SYBASE*

Installation Guide

Replication Server®

15.0.1

[UNIX]

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Contents

About This Book.		V
CHAPTER 1	Before You Begin	1 2
	Pre-installation tasks	3
	Plan your replication system	3
	Understand the installation directory structure Set the required environment variable for dsedit utility Perform administrative tasks Installing SySAM	9
CHAPTER 2	Installing Replication Server	. 15 . 17 . 24 . 26
CHAPTER 3	Post-Installation Tasks Review the log files Start Adaptive Server for the RSSD Start the sample Replication Server Set environment variables	31 32 32
Index		35

About This Book

Audience

This book is for System Administrators and other qualified installers who are familiar with their system's environment, networks, disk resources, and media devices.

How to use this book

Before you install Replication Server®, read Chapter 1, "Preparing to Install and Configure Replication Server" in the *Replication Server Configuration Guide for UNIX* to help you plan your installation. However, the step is unnecessary if you plan to install a sample Replication Server.

This guide contains these chapters:

- Chapter 1, "Before You Begin," describes pre-installation information and tasks.
- Chapter 2, "Installing Replication Server," describes how to install Replication Server.
- Chapter 3, "Post-Installation Tasks," provides information about the tasks you must perform after installation.

Related documents

The Sybase® Replication Server documentation set consists of:

- The release bulletin for your platform contains last-minute information that was too late to be included in the books.
 - A more recent version of the release bulletin may be available on the World Wide Web. To check for critical product or document information that was added after the release of the product CD, use the Sybase® Technical Library.
- Installation Guide for your platform (this book) describes installation and upgrade procedures for all Replication Server and related products.
- What's New in Replication Server? describes the new features in Replication Server version 15.0.1 and the system changes added to support those features.

- Administration Guide contains an introduction to replication systems.
 This manual includes information and guidelines for creating and managing a replication system, setting up security, recovering from system failures, and improving performance.
- *Configuration Guide* for your platform describes configuration procedures for all Replication Server and related products, and explains how to use the rs_init configuration utility.
- *Design Guide* contains information about designing a replication system and integrating heterogeneous data servers into a replication system.
- *Getting Started with Replication Server* provides step-by-step instructions for installing and setting up a simple replication system.
- *Heterogeneous Replication Guide* describes how to use Replication Server to replicate data between databases supplied by different vendors.
- Reference Manual contains the syntax and detailed descriptions of Replication Server commands in the Replication Command Language (RCL); Replication Server system functions; Sybase Adaptive Server® commands, system procedures, and stored procedures used with Replication Server; Replication Server executable programs; and Replication Server system tables.
- System Tables Diagram illustrates system tables and their entity relationships in a poster format. Available only in print version.
- *Troubleshooting Guide* contains information to aid in diagnosing and correcting problems in the replication system.
- Replication Manager plug-in help, which contains information about using Sybase CentralTM to manage Replication Server.
- Sybase Software Asset Management User's Guide this manual introduces you to Sybase asset management concepts and provides instructions for establishing and managing your license files.
- FLEXnet Licensing End User Guide this Macrovision manual explains
 FLEXnet Licensing for administrators and end users and describes how to
 use the tools which are part of the standard FLEXnet Licensing
 distribution kit from Sybase.
- SAMreport User's Guide this Macrovision manual explains how to use SAMreport, a report generator that helps you monitor the usage of applications that use FLEXnet licensing.

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/.

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

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.

- Point your Web browser to Technical Documents at http://www.sybase.com/support/techdocs/.
- 2 Click MySybase and create a MySybase profile.

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.

Conventions

This section describes the stylistic and syntactic conventions used in this book.

Style conventions Syntax statements (displaying the syntax and options for a command) are printed as follows:

alter user user set password new_passwd [verify password old_passwd]

viii Replication Server

Examples that show the use of Replication Server commands are printed as follows:

```
alter user louise
set password hFE5t
verify password hFE5t
```

Command names, command option names, program names, program flags, keywords, configuration parameters, functions, and stored procedures are printed as follows:

- Use alter user to change the password for a login name.
- Variables, parameters to functions and stored procedures, and usersupplied words are in italics in syntax and in paragraph text, as follows:
 - The set password *new_passwd* clause specifies a new password.
- Names of database objects, such as databases, tables, columns, and datatypes, are in italics in paragraph text, as follows:
 - The base_price column in the Items table is a money datatype.
- Names of replication objects, such as function-string classes, error classes, replication definitions, and subscriptions, are in italics.

Syntax conventions Syntax formatting conventions are summarized in Table 1. Examples combining these elements follow.

Table 1: Syntax formatting conventions

Key	Definition
variable	Variables (words standing for values that you fill in) are in italics.
{ }	Curly braces mean you must choose at least one of the enclosed options. Do not include braces in the command.
[]	Brackets mean you may choose or omit enclosed options. Do not include brackets in the command.
	Vertical bars mean you may choose no more than one option (enclosed in braces or brackets).
,	Commas mean you may choose as many options as you need (enclosed in braces or brackets). Separate your choices with commas, to be typed as part of the command.
	Commas may also be required in other syntax contexts.
()	Parentheses are to be typed as part of the command.
	An ellipsis (three dots) means you may repeat the last unit as many times as you need. Do not include ellipses in the command.

Obligatory choices

Curly braces and vertical bars – choose only one option.

```
{red | yellow | blue}
```

• Curly braces and commas – choose one or more options. If you choose more than one, separate your choices with commas.

```
{cash, check, credit}
```

Optional choices

• One item in square brackets – choose it or omit it.

```
[anchovies]
```

• Square brackets and vertical bars – choose none or only one.

```
[beans | rice | sweet potatoes]
```

• Square brackets and commas – choose none, one, or more options. If you choose more than one, separate your choices with commas.

```
[extra cheese, avocados, sour cream]
```

Repeating elements An ellipsis (...) means that you may repeat the last unit as many times as you need. For the alter function replication definition command, for example, you can list one or more parameters and their datatypes for either the add clause or the add searchable parameters clause:

```
alter function replication definition function_rep_def
{deliver as 'proc_name' |
add @parameter datatype[, @parameter
datatype]... |
add searchable parameters @parameter
[, @parameter]... |
send standby {all | replication definition}
parameters}
```

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.

Replication Server HTML documentation has 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.

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.

Accessibility features

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.

