SYBASE®

Installation Guide

Replication Server® 15.6

Windows

DOCUMENT ID: DC32236-01-1560-01
LAST REVISED: September 2010
Copyright © 2010 by Sybase, Inc. All rights reserved.
This publication pertains to Sybase software and to any subsequent release until otherwise indicated in new editions or technical notes. Information in this document is subject to change without notice. The software described herein is furnished under a license agreement, and it may be used or copied only in accordance with the terms of that agreement.
To order additional documents, U.S. and Canadian customers should call Customer Fulfillment at (800) 685-8225, fax (617) 229-9845.
Customers in other countries with a U.S. license agreement may contact Customer Fulfillment via the above fax number. All other international customers should contact their Sybase subsidiary or local distributor. Upgrades are provided only at regularly scheduled software release dates. No part of this publication may be reproduced, transmitted, or translated in any form or by any means, electronic, mechanical, manual, optical, or otherwise, without the prior written permission of Sybase, Inc.
Sybase trademarks can be viewed at the Sybase trademarks page at *http://www.sybase.com/detail?id=1011207*. Sybase and the marks listed are trademarks of Sybase, Inc. ® indicates registration in the United States of America.
Java and all Java-based marks are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.
Unicode and the Unicode Logo are registered trademarks of Unicode, Inc.
All other company and product names mentioned may be trademarks of the respective companies with which they are associated.
Use, duplication, or disclosure by the government is subject to the restrictions set forth in subparagraph (c)(1)(ii) of DFARS 52.227-7013 for the DOD and as set forth in FAR 52.227-19(a)-(d) for civilian agencies.
Sybase, Inc., One Sybase Drive, Dublin, CA 94568.

Contents

Conventions **1**
Before You Begin **5**
Replication Server Components 5
Installation Task Overview 5
Preinstallation Tasks 6
Read the Release Bulletin 6
Plan Your Replication System 6
Obtaining a License 6
System Requirements 12
Installation Directory Structure 14
Installation Setup Options 18
Installation Mode 18
Performing Administrative Tasks 19
Replication Server Installation **21**
Installing Replication Server in GUI Mode 21
Installing Replication Server in Console Mode 23
Installing Replication Server Using a Response File 24
Creating a Response File 24
Installing in GUI Mode Using a Response File 25
Installing in Silent Mode 25
Installation Verification 26
Troubleshoot Installation Problems 26
Command Line Options 27
Postinstallation Tasks **29**
Log Files 29
Adaptive Server for the RSSD 29
Sample Replication Server Configuration 30
Server Entries in the sql.ini File 31
Environment Variables on Windows 31
Runserver File 32

Modifying the .bat File for Replication Server Start-Up 32
Replication Server Uninstallation 33
Uninstalling in GUI Mode 33
Uninstalling in Console Mode 34
Uninstalling in Silent Mode 34
Installation and Uninstallation of Replication Manager ...35
Installing Replication Manager in GUI Mode 35
Installing Replication Manager in Console Mode 37
Installing with a Response File 37
Creating a Response File 38
Installing in Silent Mode 38
Installation Verification 39
Replication Manager Uninstallation 40
Uninstalling in GUI Mode 40
Uninstalling in Console Mode 40
Obtaining Help and Additional Information 43
Technical Support 43
Downloading Sybase EBFs and Maintenance Reports ...43
Sybase Product and Component Certifications 44
Creating a MySybase Profile 44
Accessibility Features 44
Index 47

Conventions

Learn about the style and syntax conventions used in Sybase® documentation.

Style conventions

Key	Definition
`monospaced(fixed-width)`	• SQL and program code • Commands to be entered exactly as shown • File names • Directory names
`italic monospaced`	In SQL or program code snippets, placeholders for user-specified values (see example below).
italic	• File and variable names • Cross-references to other topics or documents • In text, placeholders for user-specified values (see example below) • Glossary terms in text
bold san serif	• Command, function, stored procedure, utility, class, and method names • Glossary entries (in the Glossary) • Menu option paths • In numbered task or procedure steps, user-interface (UI) elements that you click, such as buttons, check boxes, icons, and so on

If necessary, an explanation for a placeholder (system- or setup-specific values) follows in text. For example:

Run:

```
installation directory\start.bat
```

where *installation directory* is where the application is installed.

