



Adaptive Server[®] Anywhere
Desktop Runtime Edition
Read Me First

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Message Format Libraries, SAFE, SAFE/PRO, SDF, Secure SQL Server, Secure SQL Toolset, Security Guardian, SKILS, smart.partners, smart.parts, smart.script, 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 Server SNMP SubAgent, SQL Server/CFT, SQL Server/DBM, SQL SMART, SQL Station, SQL Toolset, SQLJ, Stage III Engineering, Startup.Com, STEP, SupportNow, Sybase Central, Sybase Client/Server Interfaces, Sybase Development Framework, Sybase Financial Server, Sybase Gateways, Sybase Learning Connection, Sybase MPP, Sybase SQL Desktop, Sybase SQL Lifecycle, Sybase SQL Workgroup, Sybase Synergy Program, Sybase User Workbench, Sybase Virtual Server Architecture, SybaseWare, Syber Financial, SyberAssist, 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, TradeForce, Transact-SQL, Translation Toolkit, Turning Imagination Into Reality, UltraLite, UltraLite.NET, UNIBOM, Unilib, Uninull, Unisep, Unistring, URK Runtime Kit for UniCode, Versacore, Viewer, VisualWriter, VQL, Warehouse Control Center, Warehouse Studio, Warehouse WORKS, WarehouseArchitect, Watcom, Watcom SQL, Watcom SQL Server, Web Deployment Kit, Web.PB, Web.SQL, WebSights, WebViewer, WorkGroup SQL Server, XA-Library, XA-Server, and XP Server are trademarks of Sybase, Inc. or its subsidiaries.

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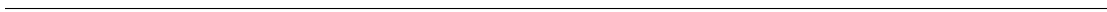
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About This Manual

Subject	This booklet describes the Desktop Runtime Edition of Adaptive Server Anywhere. It describes the features of the Desktop Runtime Edition, and addresses issues of redistribution.
Audience	This manual is for anyone building applications with the Desktop Runtime Edition of Adaptive Server Anywhere.



CHAPTER 1

The Desktop Runtime Edition: Software and Features

About this chapter

This chapter introduces the Desktop Runtime Edition of Adaptive Server Anywhere. It describes the features of the Desktop Runtime Edition, and the supplied software.

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Desktop Runtime Edition overview

The Desktop Runtime Edition of Adaptive Server Anywhere is a special version of the Adaptive Server Anywhere database server. It is intended for use as a low-cost deployment option where the full functionality of Adaptive Server Anywhere is not required.

Feature summary

The Desktop Runtime Edition of Adaptive Server Anywhere has the following features.

- ◆ It is a single-user, transaction-processing database server. It supports up to 10 single-machine connections.
- ◆ It fully supports the DML subset of SQL commands, such as SELECT, INSERT, UPDATE, and DELETE.
- ◆ It provides full referential integrity, including cascading updates and deletes.
- ◆ It supports declared temporary tables.
- ◆ It allows users to be added to a database.
- ◆ It works with existing Adaptive Server Anywhere databases.

Restriction summary

The major restrictions for the Desktop Runtime Edition are as follows:

- ◆ **No transaction log** The Desktop Runtime Edition does not use a transaction log. Consequently, it cannot take part in a replication or synchronization environment.
- ◆ **No data definition** You cannot create or alter database objects such as stored procedures, tables, and indexes.
- ◆ **No stored procedures, events, or triggers** The Desktop Runtime Edition does not support the use of stored procedures, events, or triggers. Consequently, procedure profiling is not available.
- ◆ **No events or schedules** The Desktop Runtime Edition does not support events or scheduling of events.
- ◆ **No defragmentation support** You cannot query the database for fragmentation, nor can you issue defragmentation commands.
- ◆ **No Microsoft/EAServer DTC support** The Desktop Runtime Edition does not support transactions involved with Distributed Transaction Coordination.
- ◆ **No support for SMP-capable machines** The Desktop Runtime Edition does not support multi-processor machines.