If you need help

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 cannot resolve a problem using the manuals or online help, please have the designated person contact Sybase Technical Support or the Sybase subsidiary in your area.

xii Replication Server

CHAPTER 1 Before You Begin

This chapter provides information about system and licensing requirements for installing Replication Server. It also discusses other pre-installation tasks you must complete before you install Replication Server.

Topic	Page
Introduction	1
SySAM licensing requirements	2
Pre-installation tasks	3

Introduction

This section describes the components of Replication Server and provides an overview of the tasks involved in installing and setting up Replication Server.

Replication Server components

Replication Server consists of the following components:

- Replication Server
- RepAgentTM for Adaptive Server Enterprise
- Replication Server support files (for example, scripts and configuration files)
- Adaptive Server® Anywhere for Embedded Replication Server System Database (ERSSD)
- RepAgent for ERSSD

- The Replication Server Administration tool, which consists of:
 - Sybase Central version 4.3
 - Replication Manager (RM) plug-in to Sybase Central
- Replication Monitoring Services (RMS)

Installation task overview

The *Replication Server Installation Guide for UNIX* explains how to unload the Replication Server software from the distribution media to your hard disk.

The Replication Server Configuration Guide for UNIX explains how to:

- Gather the information you need to prepare your system for the installation
- Install Replication Servers and add databases to your replication system
- Upgrade existing Replication Server System Databases (RSSDs)
- Downgrade existing RSSDs and then reinstall an earlier version of the software
- Enable password encryption for a Replication Server or RepAgent
- Start and stop Replication Server or RepAgent

SySAM licensing requirements

Replication Server version 15.0.1 includes a new Sybase Software Asset Management System (SySAM) implementation to perform license administration and asset management tasks.

Sybase recommends that you get your license files from the Sybase Product Download Center (SPDC) at https://sybase.subscribenet.com before you begin installation. Accessing SPDC requires a separate login and password information through e-mail.

For general information about SySAM 2.0, see the *Sybase Software Asset Management User's Guide*.

Pre-installation tasks

Before you install Replication Server, follow the steps outlined in this section.

Read the release bulletin

The release bulletin contains last-minute information about installing and upgrading Replication Server software.

Your Sybase products shipment includes printed release bulletins. They are also available on the Product Manuals Web page at http://www.sybase.com/support/manuals.

Plan your replication system

The Replication Server Configuration Guide for UNIX provides the necessary information, including an installation worksheet and a database setup worksheet to help you plan your replication system. Become familiar with Chapter 1, "Preparing to Install and Configure Replication Server" and the requirements of your replication system before continuing with the installation.

Review system requirements

Replication Server requires a computer with the system configuration described in Table 1-1.

Table 1-1: System requirements for UNIX

Item	Requirement
Disk storage	A minimum of 450MB of available hard disk space:
	• 400MB for the Replication Server software, supporting files, and log files.
	• An additional 20MB for each Replication Server disk partition. The disk partition may be on a different disk than your Sybase software.
	One of the following:
	 Disk space for your Adaptive Server Enterprise database, which serves as your Replication Server System Database (RSSD) if you are not using the Embedded RSSD (ERRSD). See your Adaptive Server Enterprise documentation for system requirements.
	 80MB for your Adaptive Server Anywhere database, which serves as your ERSSD. The database directory, transaction log directory, and backup directory that make up the 80MB should each reside on different disks.
	More disk space may be required, depending on your replication system application.
Operating	One of the following platforms:
system	• Sun Solaris 8 and 9
	• HP–UX 11.11 and 11.23
	HP Itanium
	• IBM AIX 5.2
Supported protocols	TCP/IP

Review operating system patch requirements

Contact your operating system provider for any patches recommended for your installation, or check the Replication Server release bulletin for your platform.

If your operating system requires patches, install them before you install Replication Server components.

Note Do not use a patch that is earlier than the version suggested for your operating system. If a patch has been superseded by a newer patch, use the most recent one.

Solaris:

To list all currently installed patches and display the operating system version level, enter:

showrev -p

Increase operating system threads

HP-UX only – Beginning with version 12.5, Replication Server uses operating system threads instead of Open Client/Server threadsTM. This requires the operating system kernel to allocate many more threads per process than previously. However, because many HP-UX systems have relatively low default limits on the number of threads per process and total number of threads per kernel, Replication Server can report the following error message:

```
F. 2002/05/28 12:23:37. FATAL ERROR #1030 ?(?) - /errhand.c(730)
Open Server error: Error: 16361, State: 0, Severity 20 --
'CreateEvent() failed in srv_spawn_thread'.
T. 2002/05/28 12:23:37. (2): Exiting due to a fatal error
```

To prevent this error message, increase the value of max_thread_proc to 256, and the value of nkthread to 2048 in your operating system:

- 1 Log in as the superuser (SU), and go to the root directory.
- 2 Start sam.
- 3 In sam, select "Kernel configuration."
- 4 Select "Configurable parameters."
- 5 Scroll down to "max_thread_proc."
- 6 Increase the value of max_thread_proc.
- 7 Select Actions | ProcessNew Kernel to rebuild the kernel.
- 8 Restart the system.

Configure the operating system for asynchronous I/O

HP-UX only – To optimize asynchronous I/O and to prevent the paging of shared memory, you must grant MLOCK permissions before you install Replication Server.

To grant MLOCK permissions to a group, enter:

```
/etc/privgrp add mlock <group name>
or:
    /etc/setprivgrp <group name> MLOCK
```

Understand the installation directory structure

Most components of Replication Server are installed in their own subdirectories, with the executable program, installation and configuration tools, and display-related files needed by the component. The naming convention for subdirectories includes a component identifier, such as REP (for Replication Server) or OCS (for Open ClientTM and Open ServerTM), and the software release version, such as 15_0.

Replication Server 15.0.1 includes a new version of Replication Server and many of its supporting components. Other Sybase products may contain earlier versions of the same components. Installing Replication Server 15.0.1 into the same directory containing these existing products, will not impact the products.

However, if you are using other Sybase products, installing Replication Server 15.0.1 may cause some environment variables to change. You will have to reset the environment variables in order to make the individual products work.

Note Replication Server 15.0.1 may be installed in the same directory as Adaptive Server Enterprise (ASE) and OCS versions 12.5.1 or later.