Syntax conventions

Key	Definition
{ }	Curly braces indicate that you must choose at least one of the enclosed options. Do not type the braces when you enter the command.
[ ]	Brackets mean that choosing one or more of the enclosed options is optional. Do not type the brackets when you enter the command.
( )	Parentheses are to be typed as part of the command.
|	The vertical bar means you can select only one of the options shown.
,	The comma means you can choose as many of the options shown as you like, separating your choices with commas that you type 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.

Case-sensitivity

- All command syntax and command examples are shown in lowercase. However, replication command names are not case-sensitive. For example, **RA_CONFIG**, **Ra_Config**, and **ra_config** are equivalent.
- Names of configuration parameters are case-sensitive. For example, **Scan_Sleep_Max** is not the same as **scan_sleep_max**, and the former would be interpreted as an invalid parameter name.
- Database object names are not case-sensitive in replication commands. However, to use a mixed-case object name in a replication command (to match a mixed-case object name in the primary database), delimit the object name with quote characters. For example: **pdb_get_tables** "*TableName*"
- Identifiers and character data may be case-sensitive, depending on the sort order that is in effect.
  - If you are using a case-sensitive sort order, such as “binary,” you must enter identifiers and character data with the correct combination of uppercase and lowercase letters.
  - If you are using a sort order that is not case-sensitive, such as “nocase,” you can enter identifiers and character data with any combination of uppercase or lowercase letters.

Terminology

Replication Agent™ is a generic term used to describe the Replication Agents for Adaptive Server® Enterprise, Oracle, IBM DB2 UDB, and Microsoft SQL Server. The specific names are:

- RepAgent – Replication Agent thread for Adaptive Server Enterprise

- Replication Agent for ODBC – Replication Agent for IBM DB2 UDB and Microsoft SQL Server
- Replication Agent for Oracle – Replication Agent for Oracle

Before You Begin

Before you install or upgrade, prepare your environment.

- Identify the components and options to install or upgrade.
- Obtain a license.

  Note: If you are using served licenses, you must install the SySAM license server version 2.1 or later.
- Make sure your system meets all requirements for your installation scenario and planned use.

See also

- *SySAM License Server* on page 8

Replication Server Components

Along with the Replication Server® software, the product includes several additional components, as well as a variety of support files.

Replication Server includes:

- Replication Server
- Replication Server support files (for example, scripts and configuration files)
- SQL Anywhere® for Embedded Replication Server System Database (ERSSD)
- RepAgent for ERSSD
- Replication Monitoring Services (RMS)

Installation Task Overview

To successfully install and configure Replication Server, use the Replication Server Configuration Guide along with the Installation Guide.

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

The *Replication Server Configuration Guide for Windows* explains how to:

- Gather the information you need to prepare your system for your configuration
- Configure 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

Preinstallation Tasks

Review the preinstallation tasks before installing Replication Server.

Read the Release Bulletin

Obtain the updated information from the release bulletin.

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

The latest release bulletins are available at the Product Documentation Web page at *http://www.sybase.com/support/manuals*.

Plan Your Replication System

Review the requirements of your replication system.

See *Replication Server Configuration Guide for Windows > Preparation for Installing and Configuring Replication Server* for an installation worksheet and a database setup worksheet to help you plan your replication system.

Mixed-Version Support

Replication Server supports mixed-version environments. Replication Server must be version 12.6 and later.

If a replication system domain has Replication Server 15.5 and later, the system version and route versions in the replication system domain must be version 12.6 and later. Replication Server 15.5 does not support mixed-version environments containing versions earlier than 12.6.

See *Replication Server Configuration Guide for your platform > Requirements for Upgrading to Version 15.5 and Later.*

Note: Upgrading from any version earlier than 12.6 requires an intermediate upgrade. See *Replication Server Configuration Guide for your platform > Upgrading or Downgrading Replication Server*.

Obtaining a License

Before installing your product, choose a SySAM license model, determine license server information, and obtain license files.

1. Decide which SySAM license model to use:
   - The unserved license model – obtains licenses directly from the license file. To use an unserved license, save the license to the same machine on which you are installing the Sybase product.
   - The served license model – uses a license server to manage the license allocation to multiple machines.
2. For the served license model, decide whether to use an existing or new license server.

   The license server and your product installation do not need to share the same machine, operating system, or architecture.
3. If you chose the served license model:
   - To install on a machine that is running a SySAM 1.0 license server, follow migration instructions in the *SySAM Users Guide* to migrate to the newer SySAM version.