- ◆ **No Java** The Java-in-the-database features are not available in the Desktop Runtime Edition.
- ◆ **No remote data access** You cannot access data on remote servers using the Desktop Runtime Edition.
- ◆ **No jConnect access** You can access the Desktop Runtime Edition from JDBC using the iAnywhere JDBC driver, but not using the Sybase jConnect JDBC driver.
- ◆ **No database file encryption** The Desktop Runtime Edition does not support database file encryption.
- ◆ **No communication encryption** You cannot encrypt client/server communications using the Desktop Runtime Edition.
- ◆ **No web services** The Desktop Runtime Edition does not support web services, including HTTP server and SOAP.

☞ For more information, see [“Desktop Runtime Edition features” on page 5](#).

Supported operating systems

The Desktop Runtime Edition is available for the following operating systems:

- ◆ Windows 95/98/Me
- ◆ Windows NT/2000/XP
- ◆ Windows 2003
- ◆ Windows CE

Package contents

Your Adaptive Server Anywhere Desktop Runtime Edition package contains the following:

- ◆ **This booklet** The booklet describes the features of the Desktop Runtime Edition.
- ◆ **Desktop Runtime Edition CD** The Desktop Runtime Edition CD contains software to be installed on your PC.
- ◆ **Software License Agreement** The license agreement defines the terms and conditions of your use of the Desktop Runtime Edition.

Desktop Runtime Edition features

Desktop Runtime and personal server differences

Adaptive Server Anywhere Desktop Runtime Edition is a restricted version of the Adaptive Server Anywhere personal database server.

The functions supported by the Adaptive Server Anywhere personal database server that are not fully supported in the Desktop Runtime database engine are as follows:

Function supported by personal database server	How it operates in the Desktop Runtime Edition
Executable name: <i>dbeng9.exe</i>	The executable name is <i>rteng9.exe</i> . You must ensure that any ODBC data sources and command lines you distribute reflect this executable name.
Replication and synchronization	You cannot replicate data using either MobiLink or SQL Remote or by any other means.
ALTER statements	You cannot use any of the ALTER statements.
CREATE statements	You can use CREATE VARIABLE to create SQL variables. SQL variables do not form part of the database definition. You cannot use any other CREATE statements.
COMMENT statement	You cannot add comments to the system tables.
DROP statements	You cannot use any of the DROP statements to drop a database object from the system tables.
CALL/EXEC statement	You cannot invoke stored procedures, including system procedures. Consequently, you cannot obtain procedure profiling information.
GRANT statement	You can grant the special user permissions (CONNECT, DBA, RESOURCE, GROUP, MEMBERSHIP IN GROUP) using GRANT, but you cannot change permissions on tables and views.

Function supported by personal database server	How it operates in the Desktop Runtime Edition
REVOKE statement	You can revoke the special user permissions using REVOKE, but you cannot change permissions on tables and views.
Triggers	Triggers will not be fired by the Desktop Runtime Edition.
Events	You cannot add events to a database.
No transaction log	<p>To simplify database administration, the Desktop Runtime Edition does not employ a transaction log. Users should back up their databases by making copies of their database file. If a Windows General Protection Fault or a power failure occurs during a standard operation, the database file may be corrupted. Because there is no transaction log, failed transactions cannot be recovered.</p> <p>Auditing, which is a requirement for C2 certification, is not supported because there is no transaction log.</p>
Heterogeneous query support	You can only issue queries to a single database. You cannot access data from external databases using the Desktop Runtime Edition.
Adaptive Server Enterprise/Microsoft SQL Server compatibility	<p>INSERT, UPDATE, DELETE, and SELECT statements can be common between Adaptive Server Enterprise and the Desktop Runtime Edition. However, the advanced syntax feature is not supported in the Desktop Runtime Edition.</p> <p>Database logic cannot be reused within a SQL Server database because the Desktop Runtime Edition does not support stored procedures.</p> <p>The Desktop Runtime Edition does not support Open Server or Open Client, and none of the SQL Server connectivity tools or applications work against the Desktop Runtime Edition engine.</p>