You can install Replication Server 15.0.1 on top of Replication Server 12.6, in the same \$SYBASE directory. Installing 15.0.1 on top of Replication Server 12.6 will create a duplicate entry in the interfaces file for SAMPLE_RS, which is the sample Replication Server. rs_init will warn you about the duplicate entry and will use the first instance of SAMPLE_RS found in the interfaces file.

Warning! Do not install Replication Server version 15.0.1 on top of the following Sybase products:

- Replication Server version 12.5 or earlier
- Adaptive Server version 12.5.0.x or earlier
- Open Client/Server version 12.5.0 or earlier
- OpenSwitch version 12.5 or earlier
- DirectConnectTM version 12.5 or earlier

Doing so incapacitates older versions of these products, and can also adversely affect other Sybase products. If you perform one of these installations, you cannot reverse it with an uninstallation, as uninstalling might remove required components of the older Sybase products updated by Replication Server version 15.0.1. For this reason, Sybase recommends that you back up your current directory before installing Replication Server version 15.0.1.

Note If you are installing Replication Server 15.0.1 in an existing Sybase installation directory that contains Adaptive Server version 15.0.1, you may be asked if you wish to install older locales or charset files on top of newer files. To ensure that you have the latest version of these files select "No to all."

Shared components are installed in subdirectories that are separate from component subdirectories. For example, the Replication Server subdirectory is \$SYBASE/REP-15_0. However, Open Client is installed in \$SYBASE/OCS-15_0, and the Replication Manager plug-in for Sybase Central, RMPlugin.jar and its associated files are installed in \$SYBASE/RMP-15_0. The exception is Adaptive Server Anywhere (ASA), which is installed in \$SYBASE/REP-15_0/ASA9, as it is used only for Replication Server. As a result, the directory structure enables you to install into an existing \$SYBASE directory structure, as well as to install and use multiple versions of some components.

Note If your earlier installation includes custom applications or scripts that refer to \$SYBASE, change them to reflect the new installation directory structure.

A diagnostic server *REP-15_0/bin/repserver.diag* is installed to capture and display information about internal processes. Do not delete this program as you may need to use it at the direction of Sybase Technical Support, to diagnose and resolve Replication Server problems.

Note The directory structure listed in this section is a partial directory structure. Your actual directory structure may differ, depending on the components you choose to install.

Review the Sybase installation directory contents

The section lists the contents of the Sybase installation directory in alphabetical order.

Installation directory after installation from the CD

The following items are installed on your machine.

Within \$SYBASE:

Components of Replication Server

- *charsets* character sets and sort order.
- collate Unicode.
- *config* configuration files.
- *interfaces interfaces* file.
- *locales* localization files.

- log.txt the log of the installation process.
- *OCS-15_0* Open Client and Open Server files, including *bin*, *config*, *devlib*, *include*, *lib*, *lib3p*, *sample*, *sybhelp*, and *xappdefaults*.
- REP-15_0 Replication Server 15.0.1 files, including ASA9, bin, certificates, doc, init, install, samp_repserver, scripts, sysam, ThirdPartyLegal, and upgrade.
- SYBASE.csh, SYBASE.sh, SYBASE.env files created by InstallShield that you use to reset environment variables.
- SYSAM-2_0 software license manager files, including bin, licenses, and log.
- _*jvmrep* files used by InstallShield.
- uninstall files used by InstallShield to uninstall Replication Server software.
- *ua* the Replication Monitoring Service (RMS) files in the *plugin* directory, including *common*, *ldap*, *log*, *server*, *services*, *bin*, *conf*, *rtlib*, *utility*, *thirdparty* and *shared*.
- *vpd.properties* file used by InstallShield to keep track of version of installed and uninstalled software. The *vpd.properties* file gets installed in the \$SYBASE directory.

Warning! Do not modify or remove *vpd.properties*. Modifying or removing this file prevents InstallShield from accurately managing installed component versions when you install or uninstall Sybase software subsequent to this installation.

Components of Replication Manager plug-in to Sybase Central

- RMP-15_0 files and directories for Replication Manager plug-in to Sybase Central, including bin, help, install, lib, and scripts.
- Shared common components shared across products, including the Java runtime environment and files and directories for Sybase Central 4.3.

Set the required environment variable for dsedit utility

The Replication Server installation also includes a utility called dsedit, which lets you configure the *interfaces* file. The dsedit utility requires the following environment variables to be set:

Solaris – LD_LIBRARY_PATH

- HP-UX SHLIB PATH
- IBM AIX LIBPATH

Set the environment variable as follows:

```
$SYBASE/$SYBASE OCS/lib
```

If you do not set this environment variable, dsedit does not start, and an error message reports that a shared library cannot be found. All libraries needed to run dsedit are in the \$SYBASE/\$SYBASE_OCS/lib directory. Use the \$SYBASE.csh and \$SYBASE.sh files to set this environment variable. See "Set environment variables" on page 33 for more information.

For more information on dsedit, see Chapter 5, "Using dsedit" in the *Adaptive Server Enterprise Utility Guide*.

Perform administrative tasks

This section describes administrative tasks that you must complete before you begin the installation process.

- 1 Back up your current replication system.
- 2 Create the "sybase" user account and make sure it has read, write, and execute permissions. See "Creating the "sybase" user account" on page 10 for more information.
- Werify that the directory location for the Sybase installation has sufficient space.
- 4 Verify that your network software is configured.
 - Sybase software uses network software, even if Replication Server and Sybase client applications are installed on a machine that is not connected to a network.
- 5 If you are using an RSSD, verify that Adaptive Server Enterprise is up and running.

Creating the "sybase" user account

To make sure that Sybase product files and directories are created with consistent ownership and privileges, one user (typically the Sybase System Administrator, who has read, write, and execute privileges) should perform all installation, configuration, and upgrade tasks.

To create a Sybase System Administrator account, choose an existing account, or create a new account and assign a user ID, group ID, and password for it. This account is sometimes called the "sybase" user account. See your operating system documentation for instructions on creating a new user account.

If you have already installed other Sybase software, the "sybase" user probably already exists. Verify that you can log in to the machine using this account.

Installing SySAM

Before you install Replication Server, you must plan the type of SySAM license configuration you want to use. Depending on your configuration choice, you may also need to perform additional pre-installation tasks before installing Replication Server.