   Note: There can be only one instance of a SySAM license server running on a given machine. To set up a SySAM 2.0 license server on a machine that is already running a SySAM 1.0 license server, you must migrate the old license server to SySAM 2. A migrated license server can serve licenses for both SySAM 1.0 and SySAM 2-enabled products.
4. Get your host IDs.

   When you generate licenses at the Sybase Product Download Center (SPDC), you must specify the host ID of the machine where the licenses will be deployed.
   - For unserved licenses – it is the host ID of the machine where the product will run. If you are running a product with per-CPU or per-chip licensing that supports SySAM sub-capacity and want to run the product in a virtualized environment, see "SySAM Sub-capacity Licensing" in *SySAM Users Guide* .
   - For served licenses – it is the host ID of the machine where the license server will run.
5. Before installing your product, get license files from SPDC at *https://sybase.subscribenet.com* using SPDC access information you receive from Sybase or your Sybase reseller.

   Log in to SPDC by using the information in your SPDC welcome e-mail message.

   Note: If you purchased your Sybase software from a Sybase reseller, you receive a Web key rather than an e-mail message.

   If you plan to use sub-capacity licensing, see *SySAM Users Guide* for information on how to configure using the **sysamcap** utility.

   For more information on SySAM licensing, see the *SySAM Users Guide*.

SySAM License Server

Learn about the required SySAM license server version to install.

- License server version

  You must install the SySAM license server version 2.1 or later. To determine the current license server version, use the **sysam version** command.

  Note: License server version 2.0 and earlier do not include this command.

  Download the latest license server from the SySAM License Server and Utilities Install Web site at *http://www.sybase.com/sysam/server*.
- FLEXnet Publisher version

  Replication Server 15.5 and later are linked with the FLEXnet Publisher version, which is platform-specific.

Table 1. FLEXnet Publisher Versions Supported on Windows Platforms

Platforms	FLEXnet Publisher Version
Windows (32-bit)	11.6.1
Windows (64-bit)	11.5

If you use a SySAM license server, you must update the SySAM license server to at least version 2.1, which includes the FLEXnet Publisher version 11.6.1 license server components on all platforms, before installing Replication Server 15.6. To check the version of your license server, examine the license server log or execute:

```
cd %SYBASE%\SYSAM-2_0\bin
lmutil lmver lmgrd
```

IPv6 Configuration

Use the **sysam configure** command to choose the version of the license server based on your environment.

Replication Server includes IPv4 and IPv6 versions of the SySAM license server software. By default, the installer configures SySAM for IPv4 support.

The IPv4 version of the license server cannot be used properly if you have enabled IPv6 on the license server host. If this is the case you can:

- Disable IPv6 TCP/IP protocol on the license server host.
- Use another Windows host that does not have IPv6 enabled.
- Use a UNIX host for the license server. You can use the IPv4 version of the license even if both IPv4 and IPv6 are enabled on UNIX.

If you are using the IPv6 version of the license server on a Windows host, then this license server can be accessed only through IPv6 protocol. Any host with an IPv4 only network stack will not be able to obtain licenses from this IPv6 license server. To resolve this issue:

- Use a UNIX host for the license server. License servers on UNIX can serve licenses to both IPv4 and IPv6 client hosts.
- Use two separate Windows machines. Set up two license servers on two different hosts in the network; one to serve the IPv4 network and the other one to serve the IPv6 network.

You can use the SySAM script to configure the appropriate version of the license server:

```
sysam configure [IPv6|IPv4]
```

For example, this command configures use of the IPv4/IPv6 dual stack binaries:

```
sysam configure IPv6
```

SySAM Licensing Checkout

If Replication Server was licensed using a per-processor license type in versions earlier than 15.6, the license quantity was determined at start-up.

Replication Server periodically checks the number of processors it can use and attempts to check out additional licenses for any increase. Replication Server shuts down after a 30-day grace period expires if additional licenses are not made available within this period.

See the *SySAM Users Guide*.

Replication Server 15.6 Product Editions and Licenses

Replication Server 15.6 is released as two separate product editions—Enterprise Edition (EE) and Real-Time Loading Edition (RTLE) — that comprise different base and optional features, and which require separate licences.

Changes in RTLE for Replication Server 15.6

You can replicate from Oracle to Sybase IQ with Replication Server 15.6. Besides Replication Server, RTLE includes Replication Agent for Oracle to allow you to connect to an Oracle primary data server. The documentation for RTLE includes Replication Server Options product documentation in addition to Replication Server product documentation.