Function supported by personal database server	How it operates in the Desktop Runtime Edition
Communication encryption	You cannot encrypt communications in the Desktop Runtime Edition.
Database file encryption	You cannot encrypt database files that are used by the Desktop Runtime Edition.
The database server options that refer to transaction logs (-a , -f)	Not applicable to the Desktop Runtime Edition.
The database server character set translation option (-ct { + - })	The Desktop Runtime Edition does not support character set translation. The -ct { + - } option is disallowed.
The DBBACKUP options that refer to transaction logs (-r , -t , -x)	Not applicable to the Desktop Runtime Edition.
INSTALL statement	You cannot install Java classes.
JDBC access from client applications	The Desktop Runtime Edition supports JDBC applications using the iAnywhere JDBC driver. The Desktop Runtime Edition does not support applications using jConnect for JDBC access.
Java-in-the-database	You cannot store or execute Java classes in a database used by the Desktop Runtime Edition.
dbisqlc.exe	<p>In Windows 95/98/ME, the displayed result of a statement returning an especially long varchar will be jumbled in the dbisqlc.exe Data window. The result itself is correct.</p> <p>Also, UUIDs and GUIDs appear as non-ASCII characters in dbisqlc. To view them in string format, use the UIDTOSTR method. For example, SELECT UIDTOSTR (newid()).</p>

CHAPTER 2

Redistributable Components

About this chapter

This chapter lists the components that are redistributable under your Adaptive Server Anywhere Desktop Runtime software license.

The Runtime Edition is licensed for standalone use only. If you plan on using the SQL Anywhere Runtime Edition within the context of an application server, web-server, multi-plexors and/or synchronization, you must license the full edition of the Adaptive Server Anywhere/SQL Anywhere Studio.

Deployment issues are also discussed in the chapter “Deploying Databases and Applications” of the *Adaptive Server Anywhere Programming Guide*.

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Windows 95/98/Me and Windows NT/2000/XP

Redistributable files for Windows 95/98/Me and Windows NT/2000/XP are held in the *win32* directory under your Adaptive Server Anywhere installation directory.

If your application uses ODBC, your users need ODBC installed on their computer. Contact Microsoft for information about redistributing ODBC.

Files in win32

The following files are installed into the *win32* directory under your installation directory, and can be redistributed under the software license.

File	Description
asa.cvf	Character set conversion mappings
asa.cvu	Maps single-byte character sets to Unicode
dbbackup.exe	Utility to back up a database
dbcoen9.chm	Help file for connections and ODBC configuration
dbcon9.dll	Connection dialog
dbctrs9.dll	Database server DLL
dbdata9.dll	.Net data provider utility
dbdsn.exe	Utility to create, delete, describe, and list Adaptive Server Anywhere ODBC data sources
dberase.exe	Utility to erase a database
dbinfo.exe	Utility to display information about a database
dbisqlc.exe	SQL command processor
dbjodbc9.dll	JDBC-ODBC Bridge
dbl50t.dll	Compatibility
dbl50to.dll	Interface
dblgen7.dll	Language-specific strings for interface and server
dblgen9.dll	Language-specific strings for interface and server
dblib7.dll	Embedded SQL interface DLL
dblib9.dll	Embedded SQL interface DLL

File	Description
dbmem.vxd	Dynamic cache sizing support for Windows 95/98/Me
dbodbc9.dll	ODBC driver DLL
dboledba9.dll	OLE DB provider
dboledb9.dll	OLE DB provider
dbserv9.dll	Database server DLL
dbstop.exe	Utility to stop a database server
dbsvc.exe	Utility to create, delete, and modify Adaptive Server Anywhere services
dbtool9.dll	Database tools utility DLL
dbtsinfo.exe	Technical support utility
dbvalid.exe	Utility to validate a database
iAnywhere.Data-AsaClient.dll	.Net data provider utility
jodbc.jar	JDBC-ODBC Bridge
policy.9.0.iAnywhere.Data.AsaClient.dll	.Net data provider utility
rteng9.exe	Runtime database server
Util_db.ini	Specifies the password to use when connecting to the utility database
wod50t.dll	Version 5.0 ODBC driver
wl50ent.dll	Version 5.0 language strings