SySAM allows you to acquire a license using a local file or you can acquire a license from a network license server. See "Choosing a license model", in Chapter 2 "Understanding Licensing Concepts and Models" of the *Sybase Software Asset Management User's Guide*.

Note There can only be one instance of a SySAM license server running on a given machine. If you want to setup a SySAM 2.0 license server on a machine that is already running a SySAM 1.0 license server, the old license server must be migrated to 2.0. A migrated license server can serve licenses for both SySAM 1.0 and SySAM 2.0 enabled products.

For instructions on migrating a license server, see Appendix F of the *Sybase Software Asset Management User's Guide*.

Installing a new license server

- 1 Mount the CD by running the following command:
 - HP-UX

Enter the following where *device_name* is the name of the CD device drive, and /RS150HP/cdrom is the name of the directory where the CD is to be mounted:

/etc/mount -F cdfs -o ro device name /RS150HP/cdrom

IBM AIX

Enter the following where *device_name* is the name of the CD device drive, and /RS150IBM/cdrom is the name of the directory where the CD is to be mounted:

/usr/sbin/mount -v 'cdrfs' -r device_name /RS150IBM/cdrom

The location of the mount command is site-specific and may differ from what is shown in these instructions.

Solaris

The operating system mounts the CD automatically.

2 Launch the Sybase installer program by entering:

```
./setup
```

- 3 The Welcome Window displays. Click Next.
- 4 Accept the license agreement.
- 5 Enter or select the destination directory.
- 6 Select the custom installation.
- 7 Select only SySAM Network License Server for installation.
- 8 Unselect other components, to install the Net License Server only.
- 9 Click OK for the installer to install SySAM licensing tools.
- 10 Get the host ID for the machine on which the new license server will run. To get the host ID:
 - Go to \$SYBASE/\$SYBASE_SYSAM/bin where \$SYBASE is the Sybase installation directory and \$SYBASE_SYSAM is the directory for SYSAM-2_0.
 - Enter:
 - ./lmutil lmhostid

Note If your machine has multiple network adapters, Imutil Imhostid returns host IDs associated with each adapter. Choose one of the IDs. Avoid using IDs for removable network adapters.

- Save the host ID to use at the Sybase Product Download Center.
- 11 Go to the Sybase Product Download Center (SPDC) at https://sybase.subscribenet.com.

- 12 Get the license you want to install. See Chapter 3 "Getting and Using Your License" of the *Sybase Software Asset Management User's Guide*.
- 13 Copy the license file in the licenses directory \$SYBASE/\$SYBASE_SYSAM/licenses on the network license server machine.
- 14 Start the SySAM network license server:
 - Go to:

\$SYBASE/\$SYBASE SYSAM/bin

Enter:

sysam start

15 Validate that the license daemon is running by entering:

sysam status

You can also check Chapter 4 "License Server Administration" and Chapter 7 "GUI Administration for SySAM" of the *Sybase Software Asset Management User's Guide*, for more information.

CHAPTER 2 Installing Replication Server

This chapter describes how to install the Replication Server software from a CD using InstallShield.

Topic	Page
Using InstallShield for installation	15
Installing Replication Server	17
Uninstalling Sybase products	27

Note When you have completed the installation instructions in this chapter, return to the *Replication Server Configuration Guide for UNIX* to begin customizing your newly installed Replication Server.

Using InstallShield for installation

When you first install a Sybase product, InstallShield creates a Sybase installation directory, if it does not already exist, which contains the support files for all Sybase products.

When you install Replication Server using InstallShield, its software and support files are stored in the Sybase installation directory. You can install all Sybase software in the same installation directory.

Warning! Do not install Replication Server into an existing Adaptive Server Enterprise 12.x (64-bit) directory. This may cause some localization (*.loc*) files to be overwritten, resulting in problems with starting Adaptive Server Enterprise.

InstallShield is Java-based, so the installation process is similar on both UNIX-based and Windows-based computers.

InstallShield enables you to:

- Install all Replication Server components. You can choose the installation option that works best for you:
 - Typical (default) installs the Replication Server components considered to be useful for most customers. In this type of installation, only the U.S. English language module and its supported character sets are installed. The components that will be installed and the total disk space required display prior to installation.
 - Full installs every Replication Server component including all the supported language modules from the CD. The components that will be installed and the total disk space required display prior to installation.
 - Custom allows you to select the components to install.
 Recommended for advanced users. When you select Custom install, the next window displayed is the Component Selection window, which allows you to select the components to install.

Note Certain components are automatically installed if they are required to run other selected components.

- Easily view software release version and properties for components on the installation CD.
- Uninstall all Replication Server 15.0.1 components.

In addition, InstallShield:

- Creates the SYBASE.csh or SYBASE.sh script files. You can later use these
 files to reset environment variables after exiting InstallShield and before
 configuring Replication Server. See "Set environment variables" on page
 33.
- Starts the sample Replication Server when the installation process is complete, if you installed the defaults.
- You must manually start other components, such as Replication Monitoring Services, and the license manager, if needed.

If you did not install the defaults, follow the instructions in the *Replication Server Configuration Guide for UNIX* to start, then configure Replication Server.

Installing Replication Server

Follow the procedures in this section to install Replication Server components.

Installing Replication Server components

- 1 Choose one of the following installation modes:
 - Graphical user interface (GUI) lets you install the components using the InstallShield interface.
 - Console lets you install components in a command line environment.
 - Response file lets you record or create a response file. You can install Replication Server in two different ways using a response file:
 - Silent lets you save the installation settings in a response file and install the product without any interaction required on your part. This is convenient if you are performing identical installations on multiple machines.
 - Console installation using response file lets you install in console mode but with all the responses already filled in, so that you can accept all the defaults and install Replication Server according to the responses in the response file. This can be convenient if several sites are installing Replication Server in a nongraphical user interface environment and must conform to a standard installation with minor changes.

Note If you encounter problems during installation, check the installation log file to see a record of the installation process. The file is located in *\$SYBASE/log.txt*, where *\$SYBASE* is the Replication Server installation directory.

2 Mount the Replication Server CD:

Solaris:

The operating system mounts the CD automatically. If you get CD-reading errors, check your operating system kernel to make sure the ISO 9660 option is turned on.

Note If your CD shows up as anything other than *sybasecd*, it means you previously installed a Sybase CD on your system. Perform either of these two options to install your current CD:

- Restart your system.
- Delete the *sybasecd* file in /vol/dsk.