Table 2. Enterprise Edition Features and Licenses

Feature Type	Features	Description	License
Base	Replication Server	Replication Server features, excluding Advanced Services Option, ExpressConnect for Oracle, and real-time loading.	REP_SERVER
Optional	Advanced Services Option	Replication Server performance enhancements.	REP_HVAR_ASE

Feature Type	Features	Description	License
	ExpressConnect for Oracle	Provides Replication Server with the capability to connect directly to Oracle. See the Replication Server Options 15.5 product documentation.	REP_EC_ORA

Table 3. Real-Time Loading Edition Features and Licenses

Feature Type	Features	Description	License
Base	Replication Server	Replication Server features, excluding Advanced Services Option, ExpressConnect for Oracle, and real-time loading.	REP_SERVER
	Real-Time Loading (RTL)	Allows replication to Sybase IQ from Adaptive Server and Oracle. **Note:** You cannot use the Real-Time Loading Edition to replicate to Adaptive Server or Oracle.	REP_RTL_IQ
	Advanced Services Option	Replication Server performance enhancements.	REP_HVAR_ASE
	Replication Agent for Oracle.	Includes Replication Agent for Oracle to connect to Oracle as a primary data server.	RTLE includes a license for Replication Server Options.
Optional	None		

Replication Server — Advanced Services Option

The Advanced Services Option, which is a separately licensed product option, includes several performance enhancements.

- High Volume Adaptive Replication (HVAR)
- Enhanced Data Server Interface (DSI) efficiency
- Enhanced RepAgent executor thread efficiency
- Enhanced distributor thread read efficiency
- Enhanced memory allocation
- Increasing queue block size

Sub-capacity Licensing

Sybase now offers sub-capacity licensing, which lets you license Sybase products on a subset of the CPUs available on a physical machine.

Platform Support

Table 4. SySAM Virtualization Sub-capacity Compatibility

Vendor	Product	Platform Support	Virtualization Type
HP	nPar	HP IA 11.31	Physical partition
	vPar		Virtual partition
	Integrity Virtual Machines with Resource Manager		Virtual machine
	Secure Resource Partitions		OS containers
IBM	LPAR	AIX 6.1	Virtual partition
	dLPAR		Virtual partition
Sun	Dynamic System Domains	Solaris 10	Physical partition
	Solaris Containers/Zones with Solaris Resource Manager		OS partition
Intel, AMD	VMWare ESX Server* Guest OS: Windows	VMWare ESX 3.5, Guest OS: Windows 2003, RH 5.3, SuSe 10	Virtual machine
	VMWare ESX Server Guest OS: Linux	VMWare ESX 3.5, Guest OS: Windows 2003, RH 5.3, SuSe 10	Virtual machine
	Xen,** DomainU: Windows	Windows 2003	Virtual machine
	Xen, DomainU: Linux	RH 5.3, SuSe 10	Virtual machine

* VMWare ESX Server excludes Sun Solaris x64, VMWare Workstation, and VMWare Server.

** Xen excludes Sun Solaris x64.

Enabling Sybase Sub-capacity Licensing

You must have a sub-capacity licensing agreement with Sybase before you can enable sub-capacity licensing. As with other Sybase licenses, you must generate a license key. For specific steps, see the *SySAM Quick Start Guide*.

Note: Keep your license server up-to-date.

Although the installation media include a copy of the most recent SySAM license server, Sybase recommends that you periodically check for license server updates on the SySAM Standalone License Servers Web site at *http://www.sybase.com/sysam/server*.

System Requirements

Check the system requirements and system patches for the server on which you will install Replication Server.

System Requirements for Replication Server on Windows Platforms

Verify that you are running a supported operating system and that you have sufficient space available to set up and run the sample Replication Server on Windows.

Table 5. System Requirements for Replication Server on Windows Platforms

Item	Requirement
CPU	A Pentium processor.
RAM	A minimum of 512MB RAM.

