SH environment variable, the command fails with the following error:

```
$SYBASE/uninstall/SDK/uninstall: O^D@^A: is not an  
identifier
```

Uninstall procedures

Note If the uninstall procedure is not created, refer to the section, “Missing uninstall components” on page 22.

You can invoke the uninstall procedure using either GUI or the console method. Sybase recommends that you use the GUI method.

Before uninstalling Sybase software, shut down all processes and applications that use the software or components that are going to be uninstalled.

❖ Uninstalling in GUI mode

- 1 From the command line, enter the following:

For *Open Server*:

```
$SYBASE/uninstall/OpenServer/uninstall
```

For *SDK*:

```
$SYBASE/uninstall/SDK/uninstall
```

The InstallShield uninstaller Wizard Welcome Panel is displayed.

- 2 Click Next to proceed to the Feature Selection Panel.
- 3 Select the product or feature you want to remove.

You will not be able to select certain features because they are required by other features. For example, the Open Client feature requires the English Language module, so you cannot select this module unless Open Client is also selected.

- 4 Click Next to move to the Uninstall Summary panel. If you are satisfied with your selections, click Next for InstallShield to remove the files associated with the products you selected.

Note If you are prompted to remove shared files, Sybase recommends that you do *not* remove them.

❖ Uninstalling in console mode

- 1 To uninstall the products in console mode, go to the `$SYBASE` directory, and at the command prompt, enter the following:

For *SDK*:

```
$SYBASE/SDK/uninstall -console
```

For *Open Server*:

```
$SYBASE/OpenServer/uninstall -console
```

The uninstall program starts.

- 2 Choose the SDK or Open Server software product you want to uninstall and click OK.

The SDK or Open Server software product you chose is uninstalled.

Missing uninstall components

In certain circumstances, some of the components required to perform an uninstall, as documented previously, may be missing. The required components for uninstall are:

For *SDK*:

```
$SYBASE/uninstall/SDK/uninstall
```

For *Open Server*:

```
$SYBASE/uninstall/OpenServer/uninstall
```

For *both Open Server and SDK*, use the Java Runtime Environment:

```
$SYBASE/uninstall/JRE-1_4
```

If any of these components are missing, you can perform the uninstall using Java directly. To do so, use Java 1.2 or later, be sure that you have a Java Runtime in your path, or specify the full path to the Java executable. Then, execute the following command:

For *SDK*:

```
java -cp $SYBASE/uninstall/SDK/uninstall.jar run
```

For *Open Server*:

```
java -cp $SYBASE/uninstall/OpenServer/uninstall.jar run
```


Command line options

The following table lists alphabetically the command line options that you can use when running an installer or uninstaller.

Table 2-1: Command line options

Option	Purpose
-console	Specifies to use the console interface mode, in which messages during installation are displayed on the Java console and the Wizard is run in console mode.
-font <i>font_name</i>	Specifies the installer display character. This option can be used only when installing in GUI mode.
-is:javaconsole	Displays the Java console during installation. It has no effect on the mode in which the Installer runs (see -console).
-is:javahome <i>JavaHomeDirectory</i>	Indicates that the installer or uninstaller uses the specified JVM rather than the default. Only a version 1.4.x JVM may be specified. If used when installing the product, no uninstaller is created.
-is:tempdir <i>directory</i>	Sets the path to the temporary directory (<i>directory</i>) to which the installer should write its temporary files. If the specified directory does not exist or is not a directory, the installer will use the system <i>temp</i> directory instead, and no error message is provided.
-log <i>!filename</i>	Initializes logging for the installer, where <i>!filename</i> is the name of a file to save the log information. If you specify “!” without a file name, the default log file name is used.
-options-template <i>responseFileName</i>	Automatically generates a response/options “template” type file (< <i>responseFileName</i> >) that can be used to provide user input during installation.
-option-record <i>responseFileName</i>	Automatically generates a response/options “record” type file < <i>responseFileName</i> > after the completion of the installation or uninstallation.
-options <i>responseFileName</i>	Specifies that a response/options file (<i>responseFileName</i>) be used to execute the installation/uninstallation, which contains command line options, one command per line, that set specified properties for the installation. A response/options file is usually used when a silent installation is run (see the next option).

Option	Purpose
-silent	Specifies to install or uninstall the product in silent mode, where the installation/uninstallation is performed with no user interaction and the install is "silent."
-W <i>beanID.property</i> <i>name.subproperty</i> <i>name=value</i>	Specifies properties to the installer. This option must be used to agree to the Sybase License conditions during a silent install. Refer to "Installing in silent mode" on page 18.

Note When using the command line option, specify the full path, including the file name for the *responseFileName*.

Post-installation Tasks

This chapter describes the tasks you must perform after installation is complete, including configuration of SDK and Open Server. It covers the following topics:

Topic	Page
Setting environment variables for SDK and Open Server	25
Configuring the components	26

Note For post-installation tasks for jConnect, see the *Installation Guide* for jConnect for JDBC.

Setting environment variables for SDK and Open Server

InstallShield automatically sets most of the environment variables it needs, such as PATH, as part of the unloading process. InstallShield also unloads *.sh* and *.csh* files, which contain the remaining environment variables that you must set manually before you can configure and run Open Server successfully.

C shell and Bourne shell files

InstallShield unloads Bourne shell and C shell files containing environment variables in:

- *\$SYBASE/SYBASE.sh*, *\$SYBASE/SYBASE.csh*

To set the environment variables, do one of the following:

- Modify the component's RUN environment permanently using the environment variable values from the shell files, or
- Before invoking the component, update the component's RUN environment immediately, as described next.

❖ **Updating the RUN environment immediately**

- In a Bourne shell, enter the following:

```
cd $SYBASE
. SYBASE.sh
```

- In a C shell, enter the following:

```
cd $SYBASE
source SYBASE.csh
```

Configuring the components

You have successfully unloaded Open Server components onto your system. Configure each component following the instructions in the Open Client and Open Server *Configuration Guide* for your platform.

Modifying interfaces file entries with the dscp utility

Use `dscp` to modify master and query server entries in the *interfaces* file and for the directory services you are using. For information on using `dscp`, refer to the Open Client and Open Server *Configuration Guide* for your platform.

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