HP-UX:

- a Log out.
- b Log in as "root."
- Enter the following where *device_name* is the name of the CD device drive, and /RS150HP/cdrom is the name of the directory where the CD is to be mounted:

```
/etc/mount -F cdfs -o ro device name /RS150HP/cdrom
```

- d Log out as "root."
- e Log in as "sybase."

IBM AIX:

Mount the CD using the following command, where *device_name* is the name of the CD device drive, and /RS150IBM/cdrom is the name of the directory where the CD is to be mounted:

```
/usr/sbin/mount -v 'cdrfs' -r device name /RS150IBM/cdrom
```

The location of the mount command is site-specific and may differ from what is shown in these instructions.

If you cannot mount the CD drive, consult your operating system documentation or contact your operating system administrator.

Werify that you are logged in as the "sybase" user with "root" privileges.

Installing in GUI mode

- At the UNIX prompt, enter the following, where *cdrom* is the directory you specified when mounting the CD drive, and *./setup* unloads the components in GUI mode:
 - IBM AIX:

```
cd /device_name
./setup -is:javahome JVM
```

HP-UX:

```
cd /cdrom
./setup
```

Solaris:

```
cd /cdrom/rs150solaris
./setup
```

2 You might see the following error message:

Error writing file = There may not be enough temporary disk space. Try using -is:tempdir to use a temporary directory on a partition with more disk space.

If so, set the temporary directory to another directory that has more disk space by entering the following at the command line, where *directory_name* is the name of the temporary directory to which InstallShield will write its temporary files:

```
setup -is:tempdir directory name
```

This directory should have at least 100MB of disk space.

- 3 Select Next.
- 4 Choose your geographic location in the license and copyright agreement window.
- 5 Read the Sybase license agreement and select "I agree." Click Next. You must agree to the license and copyright before you can continue.
- 6 In the install directory window, click Next to accept the default directory for the installation (\$SYBASE or /opt/sybase), or enter a different directory name.
- 7 If the installation directory you chose does not exist, InstallShield prompts:

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

8 Click Yes. If the installation directory you selected exists, and contains a prior installation, InstallShield prompts you with the following message:

You have chosen to install into an existing directory. Any older versions of the products you choose to install that are detected in this directory will be replaced. Do you want to continue with installation into this directory?

Click Yes if you wish to install on top of the previous installation. If the products were previously installed with:

- Studio Installer (for example, if you installed a version of Replication Server earlier than 12.6 or a version of Adaptive Server earlier than 12.5.1), InstallShield overwrites common components.
- InstallShield, the correct course of action is determined by InstallShield without prompting you.
- 9 Select the type of installation:
 - If you choose Full or Typical, InstallShield displays the following default components:
 - Sybase Servers Replication Server
 - Connectivity
 - Language Modules for Replication Server
 - Language Modules Connectivity
 - Shared
 - Replication Monitoring Services
 - Replication Server Administration Tools Sybase Central and Replication Manager Plugin
 - Sybase Software Asset Management
 - If you choose Custom, select the components to install. Certain components are automatically installed if they are required to run your selected components.
- 10 Click Next. InstallShield displays a progress indicator as it installs the components.

If you do not have enough disk space for the installation, InstallShield displays an error message. In this case, exit InstallShield, remove any programs or files that you do not need, and clean out temporary directories. Then, restart InstallShield.

11 On successful installation, InstallShield displays the following message: Click Next.

The InstallShield Wizard has successfully installed Replication Server Software, Version 15.0.1. Choose next to continue the wizard.

12 The SySAM License Server window opens and displays this prompt:

Will licenses be obtained from the License Server?

• Select Yes if you have a preexisting SySAM network license server installed or install a new license server using "Installing a new license server" on page 11.

Enter the host name and the port number of the license server.

 Select No if you do not have a SySAM license server installed and are going to use a local license file. A message displays telling you to download the license file.

If you select Yes and the license server is not found, or you select No and the local license file is not installed on your local machine, this message displays:

Installer can't check out a license. Do you want to continue with a license?

Click Yes to complete the installation. If you select No, this message displays:

Please remember to download and install the license file after this installation.

Click OK to return to the beginning of step 12.

Note See "Choosing a license model," in Chapter 2 "Understanding Licensing Concepts and Models" of the *Sybase Software Asset Management User's Guide* for information on which choice is appropriate for your installation.

13 The SySAM Notification window asks you to configure your server for e-mail notification. When configuration is enabled, you will receive information about license management events requiring attention.

- SMTP server host name
- SMTP server port number
- E-mail Return Address
- Recipient e-mail addresses
- Message severity that triggers e-mail messages
- 14 On the sample Replication Server option window, select:
 - Yes to configure and start a sample Replication Server. InstallShield displays the configuration information for the sample Replication Server. Write this information down.
 - No to complete the installation and configure a fully-featured Replication Server manually.

If you select No, you can configure and start a sample Replication Server after installation. See "Start the sample Replication Server" on page 32 for more information.

15 Click Next. If you chose to configure and start a sample Replication Server, InstallShield displays the configuration information related to the sample Replication Server:

This page contains detailed information regarding the sample Replication Server. Please record this information.

The sample Replication Server will be called SAMPLE_RS and will run on port 11752. It will be configured with a user of sa and no password.

The sample Replication Server will use an embedded RSSD called SAMPLE_RS_ERSSD that runs on port 11751. It will be configured with a user of SAMPLE RS RSSD prim and a password of SAMPLE RS RSSD prim ps.

The installer has updated the appropriate interfaces file or sql.ini file.

All files and logs associated with the sample Replication Server will be located in the directory \$SYBASE/REP-15_0/samp_repserver.

The sample Replication Server will be configured using the file \$SYBASE/REP-15_0/samp_repserver/SAMPLE_RS.res.

- 16 Click Next. The Configure New Replication Server window displays the progress of the server configuration.
- 17 Click Next. The Installation Completed window appears, verifying that the Replication Server software is now installed.

If you chose to start a sample Replication Server, it is started automatically. If you did not choose to start a sample Replication Server, you must configure and then start your Replication Server manually.

See the *Replication Server Configuration Guide for UNIX* for information about configuring your new Replication Server.