Item	Requirement
Disk storage	A minimum of 580MB of available hard disk space: • 450MB for the Replication Server software, supporting files, and log files. • 20MB for each Replication Server disk partition. The disk partition may be on a different disk than your Sybase software. • 30MB for temporary usage during installation. One of: • 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 (ERSSD). See your Adaptive Server Enterprise documentation for system requirements. • 80MB for your SQL 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 system	One of: • Windows XP Professional, Service Pack 2 or later • Windows 2003 R2, Service Pack 2 or later • Windows Vista Enterprise, Service Pack 1 • Windows Vista Business, Service Pack 1 • Windows Server 2008 R2 • Windows 7 Before you start the installation, install the relevant Microsoft Visual Studio 2005 patch for your x86 or x64 Windows platform. See Microsoft Visual C++ 2005 Service Pack 1 Redistributable Package ATL Security Update at *http://www.microsoft.com/downloads/details.aspx?familyid=766a6af7-ec73-40ff-b072-9112bab119c2&displaylang=en*
Additional hardware	A minimum of 32-bit network card for better performance.
Supported protocols	TCP/IP, IPX/SPX, Microsoft Named Pipes.

Operating System Patch Requirements

Check if your operating system is installed with the latest patch level before installing Replication Server.

If your operating system requires a service pack, install it before you install Replication Server. Contact your operating system representative for a complete list of service packs, or check the latest Replication Server release bulletin for your platform. First, you must determine which service pack operating system level and build number are installed on the system.

Note: Do not use a service pack that is earlier than the version suggested for your operating system. If a service pack has been superseded by a newer service pack, use the newer service pack.

Determining Service Pack on Windows Platforms

Determine the current service pack system level and build number on Windows.

1. Select **Start** > **Programs** > **Accessories** > **Windows Explorer**.
2. Select the **Help** menu, and click **About Windows**.
3. Find the Service Pack number on the Version line.

   In the following example, *xxxx* is the build number and *n* is the service pack number:

   ```
   Version 5.0 (Build xxxx: Service Pack n)
   ```

Installation Directory Structure

Learn about the Replication Server installation directory and the subdirectories into which components are installed.

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 Client™ and Open Server™), and the software release version, such as 15_6.

Replication Server 15.6 includes a new version of Replication Server and many of its supporting components. Other Sybase products may contain earlier versions of the same components. You can install Replication Server 15.6 into the same directory containing these existing products.

However, if you are using other Sybase products, installing Replication Server 15.6 may cause some environment variables to change. Reset the environment variables to make individual products work.

Note: You can install Replication Server 15.6 in the same directory as Adaptive Server Enterprise and Open Client and Open Server versions 12.5.1 or later.

Sybase recommends that you do not uninstall Replication Server 15.6 if it has been installed in the same directory as older Sybase products that have a version number lower than 15.5, otherwise, these products may not work correctly.

You can install Replication Server 15.6 on top of Replication Server 12.6 and later, in the same %SYBASE% directory. Doing so creates a duplicate entry in the `sql.ini` file for SAMPLE_RS, which is the sample Replication Server. **rs_init** warns you about the duplicate entry and uses the first instance of SAMPLE_RS found in the `sql.ini` file.

Constraints

Do not install Replication Server version 15.6 on top of these Sybase products:

- Replication Server version 12.5 or earlier
- Adaptive Server version 12.5.0.*x* or earlier
- Adaptive Server version 12.*x* (64-bit)
- Open Client and Open Server version 12.5.0 or earlier
- OpenSwitch™ version 12.5 or earlier
- DirectConnect™ version 12.5 or earlier

Doing so incapacitates older versions of these products, and may 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 15.6. For this reason, Sybase recommends that you back up your current directory before installing Replication Server version 15.6.

Note: If you are installing Replication Server 15.6 in an existing Sybase installation directory that contains Adaptive Server version 15.0.*x*, 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_5. However, Open Client is installed in %SYBASE%\OCS-15_0. The exception is SQL Anywhere, which is installed in %SYBASE%\REP-15_5\ASA11, because 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% subdirectories, change them to reflect the new installation directory structure.

A diagnostic server (REP-15_5\bin\drepsrvr.exe) 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 from what is documented, depending on the components you install.

Installing Replication Server in a Unique Directory on Windows

Installing Replication Server in a unique directory might reset environment variables for other Sybase products and produce unpredictable results.

1. Terminate all Sybase processes running on the system on which you are installing Replication Server, including SySAM.

   Note: If you do not know which processes are running, contact your system administrator.

