

# Installation and Release Bulletin Sybase® SDK DB-Lib™ Kerberos Authentication Option Version 12.5.1

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Topic	Page
1. Accessing current release bulletin information	1
2. Product summary	2
2.1 Product overview	2
3. Special installation instructions	4
4. Technical support	5
5. Other sources of information	5
5.1 Sybase certifications on the Web	6
5.2 Sybase EBFs and software maintenance	6

## 1. Accessing current release bulletin information

A more recent version of this installation and 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 Manuals Web site.

### ❖ To access release bulletins at the Sybase Product Manuals Web site

- 1 Go to Product Manuals at <http://www.sybase.com/support/manuals/>.
- 2 Select a product and language and click Go.
- 3 Select a product version from the Document Set list.

- 4 Select the Release Bulletins link.
- 5 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

Enclosed is the Sybase Software Developer's Kit (SDK) DB-Library (DB-Lib) Kerberos Authentication Option Version 12.5.1, which is compatible with the following platform and operating system configurations:

- Sun Solaris 8 (SPARC 32-bit)
- Sun Solaris 8 (SPARC 64-bit)
- Linux Intel 32-bit
- Windows NT
- Windows 2000
- Windows 2003 32-bit
- Windows XP 32-bit

### 2.1 Product overview

The Sybase SDK DB-Lib Kerberos Authentication Option allows the MIT Kerberos security mechanism to be used on DB-Library™.

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**Note** DB-Library supports only network authentication and mutual authentication services in the Kerberos security mechanism.

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#### 2.1.1 New DB-Library routines

The following new DB-Library routines enable the option:

##### DBSETLNETWORKAUTH

Description	Enables or disables network base authentication.
Syntax	RETCODE DBSETLNETWORKAUTH(LOGINREC *loginrec, DBBOOL enable)
Parameters	<i>loginrec</i>

A pointer to a LOGINREC structure, which is passed as an argument to dbopen. LOGINREC structure can be allocated by calling dblogin.

*enable*

TRUE or FALSE to indicate whether or not the client will turn on Kerberos network authentication at login. The default value is FALSE.

*returns*

SUCCEED or FAIL.

### **DBSETLMUTUALAUTH**

**Description** Enables or disables mutual authentication of the connection's security mechanism.

**Syntax** RETCODE DBSETLMUTUALAUTH(LOGINREC \*loginrec, DBBOOL enable)

**Parameters** *loginrec*

A pointer to a LOGINREC structure, which is passed as an argument to dbopen. LOGINREC structure can be allocated by calling dblogin.

*enable*

TRUE or FALSE to indicate whether or not the client will turn on Kerberos network mutual authentication at login. The default value is FALSE.

*returns*

SUCCEED or FAIL.

### **DBSETLSERVERPRINCIPAL**

**Description** Sets the server's principal name, if required.

**Syntax** RETCODE DBSETLSERVERPRINCIPAL(LOGINREC \*loginrec, char \*name)

**Parameters** *loginrec*

A pointer to a LOGINREC structure, which is passed as an argument to dbopen. LOGINREC structure can be allocated by calling dblogin.

*name*

The server principal name that will be used for authentication. It must be a null-terminated character string with a maximum length of 255 characters, not including the null terminator. The default value is NULL.

*returns*

SUCCEED or FAIL.

## 3. Special installation instructions

### ❖ To enable the Sybase SDK DB-Lib Kerberos Authentication Option

Before enabling the Sybase SDK DB-Lib Kerberos Authentication Option, you must ensure that the Option is installed over your existing installation of SDK 12.5.1 ESD#12 or above.

- 1 In DB-Library, include *sydbn.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 Kerberos option at the 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*.

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

- 4 Recompile application.

For configuration information, refer to the following documents:

- The chapter and appendixes in the *Open Client and Open Server Configuration Guide for UNIX*:
  - Chapter 6, "Using Security Services"
  - Appendix B, "Configuration Files"
  - Appendix E, "Kerberos Security Services"
- The chapter and appendix in the *Open Client and Open Server Configuration Guide for Windows*:
  - Chapter 6, "Using Security Services"

- Appendix B, “Configuration Files”

## 4. 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.

## 5. 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/>.

## 5.1 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 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.

## 5.2 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.