18 Click Finish. The InstallShield wizard closes.

Installing in console mode

The steps for installing components in an interactive text mode are the same as those described in "Installing in GUI mode" on page 19, except that you execute InstallShield from the command line using the setup -console command, and you enter text to select installation options.

- 1 At the command line, enter:
 - HP-UX and Solaris:

```
./setup -console
```

IBM AIX:

```
./setup -console -is:javahome JVM
```

InstallShield starts and displays the welcome window as follows:

Welcome to the InstallShield Wizard for Sybase Replication Server Software, Version 15.0.1.

The InstallShield Wizard will install Replication Server Software, Version 15.0.1 on your computer.

To continue, choose Next.

Press 1 for Next, 3 to Cancel or 4 to Redisplay [1]

2 Follow the remaining prompts to install Replication Server software.

Installing in command line mode

This section discusses the various installation methods available to you from the command line.

Note If the environment variable \$SYBASE is set, the installer uses it as the default directory for installation. However, you can explicitly specify a different directory during the installation process to override \$SYBASE.

Installing with a response file

You can install Replication Server using a response file in combination with a console or silent installation. You must first create the response file.

Note You must provide the absolute path name for the response file you create.

To create a response file, do one of the following at the command line:

- Enter the following command, where *REP.response* is name you choose for the response file:
 - HP-UX and Solaris:
- ./setup -options-template REP.response
 - IBM AIX:
- ./setup -options-template REP.response -is:javahome JVM

InstallShield creates an options template called *REP.response*. Edit the template with the values you want to use during installation.

• Enter the following command at the command line, where *REP.response* is a name you choose for the response file:

Note You must provide the absolute path name for the response file you create.

HP-UX and Solaris:

```
./setup - options-record REP.response
```

IBM AIX:

./setup - options-record REP.response -is:javahome JVM

InstallShield runs the installation in GUI mode and captures all user choices to a file called *REP.response*. You can also specify the -console option to get the same results.

You can use *REP.response* for future installations of Replication Server, either as is or edited for the new installation.

Editing the response file

1 Specify the installation location, where *path* is the full path and file name:

```
-P installLocation=path
```

Do not use special characters for the path name, such as blanks or periods.

2 Specify the setup type, where *installation_type* specifies the type of installation (Full, Typical, or Custom):

```
-W setupTypes.selectedSetupTypeId=installation type
```

If you specify either the Full or Typical installation, you do not need to uncomment the individual features; these features have been predefined as installed.

If you choose the Custom installation, you must uncomment the desired features and set their values to "true."

The last line in the response file allows you to specify if you want to start a sample Replication Server. You must uncomment this line and specify either "yes" or "no" (case sensitive; use all lowercase):

```
-W ConfigureReplicationServer.Yes-or-No="no"
```

Installing in console mode with a response file

A console mode installation using a response file lets you accept all defaults as you move through an interactive text installation, because the values come from a response file that you have set up.

Follow the same steps as you would for a regular console installation, but at the command line, enter:

HP-UX and Solaris:

```
./setup -console -options REP.response -W\
SybaseLicense.agreeToLicense=true
```

• IBM AIX:

```
./setup -console -options REP.response -is:javahome JVM\
-W SybaseLicense.agreeToLicense=true
```

Installing in silent mode

A silent mode installation, sometimes referred to as an unattended installation, allows you to install the product using a response file to set default values, without any interaction required on your part.

Follow the same steps as you would for a console installation, but at the command line, enter:

• HP-UX and Solaris:

```
./setup -console -options REP.response -W\ SybaseLicense.agreeToLicense=true
```

IBM AIX:

```
./setup -console -options REP.response -is:javahome JVM\
   -W SybaseLicense.agreeToLicense=true
```

Where:

- REP.response is the name of the file containing the installation options you chose.
- -W SybaseLicense.agreeToLicense=true specifies that you agree with the Sybase License Agreement text.

Checking for a valid installation

- View the \$SYBASE/log.txt file and check for errors.
- 2 Verify that the *vpd.properties* file has been written in the *\$SYBASE* directory.
- 3 Check that the date of the *vpd.properties* file reflects the date of this current installation.

Troubleshooting installation

For troubleshooting during GUI, console, or silent mode installation using an option file, enter the following at the command line where *ERROR.log* is the name of the log that will capture events specific to the console or silent mode installation:

HP-UX and Solaris:

```
./setup -silent -options Rep.response -W\
SybaseLicense.agreeToLicense=true -is:log Error.log
```

-is:javaconsole

• IBM AIX:

```
./setup -silent -options Rep.response -is:javahome JVM\
-W SybaseLicense.agreeToLicense=true -is:log ERROR.log
-is:javaconsole
```

The -is:log parameter creates an *ERROR.log* log file, and the -is:javaconsole parameter causes errors to be written to the screen.

Note If you encounter errors during installation, check the installation log file to see a record of the installation process. The log file is located in \$SYBASE/log.txt.

If this is the first time you have installed a Sybase product on this machine, InstallShield creates a Sybase installation directory. This directory contains the support files for all Sybase products.

Uninstalling Sybase products

InstallShield includes an uninstall feature that removes the Sybase components you have installed.

You can invoke the uninstall procedure using either GUI or console methods. Sybase recommends that you use the GUI method.

Before uninstalling Sybase software, log on to your machine using an account with administrator privileges. Then shut down Replication Server and all other processes for the components you are uninstalling.

Note InstallShield removes only those files that were loaded from the installation media. Some Sybase files, such as log and configuration files, are left intact for administrative purposes. The *installed* or *_jvmrep* directories are also not removed by InstallShield.

Uninstalling in GUI mode

To uninstall the products in GUI mode, first source the *SYBASE.csh* or *SYBASE.sh* as appropriate, then execute the following at the command line:

IBM AIX, HP-UX, and Solaris:

```
$SYBASE/uninstall/REP1501/uninstall
```

The Uninstaller window opens.

- 2 Click Next.
- 3 Select the product you want to remove from the list, then click Next.
- 4 Verify the summary information, then click Next.

The uninstaller removes the files associated with the software.

5 Click Finish.

Note You may be prompted to decide whether to remove shared files. Sybase recommends that you do *not* remove shared files.

6 If you are uninstalling the Replication Manager plug-in to Sybase Central, Java Edition, and you have previously installed both the Replication Manager plug-in *and* the Adaptive Server plug-in to Sybase Central, Java Edition, unregister the Replication Manager plug-in in Sybase Central.