   To stop SySAM license server, see *SySAM Users Guide*.
2. If you have an existing Adaptive Server that runs as a Windows service, disable the service.
   a) Click **Start > Settings > Control Panel > Administrative Tools > Services**.
   b) In the Services list, right-click the **Sybase SQLServer** *server name*.
   c) Select **Properties**.
   d) Set Startup Type to Disabled.
   e) Close the Services window.
3. Record the current environment variable settings in a file called `env.orig` by entering:

   ```
   set > env.orig
   ```

   You can read this file with a text editor.

   Specifically, record the current values of:

   - INCLUDE
   - LIB
   - LM_LICENSE_FILE
   - PATH
   - SYBASE
   - SYBASE_JRE
4. Insert the Replication Server media in the appropriate drive, or download and extract the Replication Server installation image from the Sybase Product Download Center (SPDC).
5. Install Replication Server.
6. Specify a unique directory for the Replication Server product.
7. Specify the host name and port number of the license server.
8. Change the environment variables to the original settings that you recorded in step 3:
   a) Select **Start > Settings > Control Panel > System**.
   b) Click the **Advanced** tab.
   c) Select **Environment Variables**.

d) Under System Variables, change the values of the variables listed in step 3.

9. Configure Adaptive Server to start automatically:

a) Select **Start > Settings > Control Panel > Administrative Tools > Services**.
b) In the Services list, right-click the **Sybase SQLServer** *server name*.
c) Click **Properties**.
d) Set Startup Type to Automatic.

10. Restart your system.

Note: When you install Replication Server in a unique installation directory, you must maintain two `sql.ini` files. One `sql.ini file` is required for Replication Server components and another for your other Sybase applications.

See also

- *Environment Variables on Windows* on page 31
- *Installing Replication Server in GUI Mode* on page 21

Installation Directory Contents and Layout

Check the list of Replication Server components that are installed in the Sybase installation directory on your machine.

Within %SYBASE%:

- `charsets` – character sets and sort order.
- `collate` – Unicode.
- `ini` – initialization files, including `mnemonic.dat`, `objectid.dat`, `sql.ini`, and `trusted.txt`.
- `jre32` – files used by the installer on the 32-bit platform.
- `jre64` – files used by the installer on the 64-bit platform.
- `locales` – localization files for Open Client and Open Server, and other components used by Replication Server. Does not include Replication Server specific localization files.
- `log` – log files of the installation process.
- `OCS-15_0` – Open Client and Open Server directories and files, including `bin`, `dll`, `include`, `ini`, `lib`, `lib3p`, `sample`, and `scripts`.
- `REP-15_5` – Replication Server 15.6 files, including `ASA11`, `bin`, `certificates`, `devlib` (32-bit platforms), `devlib64` (64-bit platforms), `doc`, `init`, `install`, `lib` (32-bit platforms), `lib64` (64-bit platforms), `lib3p` (32-bit platforms), `lib3p64` (64-bit platforms), `locales`, `REFIMP-01_0`, `samp_repserver`, `scripts`, `sysam`, `ThirdPartyLegal`, and `upgrade`.
- `Shared` – common components shared across products, including the Java runtime environment and files and directories for Unified Agent Framework 2.5.

- `Sybase_Install_Registry` – used for storing Sybase product registry information to keep track of version of installed and uninstalled software. The `si_reg.xml` file gets installed in the `%SYBASE%\Sybase_Install_Registry` directory.

  Warning! Do not modify or remove `si_reg.xml`. Modifying or removing this file prevents the installer from accurately managing installed component versions when you install or uninstall Sybase software subsequent to this installation.
- `sybuninstall` – files used by the uninstaller to uninstall Replication Server software.
- `SYSAM-2_0` – software license manager files including `bin`, `licenses`, `locales`, and `log`.
- `UAF-2_5` – the Unified Agent Framework files for the Replication Monitoring Services (RMS), including `bin`, `common`, `conf`, `ldap`, `log`, `plugins`, `rtlib`, `server`, `services`, `thirdparty`, and `utility`.
- `SYBASE.bat`, `SYBASE.env` – files created by the installer that you use to reset environment variables.

Installation Setup Options

Learn about the Replication Server installation option that is appropriate for your setup. Typical is the default option.

The Replication Server **setup** program provides these installation options:

- 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 installation media. 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.

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

Installation Mode

Decide which installation mode you want to use. GUI mode is the default option.

You can install Replication Server using:

- Graphical user interface (GUI) – lets you install the components in an interactive user mode.
- 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.
- Interactive installation using response file – lets you install interactively 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.

Performing Administrative Tasks

Complete the administrative tasks before you begin the installation process.

