

Installation and Release Bulletin Sybase® SDK DB-Lib™ Kerberos Authentication Option Version 15.0

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1. Accessing current installation and release bulletins

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.

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Sybase, SYBASE (logo), ADA Workbench, Adaptable Windowing Environment, Adaptive Component Architecture, Adaptive Server, Adaptive Server Anywhere, Adaptive Server Enterprise, Adaptive Server Enterprise Monitor, Adaptive Server Enterprise Replication, Adaptive Server Everywhere, Advantage Database Server, Afaia, Answers Anywhere, Applied Meta, Applied Metacomputing, App-Modeler, APT Workbench, APT-Build, APT-Edit, APT-Execute, APT-Translator, ASEP, Avaki, Avaki (Arrow Design), Avaki Data Grid, AvantGo, Backup Server, BayCam, Beyond Connected, Bit-Wise, BizTracker, Certified PowerBuilder Developer, Certified SYBASE Professional, Certified SYBASE Professional Logo, ClearConnect, Client-Library, Client Services, CodeBank, Column Design, ComponentPack, Connection Manager, Convo/DM, Copernicus, CSP, Data Pipeline, Data Workbench, DataArchitect, Database Analyzer, DataExpress, DataServer, DataWindow, DataWindow .NET, DB-Library, dbQueue, Dejjima, Dejjima Direct, Developers Workbench, DirectConnect Anywhere, DirectConnect, Distribution Director, Dynamic Mobility Model, e-ADK, E-Anywhere, e-Biz Integrator, E-Whatever, EC Gateway, ECMAP, ECRTP, eFulfillment Accelerator, EII Plus, Electronic Case Management, Embedded SQL, EMS, Enterprise Application Studio, Enterprise Client/Server, Enterprise Connect, Enterprise Data Studio, Enterprise Manager, Enterprise Portal (logo), Enterprise SQL Server Manager, Enterprise Work Architecture, Enterprise Work Designer, Enterprise Work Modeler, eProcurement Accelerator, eremote, Everything Works Better When Everything Works Together, EWA, ExtendedAssist, Extended Systems, ExtendedView, Financial Fusion, Financial Fusion (and design), Financial Fusion Server, Formula One, Fusion Powered e-Finance, Fusion Powered Financial Desinations, Fusion Powered STP, Gateway Manager, GeoPoint, GlobalFX, iAnywhere, iAnywhere Solutions, ImpactNow, Industry Warehouse Studio, InfoMaker, Information Anywhere, Information Everywhere, InformationConnect, InstaHelp, Intelligent Self-Care, InternetBuilder, iremote, iRLite, iScript, Jaguar CTS, JConnect for JDBC, KnowledgeBase, Legion, Logical Memory Manager, M2M Anywhere, Mach Desktop, Mail Anywhere Studio, Mainframe Connect, Maintenance Express, Manage Anywhere Studio, MAP, M-Business Anywhere, M-Business Channel, M-Business Network, M-Business Suite, MDI Access Server, MDI Database Gateway, media.splash, Message Anywhere Server, MetaWorks, MethodSet, mFolio, Mirror Activator, ML Query, MobiCATS, MobileQ, MySupport, Net-Gateway, Net-Library, New Era of Networks, Next Generation Learning, Next Generation Learning Studio, O DEVICE, OASIS, OASIS logo, ObjectConnect, ObjectCycle, OmniConnect, OmniQ, OmniSQL Access Module, OmniSQL Toolkit, OneBridge, Open Biz, Open Business Interchange, Open Client, Open ClientConnect, Open Client/Server, Open Client/Server Interfaces, Open Gateway, Open Server, Open ServerConnect, Open Solutions, Optima++, Partnerships that Work, PB-Gen, PC APT Execute, PC DB-Net, PC Net Library, Pharma Anywhere, PhysicalArchitect, Pocket PowerBuilder, PocketBuilder, Power++, Power Through Knowledge, power.stop, PowerAMC, PowerBuilder, PowerBuilder Foundation Class Library, PowerDesigner, PowerDimensions, PowerDynamo, Powering the New Economy, PowerScript, PowerSite, PowerSocket, Powersoft, PowerStage, PowerStudio, PowerTips, Powersoft Portfolio, Powersoft Professional, PowerWare Desktop, PowerWare Enterprise, ProcessAnalyst, Pylon, Pylon Anywhere, Pylon Application Server, Pylon Conduit, Pylon PIM Server, Pylon Pro, QAnywhere, Rapport, Relational Beans, RemoteWare, RepConnector, Report Workbench, Report-Execute, Replication Agent, Replication Driver, Replication Server, Replication Toolkit, Resource Manager, RFID Anywhere, RW-Display-Lib, RW-Library, SAFE, SAFE-PRO, Sales Anywhere, Search Anywhere, SDF, Search Anywhere, Secure SQL Server, Secure SQL Toolkit, Security Guardian, ShareSpool, ShareLinks, SKILLS, smart.partners, smart.parts, smart.script, SOA Anywhere, Trademark SQL Advantage, SQL Anywhere, SQL Anywhere Studio, SQL Code Checker, SQL Debug, SQL Edit, SQL Edit/TPU, SQL Everywhere, SQL Modeler, SQL Remote, SQL Server, SQL Server Manager, SQL SMART, SQL Toolkit, SQL Server/CFT, SQL Server/DBM, SQL Server SNMP SubAgent, SQL Station, SQLJ, Stage III Engineering, Startup.Com, STEP, SupportNow, S.W.I.F.T. Message Format Libraries, Sybase Central, Sybase Client/Server Interfaces, Sybase Development Framework, Sybase Financial Server, Sybase Gateways, Sybase IQ, Sybase Learning Connection, Sybase MPP, Sybase SQL Desktop, Sybase SQL Lifecycle, Sybase SQL Workgroup, Sybase Synergy Program, Sybase Virtual Server Architecture, Sybase User Workbench, SybaseWare, Sybase Financial, SyberAssist, SybFlex, SybMD, SyBooks, System 10, System 11, System XI (logo), SystemTools, Tabular Data Stream, The Enterprise Client/Server Company, The Extensible Software Platform, The Future Is Wide Open, The Learning Connection, The Model For Client/Server Solutions, The Online Information Center, The Power of One, TotalFix, TradeForce, Transact-SQL, Translation Toolkit, Turning Imagination Into Reality, UltraLite, UltraLite.NET, UNIBOM, Unilib, Uninull, Unisep, Unistring, URK Runtime Kit for UniCode, Viafone, Viewer, VisualWriter, VQL, WarehouseArchitect, Warehouse Control Center, Warehouse Studio, Warehouse WORKS, Watcom, Watcom SQL, Watcom SQL Server, Web Deployment Kit, Web.PB, Web.SQL, WebSights, WebViewer, WorkGroup SQL Server, XA-Library, XA-Server, XcelleNet, XP Server, XTNDAccess and XTNDConnect are trademarks of Sybase, Inc. or its subsidiaries. 05/06

