

CHAPTER 1

Welcome to SQL Remote

About this chapter This chapter introduces SQL Remote and the documentation.

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About SQL Remote

SQL Remote is a data-replication technology designed for two-way replication between a consolidated data server and large numbers of remote databases, typically including many mobile databases.

SQL Remote replication is message based, and requires no direct server-to-server connection. An occasional dial-up or e-mail link is sufficient.

Administration and resource requirements at the remote sites are minimal, and a typical time lag between the consolidated and remote databases is on the order of hours or days.

Sybase SQL Remote technology is provided in two forms:


- ◆ **SQL Remote for Adaptive Server Anywhere** Enables replication between a consolidated Adaptive Server Anywhere database and a large number of remote databases.
- ◆ **SQL Remote for Adaptive Server Enterprise** Enables replication between a consolidated Adaptive Server Enterprise database and a large number of remote databases.

Adaptive Server Enterprise

Sybase Adaptive Server Enterprise was previously known as Sybase SQL Server.

This book describes both of these technologies.

In a SQL Remote installation, you must have properly licensed SQL Remote software at each participating database.

 For a detailed introduction to SQL Remote concepts and features, see "SQL Remote Replication Concepts" on page 9.

Supported platforms and environments

Supported Database Management Systems

SQL Remote supports both Sybase Adaptive Server Enterprise and Sybase Adaptive Server Anywhere database management systems.

Not all operating systems and message systems are supported for both these DBMS's.

Supported message systems

SQL Remote exchanges data among databases using an underlying message system. SQL Remote supports the following message systems:

- ◆ **File sharing** A simple system requiring no extra software.

- ◆ **FTP** Internet file transfer protocol.
- ◆ **SMTP/POP** Internet e-mail protocol.
- ◆ **MAPI** Microsoft Messaging Application Programming Interface, used in Microsoft products and in cc:Mail release 8 and later.
- ◆ **VIM** Vendor Independent Messaging, used in Lotus Notes and in some versions of Lotus cc:Mail.

Not all systems are supported on all operating systems.

Supported
operating systems

SQL Remote for Adaptive Server Enterprise is available for the following operating systems:

- ◆ **Windows NT** All message protocols.
- ◆ **Sun Microsystems Solaris/Sparc** File sharing only.
- ◆ **Hewlett-Packard HP-UX** File sharing only.
- ◆ **Silicon Graphics IRIX** File sharing only.

SQL Remote Open Server on IRIX

A bug in IRIX that was fixed in the IRIX 10.0.3 release EBF 7658 is required for the SQL Remote Open Server. *ssqueue* systems involving SGI/IRIX should make sure this patch is installed.

- ◆ **IBM AIX** File sharing only.

SQL Remote for Adaptive Server Anywhere is available for the following operating systems:

- ◆ Windows 95
- ◆ Windows NT
- ◆ Windows 3.x
- ◆ Sun Microsystems Solaris/Sparc
- ◆ Hewlett Packard HP-UX
- ◆ Silicon Graphics IRIX
- ◆ Novell NetWare.
- ◆ IBM OS/2

Only the file sharing protocol is available on the UNIX and NetWare operating systems.

The mobile Intranet

SQL Remote and Sybase PowerDynamo enable the development of mobile intranets. PowerDynamo is a set of tools for building database-hosted Web sites, and these sites can be replicated using SQL Remote onto laptop computers for offline browsing using the PowerDynamo Personal Web Server.

☞ There are some special considerations when replicating a Web site. For information about using SQL Remote with PowerDynamo, you should read the *PowerDynamo User's Guide*.

About this manual

This manual describes how to design, build, and maintain SQL Remote installations.

The manual includes the following parts.

- ◆ **Introduction to SQL Remote** Replication concepts and features of SQL Remote.
- ◆ **Replication Design for SQL Remote** Designing SQL Remote installations.
- ◆ **SQL Remote Administration** Deploying SQL Remote databases and administering a running SQL Remote setup.
- ◆ **Reference** SQL Remote commands, system tables, and other reference material.

Platforms and products covered by this manual

This documentation applies to all supported platforms of SQL Remote. Not all features are available on all platforms. The operating systems and features you are entitled to use depends on the product you have purchased and your license agreement.

Available formats

The contents of this manual are provided online and in print. In some cases, the print documentation must be purchased separately.

<p>Online documentation most current</p>

<p>The online documentation contains the most current information about SQL Remote. It is more authoritative than the printed manual.</p>

Product installation

This section describes installation of SQL Remote for Adaptive Server Enterprise. If you obtained SQL Remote as part of another product, consult the installation instructions for the product you purchased.

❖ **To install the SQL Remote software for PC's:**

- 1 Insert the CD-ROM into your CD-ROM drive.
- 2 If the installation program does not start automatically, start the *setup* application on the CD-ROM.

3 Follow the instructions in the installation program.

❖ **To install the SQL Remote software for UNIX:**

- ◆ Consult the instructions for your operating system in the Adaptive Server Anywhere *Read Me First* booklet.

🔗 If you are using SQL Remote for Adaptive Server Enterprise, you must install SQL Remote into any database you wish to replicate. For information about installing SQL Remote into a database, see "Setting Up SQL Remote" on page 29.