1. Back up your current replication system.
2. Log in using an account with Windows administrator privileges
3. Close any open applications or utilities, including currently installed Sybase components, to free disk space and system resources.
4. Verify that the installation directory does not have a space in the directory name.

Replication Server Installation

Install Replication Server using GUI mode (recommended), console mode, or silent mode.

Installing Replication Server in GUI Mode

The installer creates the target directory and installs the selected components into that directory.

1. Verify that the drive on which you install the Replication Server has enough disk space for the components being installed, and at least 100MB of extra disk space for the installation program.
2. Insert the Replication Server media in the appropriate drive, or download and extract the Replication Server installation image from the Sybase Product Download Center (SPDC).
3. Launch the **setup** program.

   Note: If the installer does not start automatically, double-click `setup.exe` or select **Start** > **Run** and enter the following, where *x*: is your CD drive:

   ```
   x:\setup.exe
   ```

   If there is not enough disk space in the temporary disk space directory, set the environment variable TMP to *directory_name* before running it again, where *directory_name* is the name of the temporary directory to which the installation program writes the temporary installation files. When specifying the *directory_name*, include its full path.
4. In the Introduction window, click **Next**.
5. Indicate where to install Replication Server:
   - To select an installation directory, click **Choose**. A window appears, and from that window browse for and select the directory.
   - To create a new directory, enter a new directory path.
   - To restore to the default directory if you do not want to use the directory that you have entered, click **Restore Default Folder**.

   One of these occurs:

   - If the installation directory you chose does not exist, you see:

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

     Click **Yes**.
   - If the installation directory you selected exists, and already contains an Replication Server installation, you see:

     ```
     Warning: You have chosen to install into an existing directory.
     If you proceed with this installation, any older
     ```

```
versions of the products you choose to install
that are detected in this directory will be replaced.
```

Click **Next**.

6. Select the type of installation:
   - **Typical** – installs the default components. This is recommended for most users.
   - **Full** – installs every Replication Server component, including all the supported language modules.
   - **Custom** – lets you select the components to install. Some components are automatically installed if they are required to run your selected components.

   Click **Next**.
7. Read the License and Copyright Agreement:
   a) Select the geographic location from where you are installing to display the agreement for your region.
   b) Select **I agree to the terms of the Sybase license for the install location specified.** You must agree to the license and copyright agreement before you can continue with the installation.
   c) Click **Next**.
8. On the Sybase Software Asset Management License Server window, select one of:
   - **Specify License Keys** – click **Browse** to select the license file. To select multiple license files, use **Shift+Click** or **Ctrl+Click**. The license pane displays the license information.

     Alternatively, copy and paste the license information directly in the license pane. Click **Next**.

     If you specify a served license key, the installer prompts you to install a new SySAM license server. Click one of:
     - **Next** – to install the new SySAM license server and follow the installation prompts.
     - **Previous** – and select **Use previously deployed license server** if you have an existing SySAM license server on the same host.
   - **Use Previously Deployed License Server** – if you have a previously deployed license server, enter the host name of the machine where the license server is running, and the port number if the port number you are using is not default. Click **Next**.
   - **Continue installation without a license key** – if you do not have licenses for any of the Replication Server components, you can select this option, and click **Next** to proceed. The installer allows you to install and use the Replication Server components without a license for a grace period of 30 days. To continue using these components after the end of the grace period, obtain valid licenses from the SPDC, and install these licenses using the Replication Server License Installer.

   See the *SySAM Users Guide*.
9. Configuring your server for e-mail notification enables designated users to receive information about license management events requiring attention.

Provide:

- SMTP server host name
- SMTP server port number
- E-mail return address
- Recipient e-mail addresses
- Message severity that triggers e-mail messages

Click **Next**.

10. The installation summary window displays the selections you have made. Review the information, and click **Install**.
11. On the Start Sample Replication Server window, select:
    - **Yes** – to configure and start a sample Replication Server. The installer displays the configuration information for the sample Replication Server. Write this information down.
    - **No** – to complete the installation and manually configure a full-featured Replication Server.

      If you select **No**, you can configure and start a sample Replication Server after installation.

      Click **Next**.
12. If you chose to configure and start a sample Replication Server, the installer proceeds to configure and start the sample Replication Server.

    Click **Next** when done.
13. When the final window appears, indicating a successful installation, click **Done** to exit the installer.