❖ **To access current installation and 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 From the list of documents, select the link to the installation and release bulletin. 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 15.0, which is compatible with the following platform and operating system configurations:

- Sun Solaris 8 (SPARC 32-bit)
- Sun Solaris 8 (SPARC 64-bit)
- Linux x86 32-bit
- Microsoft Windows 2000
- Microsoft Windows 2003 32-bit
- Microsoft 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.

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

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 *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 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

Note Silent Installation Mode is not available with the Sybase SDK DB-Lib Kerberos Authentication Option CD. Select either Graphic User Interface Installation Mode or Console Installation Mode.

❖ 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 15.0 ESD#4 or above.

- 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 TDS protocol level.
- 3 Enable the new option using *DBSETLNETWORKAUTH* or *DBSETLMUTUALAUTH*, then call *dbopen*.

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.

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. Known problems

4.1 Error when installing on Sun Solaris platforms

When installing the Sybase SDK DB-Lib Kerberos Authentication Option on Sun Solaris 8 (SPARC 32-bit and 64-bit) platforms, you may receive the following error:

```
sh: /cdrom/dblibkerberos1500sol1/./JVM: not found
```

This error appears when the Sybase SDK DB-Lib Kerberos Authentication Option CD has the same label or volume ID as a previous CD used on the Sun Solaris machine.

Workaround 1: Reboot between installations, if CDs use the same label or volume ID.

Workaround 2: Login as root and remove all *dblibkerberos1500sol** entries in the */vol/dsk* directory.

5. 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.

6. 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/>.

6.1 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.

6.2 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.