See the Replication Manager plug-in online help for more information.

Uninstalling in console mode

1 To uninstall the products in console mode, first source the *SYBASE.csh* or *SYBASE.sh* as appropriate, then execute the following at the command line:

IBM AIX, HP-UX, and Solaris:

```
$SYBASE/uninstall/REP1501/uninstall -console
```

The uninstaller program starts.

2 Choose the Replication Server software product you want to uninstall.

The Replication Server software product you chose and its associated files are removed.

Note You may be prompted to decide whether to remove shared files. Sybase recommends that you do not remove shared files.

If you are uninstalling the Replication Manager plug-in to Sybase Central, Java Edition, and you have previously installed both the Replication Manager plug-in *and* the Adaptive Server plug-in to Sybase Central, Java Edition, unregister the Replication Manager plug-in in Sybase Central.

See the Replication Manager plug-in online help for more information.

CHAPTER 3 Post-Installation Tasks

This chapter describes the post-installation tasks that you need to perform after installing the Replication Server software.

For more information, see the *Replication Server Configuration Guide for UNIX*.

Topic	Page
Review the log files	31
Start Adaptive Server for the RSSD	32
Start the sample Replication Server	32
Set environment variables	33

Review the log files

Information about the configuration of Replication Server is stored in the following log files:

• InstallShield error log file:

\$SYBASE/log.txt

Adaptive Server Anywhere error logs:

\$SYBASE_REP/samp_repserver/errorlog/

rs_init log file:

\$SYBASE\\$SYBASE_REP\init\logs\logmmdd.xxx

For example: \$SYBASE/\$SYBASE_REP/init/logs/log1106.001

• Replication Server log file:

\$SYBASE\\$SYBASE_REP\install\rs_name.log

For example: \$SYBASE/\$SYBASE_REP/install/REP_redtail.log

Start Adaptive Server for the RSSD

To use the RSSD stored on Adaptive Server Enterprise, install the Adaptive Server Enterprise database, if you have not done so already. For installation instructions, see the *Adaptive Server Enterprise Installation Guide* for your platform.

After successful installation, start Adaptive Server Enterprise. For more information, see Chapter 2, "Starting and Stopping Servers" in the *Adaptive Server Enterprise Configuration Guide* for your platform.

Note If you are upgrading to a later version of Adaptive Server Enterprise and you have replicated databases, read Appendix B, "Upgrading Servers with Replicated Databases," in the *Adaptive Server Enterprise Installation Guide* for your platform.

Start the sample Replication Server

During installation, InstallShield asks if you want to configure and start a sample Replication Server. InstallShield creates a resource file, \$SYBASE/REP-15_0/samp_repserver/SAMPLE_RS.res, for the sample Replication Server and updates the *interfaces* file regardless of your choice. If you select No, you can still configure and start the sample Replication Server after installation using this resource file.

To create and start the sample Replication Server after installation, at the command prompt, enter:

```
$SYBASE/REP-15_0/install/rs_init -r\
$SYBASE/REP-15_0/samp_repserver/SAMPLE_RS.res
```

The rs_init utility displays commands as it executes them, and writes this output to its log.

If you encounter errors during configuration and start-up of the sample Replication Server, read this log file,

\$SYBASE/REP-15_0/init/logs/logmmdd.xxx, where:

- mm is the month.
- dd is the day.

• xxx – is the number of that instance of the log on that day.

The sample Replication Server is configured using the *SAMPLE_RS.res* resource file. All files and logs associated with the sample Replication Server are in the directory *\$SYBASE/REP-15_0/samp_repserver*.

Table 3-1 contains the sample Replication Server configuration information. Keep this information in a safe place for later reference.

Table 3-1: Sample Replication Server configuration information

Sample Replication Server item	Definition
Name	SAMPLE_RS
Port	11752
User name	sa
Password	None
ERSSD server name	SAMPLE_RS_ERSSD
ERSSD server port	11751
ERSSD user name	SAMPLE_RS_RSSD_prim
ERSSD password	SAMPLE_RS_RSSD_prim_ps

For more information about rs_init, see Chapter 2, "Configuring Replication Server and Adding Databases with rs_init," in the *Replication Server Configuration Guide for UNIX*.

Set environment variables

InstallShield automatically sets system environment variables that are needed by InstallShield. InstallShield installs three files that contain these environment variables:

- \$SYBASE/SYBASE.sh
- \$SYBASE/SYBASE.csh
- \$SYBASE/SYBASE.env

After you exit InstallShield, you may need to reset environment variables, for example, if someone other than the Sybase administrator must use the software.

To set these environment variables, you can either:

- Use the source command to source *SYBASE.sh* or *SYBASE.csh* and update the component's RUN environment immediately for your current session, before invoking any component, or
- Modify the component's RUN environment permanently using the environment variable values from the shell files.

Table 3-2 describes the environment variables.

Table 3-2: Environment variables for UNIX

Environment variable	Description
Solaris:	The subdirectory path to the Open Client and Open Server runtime shared library.
\$LD_LIBRARY_PATH	
IBM AIX:	
\$LIBPATH	
HP-UX:	
\$SHLIB_PATH	
\$LM_LICENSE_FILE	The subdirectory path to the <i>license.dat</i> file, which SySAM needs to run the license
	manager.
\$PATH	The directory path to Replication Server files.
\$SYBASE	The home directory where you install all Sybase products.
\$SYBASE_JRE	The subdirectory path to the Java Runtime Environment (JRE).
\$SYBASE_OCS	The subdirectory path to Open Client files.
\$SYBASE_REP	The subdirectory path to Replication Server.
\$SYBASE_RMP	The subdirectory path to the Replication Manager plug-in to Sybase Central, Java
	Edition.
\$SYBASE_SYSAM	The subdirectory path to SySAM license manager.
\$SYBASE_UA	The subdirectory path to the Unified Agent Framework and Replication Monitoring
	Services.
\$SCROOT	The subdirectory path to Sybase Central.
\$SYBROOT	The parent directory of \$SCROOT. If Sybase Central is installed in the same
	directory as Replication Server, \$SYBASE and \$SYBROOT will be the same.

