

# Installation and Release Bulletin

## Sybase® SDK DB-Library™ Kerberos Authentication Option 15.7

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## 1. Accessing current release bulletin information

A more recent version of this release bulletin may be available on the Web. To check for critical product or document information added after the product release, use the Sybase® Product Documentation Web site.

### ❖ Accessing release bulletins at the Sybase Product Documentation Web site

- 1 Go to Product Documentation at <http://www.sybase.com/support/manuals/>.
- 2 Select a product.
- 3 Select a product version from the Document Set list.
- 4 From the list of individual documents, select the link to the release bulletin for your platform. You can either download the PDF version or browse the document online.

## 2. Product summary

Sybase Software Developer's Kit (SDK) DB-Library™ Kerberos Authentication Option version 15.7 is available on:

- Linux x86 32-bit
- Microsoft Windows x86 32-bit
- Solaris SPARC 32-bit and 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>. For a list of platforms, compilers, and third-party products SDK is built and tested on, see the *New Features Bulletin Open Server 15.7 and SDK 15.7 for Windows, Linux, and UNIX*.

## 2.1 Product overview

The Sybase SDK DB-Library Kerberos Authentication Option allows the MIT Kerberos security mechanism to be used on DB-Library. DB-Library only supports network authentication and mutual authentication in the Kerberos security mechanism.

## 2.2 System requirements

Table 1 lists the system requirements for installing SDK DB-Library Kerberos Authentication Option.

**Table 1: System requirements**

Hardware and operating system	Any of: <ul style="list-style-type: none"><li>• Linux x86 32-bit</li><li>• Microsoft Windows x86 32-bit</li><li>• Solaris SPARC 32-bit and 64-bit</li></ul> For the most current list of supported operating systems, see the Sybase platform certifications page at <a href="http://certification.sybase.com/ucr/search.do">http://certification.sybase.com/ucr/search.do</a>
Disk space	<ul style="list-style-type: none"><li>• Linux x86 32-bit – 104MB</li><li>• Microsoft Windows x86 32-bit – 96MB</li><li>• Solaris SPARC 32-bit and 64-bit – 141MB</li></ul>
Sybase SDK	SDK 15.7 or later

## 3. Installation instructions

This section describes how to install SDK DB-Library Kerberos Authentication Option using these installation modes:

- 1 GUI (graphical user interface) mode – installs the components using the installer interface.
- 2 Console mode – installs components in a command line environment.

- 3 Silent mode – installs the product without user interaction. This is convenient if you are performing identical installations on multiple machines.

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**Note** If you encounter problems during installation, check the installation log file *Kerberos\_Suite.log* to see a record of the installation process. *Kerberos\_Suite.log* is located in %SYBASE%\log\ (Microsoft Windows) or \$SYBASE/log/ (UNIX platforms), where %SYBASE% or \$SYBASE is the installation directory.

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### 3.1 Installing version 15.7 on top of version 15.5

SDK DB-Library Kerberos Authentication Option version 15.7 is a self-replacement for version 15.5. When you install version 15.7 into an existing version 15.5 directory, version 15.7 files overwrite the 15.5 files. Sybase recommends that you back up your 15.5 directory before you install version 15.7.

### 3.2 Running InstallAnywhere and InstallShield Multiplatform installers

Some of the files generated by InstallAnywhere and InstallShield Multiplatform share the same file names. This becomes an issue when you use both InstallAnywhere and InstallShield technologies to install or uninstall products in the same installation directory, because files that are used by both installers are overwritten or removed without warning. Sybase recommends that you do not use InstallShield and InstallAnywhere to install to or uninstall from the same installation directory.

### 3.3 Installing in GUI mode

Follow these steps to install SDK DB-Library Kerberos Authentication Option in GUI mode.

❖ **Installing in GUI mode**

- 1 Ensure that you are logged in as an administrator or that the ID you are using has permission to install software.
- 2 Start the installer.

- 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 the SDK DB-Library Kerberos Authentication Option, and *x:\path\* is the path to *setup.exe*.