Index

A	2
accounts, creating sybase user 10 Adaptive Server for the Replication Server System Database 32 upgrading 32 administration tasks 10	Replication Server Installation Guide for UNIX 2 diagnosing software problems 8 directories Sybase installation 15 directory default 19 structure 6 disk space, not enough for installation 21 disk storage requirements 4
charsets subdirectory 8	dsedit utility 9
checking for a valid installation 26	
collate subdirectory 8	
command line installation mode 24	E
commands	editing the response file 25
source 34	Embedded Replication Server System Database
complete installation 16	(ERSSD) 32
components of Replication Server 1	environment variables
config subdirectory 8 console mode	\$LM_LICENSE_FILE 34
installation 23	<i>\$PATH</i> 34
installation using a response file 17, 25	required for dsedit 9
troubleshooting 26	setting 16, 33
uninstallation 28	\$SYBASE 34
conventions	\$SYBASE_JRE 34
document style viii	\$SYBASE_OCS 34 \$SYBASE_REP 34
examples ix	\$SYBASE_RMP 34
syntax statements ix	\$SCROOT 34
creating	\$SYBROOT 34
response files 24	\$SYBASE_SYSAM 34
sybase user accounts 10, 11	\$SYBASE_UA 34
custom installation 16, 20	table of 34
	examples
	style conventions ix
D	existing Adaptive Server Enterprise 12.x (64-bit)
default directory 19	directory warning about installing into 15
details	existing installation directories 20
Replication Server Configuration Guide for UNIX	existing installation directories 20

Installation Guide for UNIX

F	SySAM 11
files	installing
installation log 27	a network license server 11
log.txt 9, 27	Adaptive Server for the Replication Server System Database 32
<i>SYBASE.csh</i> 9, 16, 33	console mode with a response file 25
SYBASE.env 9, 33	in command line mode 24
<i>SYBASE.sh</i> 9, 16, 33	Replication Server 17
vpd.properties 9	silent mode 26
full installation 16	using InstallShield 15
	using -W flag 26
	with a response file 24
G	InstallShield
	complete installation 16
geographic location 19	custom installation 16, 20
graphical user interface (GUI) installation 17	definition of 15
GUI mode	GUI mode 19
installation 19	log.txt 17
uninstalling 28	previous installation with 20
	standard installation 16, 20
	starting 19
H	interfaces subdirectory 8
HP-UX operating system threads 5	
or operating system throats	
	J
1	_jvmrep subdirectory 9
- installation	
CD, mounting 18	
console mode 23	L
methods 17	license agreement 19
not enough disk space for 21	license agreement 19 licenses
troubleshooting during silent or console mode 26	installing a network license server 11
typical software components 20	\$LM_LICENSE_FILE 34
installation directories	locales subdirectory 8
contents 8	location
existing 20	geographic 19
new 19	mount command 12, 18
Sybase 15	log files, reviewing after installation 31
installation log file 27	<i>log.txt</i> file 9, 17, 27
installation methods	
console with response file 17	
GUI 17	NA.
response file 17 silent 17	М
Installing	methods of installation 17
mstaning	

mount command location 12, 18	requirements
mounting the installation CD 18	disk storage 4
	operating system 4
	operating system patches 4
NI .	system 4
N	resetting environment variables 16
new installation directories 19	response files
	creating 24
	editing 25
	installations 17, 24
0	reviewing log files after installing 31
OCS-15_0 subdirectory 9	<i>RMP-15_0</i> subdirectory 9
operating system	RMS plug-in subdirectory 9
patch requirements 4	
threads, increasing in HP-UX 5	
operating systems	S
requirements 4	3
options file installation. See response file installation	servers
overview	installing a network license server 11
SySAM licensing 2	setting environment variables 16, 33
	LD_LIBRARY_PATH 9
	LIBPATH 10
P	SHLIB_PATH 10
r	Shared subdirectory 9
<i>\$PATH</i> 34	silent mode installations 17, 26
planning replication system 3	troubleshooting 26
post-installation tasks 31	software, diagnosing problems 8
pre-installation tasks 3	source command 34
previous installation	standard installation 16, 20
with InstallShield 20	InstallShield 20
with Studio Installer 20	starting
programs	the sample Replication Server 32
repserver.diag 8	Studio Installer, previous installation with 20
	subdirectories
	charsets 8 config 8
R	5.50
••	interfaces 8 _jvmrep 9
release bulletin 3	_jvmrep 9 locales 8
REP.response template file 24	OCS-15 0 9
REP-15_0 subdirectory 9	REP-15_0 9
Replication Server	RMP-15_0 9
components 1	RMS plug-in 9
details 1	Shared 9
Replication Server Configuration Guide for UNIX 2	SYSAM-2_0 9
Replication Server Installation Guide for UNIX 2	ua 9
repserver.diag program 8	m)

Installation Guide for UNIX

uninstall 9	software components for a 20
supported protocols 4	
<i>\$SYBASE</i> environment variable 34	
Sybase installation directories 15	
contents 8	U
Sybase Software Asset Management System. See SySAM	ua subdirectory 9
sybase user 10, 18	uninstall subdirectory 9
creating accounts 10, 11	uninstalling
<i>SYBASE.csh</i> file 9, 16, 33	console mode 28
SYBASE.env file 9, 33	GUI mode 28
<i>SYBASE.sh</i> file 9, 16, 33	Sybase products 27
<i>\$SYBASE JRE</i> environment variable 34	upgrading
\$SYBASE_OCS environment variable 34	Adaptive Server Enterprise 32
\$SYBASE_REP environment variable 34	using 32
\$SYBASE RMP environment variable 34	InstallShield for installation 15
\$SCROOT environment variable 34	utilities
\$SYBROOT environment variable 34	dsedit 9
\$SYBASE_SYSAM environment variable 34	useum /
\$SYBASE_UA environment variable 34	
syntax statements, conventions ix	
SySAM	V
description 2	valid installation check 26
install 11	
installing a network license server 11	vpd.properties file 9
licensing instruction overview 2	
SYSAM-2_0 subdirectory 9	
system patches	W
listing currently installed 5	••
system requirements 4	-W flag and setup 26
system requirements 4	warnings
	installing into existing Adaptive Server Enterprise
	12.x (64-bit) directory 15
T	
-	
tables	
system requirements 4	
tasks, administration 10	
troubleshooting	
during console or silent mode installation 26	
log.txt 17	
types of installations	
complete installation 16	
custom 16, 20	
full 16	
standard installation 16, 20	
typical 16, 20	
typical installation 16, 20	