- UNIX platforms:

```
cd /cdrom/cdromn/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 SDK DB-Library Kerberos Authentication Option.

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 folder.

To accept the default directory, click Next. To specify a different directory, click Choose, or type the directory path in the input field. Click Next.

- If SDK is not installed in the installation directory you specified, the installer prompts:

```
Installer unable to find "Software Developer's
Kit" in directory_name. "Sybase SDK DB-Lib
Kerberos Authentication Option" requires
"Software Developer's Kit".
```

Click Previous and choose a directory that contains SDK 15.7 or later.

- If the SDK installed is not version 15.7 or later, the installer prompts:

```
Installer unable to find "Software Developer's
```

```
Kit" with version in range "15.7," in
"/opt/sybase". "Sybase SDK DB-Lib Kerberos
Authentication Option" requires "15.7" with
version in range "15.7".
```

Click Previous and choose a directory that contains SDK 15.7 or later.

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

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

Click No and choose a directory that contains SDK 15.7 or later.

- 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 not installed with SDK DB-Library Kerberos Authentication Option, the installer overwrites the common files.

- 6 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.

- 7 In the Install Complete window, click Done.

## 3.4 Installing in console mode

To run the installer without the graphical user interface (GUI), launch it in console mode. If the installer launches automatically, click Cancel to cancel the GUI installation, then launch the setup program from a terminal or console.

### ❖ 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 4, except that the output is written to a terminal window, and responses are entered using the keyboard. Follow the remaining prompts to install the product.

For a complete list of command line options, see the *Software Developer’s Kit and Open Server Installation Guide* for your platform.

## 3.5 Installing in silent mode

To perform a silent or “unattended” installation, run the installer and provide a response file that contains your preferred installation configuration.

### 3.5.1 Creating a response file

To create a response file when installing in GUI or console mode, specify the `-r` command line argument. The `-r` argument records your responses to the installation wizard’s prompts and creates a response file when the installation wizard exits. The response file is a text file that you can edit to change any responses prior to using it in any subsequent installations.

To generate the response file during GUI installation, run:

- Microsoft Windows:

```
setupConsole.exe -r responseFileName
```

- UNIX platforms:

```
./setup.bin -r responseFileName
```

where *responseFileName* is the absolute path of the file name you choose for the response file, for example `C:\SDK\ResponseFile.txt` (Microsoft Windows) or `/home/sybase/SDK/ResponseFile.txt` (UNIX platforms).

---

**Note** The directory path you specify must already exist.

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### 3.5.2 Installing in silent mode

A silent or unattended installation does not involve user interaction; all installation configuration information is taken from the response file. This is useful when you want multiple identical installations or a fully automated installation process.

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**Note** You must agree to the Sybase License Agreement when installing in silent mode. You can either:

- Include the option `-DAGREE_TO_SYBASE_LICENSE=true` in the command line argument.
  - Edit the response file to include `AGREE_TO_SYBASE_LICENSE=true`.
- 

To install in silent mode, run:

- Microsoft Windows:

```
setupConsole.exe -f responseFileName -i silent  
-DAGREE_TO_SYBASE_LICENSE=true -DRUN_SILENT=true
```

- UNIX platforms:

```
./setup.bin -f responseFileName -i silent  
-DAGREE_TO_SYBASE_LICENSE=true -DRUN_SILENT=true
```

where *responseFileName* is the absolute path of the file name containing the installation options you chose.

Except for the absence of GUI screens, all actions of the installer 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.

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**Warning!** When installing on Microsoft Windows, Sybase recommends that you use `setupConsole.exe`, which runs in the foreground when you are running a silent installation. `setup.exe` runs in the background, giving you the impression that the installation has terminated, and results in additional installation attempts using the silent installation. Multiple installations at the same time may corrupt the Windows Registry and lead to a failure to restart the operating system.

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## 4. Configuration instructions

For detailed configuration information, refer to these documents:



- *Open Client and Open Server Configuration Guide for UNIX:*
  - Chapter 6, “Using Security Services”
  - Appendix B, “Configuration Files”
  - Appendix D, “Kerberos Security Services”
- *Open Client and Open Server Configuration Guide for Windows:*
  - Chapter 6, “Using Security Services”
  - Appendix B, “Configuration Files”

## 4.1 Enabling SDK DB-Library Kerberos Authentication Option

### ❖ Enabling Sybase SDK DB-Library Kerberos Authentication Option

Before enabling Sybase SDK DB-Library Kerberos Authentication Option, you must ensure that the option is installed over your existing installation of SDK 15.7 or later.

- 1 In DB-Library, include *sybdbn.h* instead of *sybdb.h*.
- 2 Using *dbsetversion*, set the DB-Library version to *DBVERSION\_100* or above. If you do not set DB-Library to the latest version, DB-Library reverts to the default version of *DBVERSION\_46*, which does not support the new option at the Tabular Data Stream™ (TDS) protocol level.
- 3 Enable the new option using *DBSETLNETWORKAUTH* or *DBSETLMUTUALAUTH*, then call *dbopen*.

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**Note** If the server’s principle name does not match the server’s directory entry name, call *DBSETLSERVERPRINCIPAL* to set the server’s principal name before calling *dbopen*.

---

All calls to *DBSETLNETWORKAUTH*, *DBSETLMUTUALAUTH*, or *DBSETLSERVERPRINCIPAL* after calling *dbopen* remain invalid until the next time the application calls *dbopen*.

- 4 Recompile the application.

## 5. Uninstallation instructions

The SDK DB-Library Kerberos Authentication Option installer includes an uninstallation feature that removes the Sybase components you have installed.

Before uninstalling, consider:

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

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

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- The uninstallation 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.

## 5.1 Uninstallation procedure

You can uninstall SDK DB-Library Kerberos Authentication Option in GUI or console mode. Before uninstalling, shut down all processes and applications that use the software to be uninstalled.

### ❖ Uninstalling in GUI mode

- 1 Start the uninstall script.
  - Microsoft Windows: Select Start | Control Panel | Add or Remove Programs. Select Sybase SDK DB-Lib Kerberos Authentication Option and click Remove.
  - UNIX platforms:

```
$SYBASE/sybuninstall/KerberosSuite/uninstall
```

- 2 Read the introduction. Click Next.
- 3 Read the uninstallation summary. Click Uninstall. The uninstall script removes SDK DB-Library Kerberos Authentication Option and displays a progress indicator.

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**Warning!** When you click Next, the uninstall program proceeds to uninstall the software. You cannot then cancel the operation.

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- 4 In the Uninstall Complete window, click Done.

❖ **Uninstalling in console mode**

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

Microsoft Windows:

```
%SYBASE%\sybuninstall\KerberosSuite\uninstall.exe -i console
```

UNIX platforms:

```
$SYBASE/sybuninstall/KerberosSuite/uninstall -i console
```

The uninstall program starts.

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

For a complete list of command line options, see the *Software Developer's Kit and Open Server Installation Guide* for your platform.

## 6. Installer issues

This section describes the known problems you might encounter when installing SDK DB-Library Kerberos Authentication Option.

### 6.1 Installer cannot create installer directory on Microsoft Windows 2008

**[CR #595614]** On Microsoft Windows 2008, the installer can create the installation directory only when you are logged in as an administrator, even if your role has permission to create directories.

*Workaround:* Create the installation directory before running the installer.

### 6.2 Installer fails to launch when path to *setup.bin* contains “..”

**[CR #595582]** On Linux and Solaris, the installer fails to launch if you specify a path to *setup.bin* that contains “..”.

*Workaround:* Ensure that the path to *setup.bin* does not contain “..”.

### 6.3 Installer cannot use tar to extract from the suite archive

**[CR #593410]** You see this error on Solaris when the installer uses the GNU tar tool to extract files from the suite archive:

```
The included VM could not be unarchived (TAR). Please
try to download the installer again and make sure that
you download using 'binary' mode. Please do not attempt
to install this currently downloaded copy.
```

*Workaround:* Define `/usr/bin/tar` in `$PATH`.

### 6.4 Installation fails on Solaris

**[CR #593148]** When the file descriptor limit is set to “unlimited”, the installer fails with this message:

```
awk: insufficient memory for string storage Context is:
>>>                <<<
```

*Workaround:* Set the “hard” file descriptor limit to a number.

### 6.5 Cannot navigate the Choose Product Features window

**[CR #590282]** On Microsoft Windows, you cannot use the Tab and arrow keys to navigate the Choose Product Features window of the installation or uninstallation program.

*Workaround:* Use the mouse to click the Choose Product Features window. This sets the focus on the window and you will be able to use your keyboard.

### 6.6 Installer stops responding at the Pre-Installation Summary screen

**[CR #589483]** On Linux, when the `df` command stops responding, the installer also stops responding at the Pre-Installation Summary screen.

*Workaround:* Fix the Network File System (NFS) mount and re-run the installer.

### 6.7 Console mode incorrectly displays western character sets

**[CR #588179]** When installing in console mode on Microsoft Windows, some western characters display incorrectly.

*Workaround:* Before you install the product:

- 1 Open a Command Prompt window.
- 2 Run `chcp 1252` to change the code page to 1252.
- 3 Right-click the Command Prompt window title and select Properties. In the Font tab, select “Lucida Console” and click Ok.
- 4 Use the same Command Prompt window to run the installer in console mode.

## 6.8 Feature names are not validated when installing in silent mode

**[CR #583979]** The installer does not validate feature names specified in the response file when you install in silent mode.

*Workaround:* Ensure that the specified feature names are correct.

## 7. Technical support

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 have any questions about this installation or if you need assistance during the installation process, ask the designated person to contact Sybase Technical Support or the Sybase subsidiary in your area.

## 8. 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/>.

## 8.1 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.

## 8.2 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.

## 9. 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.

SDK DB-Library Kerberos Authentication Option 15.7 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.

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**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.

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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.