See also

- *Installation Verification* on page 26
- *Postinstallation Tasks* on page 29
- *Runserver File* on page 32

Installing Replication Server in Console Mode

Choose command line installation if you prefer a non-windowing interface or for developing custom installation scripts.

Prerequisites

Launch the installer in console mode. If the installer launches automatically, click **Cancel** to cancel the GUI installation, then launch the **setup** program from a terminal or console.

The steps for installing components in an interactive text mode are the same as those described in installing in GUI mode, except you use **setup -i console** to execute the installer from the command line, and you enter text to select installation options.

Task

1. At the command prompt, enter:

   ```
   x:\setupConsole.exe -i console
   ```

   where *x* is the location of the installer
2. The flow of the installation is identical to a GUI installation, except output is written to a terminal window and responses are entered using the keyboard. Follow the remaining prompts to install Replication Server.

See also

- *Installing Replication Server in GUI Mode* on page 21

Installing Replication Server Using a Response File

Unattended or silent installations are typically used for updating multiple systems across the enterprise.

To perform a silent, or "unattended" installation, run the installer and provide a response file that contains your preferred installation configuration.

Creating a Response File

Record installation responses into a response file, which is a text file that you can edit to change any responses before using it in subsequent installations.

To create a response file when installing in GUI or console mode, specify the **-r** command line argument. The **-r** argument records your responses to the installation wizard's prompts and creates a response file when the installation wizard exits.

To generate a response file during installation, enter:

```
x:\setupConsole.exe -r responseFileName
```

where *responseFileName* is the file name you choose for the response file and *x* is the location of the installer. When specifying the response file name, include its full path. For example:

```
C:\Sybase\REP\ResponseFile.txt
```

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

Installing in GUI Mode Using a Response File

Unattended or silent installations are typically used for updating multiple systems across the enterprise.

Prerequisites

Create an installation response file.

An interactive installation using a response file lets you either accept the default values supplied by the response file or enter different values. This is useful when installing multiple instances of Replication Server that have similar but not identical settings.

Task

To run the GUI installation using the response file, enter:

```
x:\setupConsole.exe -f responseFileName
```

where *responseFileName* is the file name containing the installation options you choose, and *x* is the location of the installer. When specifying the response file name, include its full path.

See also

- *Command Line Options* on page 27
- *Creating a Response File* on page 24
- *Installing Replication Server in GUI Mode* on page 21

Installing in Silent Mode

Unattended or silent installations are typically used for updating multiple systems across the enterprise.

Prerequisites

Create an installation response file.

A silent or unattended installation does not involve user interaction; and all installation configuration information is taken from the response file. This is useful when you want multiple identical installations, or a fully automated installation.

Task

To install in silent mode, run:

```
x:\setupConsole.exe -f responseFileName -i silent
-DAGREE_TO_SYBASE_LICENSE=true
```

where:

- *x* – is the location of the installer.
- *responseFileName* – is the absolute path of the file name containing the installation options you chose.
- **-D** – specifies that you agree with the Sybase License Agreement text.

Warning! When running in silent installation mode, Sybase recommends that you use `setupConsole.exe`. The normal `setup.exe` runs the installation program in the background, and gives the impression that the installation has terminated immediately. This results in additional installation attempts. Multiple installations at the same time can corrupt the Windows Registry and lead to an operating system restart failure.

Except for the absence of the GUI screens, all actions of the installer are the same, and the result of an installation in silent mode is exactly the same as one performed in GUI mode with the same responses.

Note: You must agree to the Sybase License Agreement when installing in silent mode. You can either:

- Include the option `-DAGREE_TO_SYBASE_LICENSE=true` in the command line argument.
- Edit the response file to include the property `AGREE_TO_SYBASE_LICENSE=true`.

See also

- *Command Line Options* on page 27
- *Creating a Response File* on page 24
- *Installing Replication Server in GUI Mode* on page 21

Installation Verification

Verify that the installation is valid and successful.

1. View the logs files in `%SYBASE%\log` directory to check for errors. A valid installation does not contain the word "error."
2. Check that the date of the `si_reg.xml` file reflects the date of this current installation.

Troubleshoot Installation Problems

Set the installer to debug mode to troubleshoot problems encountered during installation.

While starting the installer, press the Ctrl key until a console window appears. The installer then generates additional detailed installation information that is useful for debugging installer issues.

Note: If you encounter errors during installation using any installation mode, check the installation log file to see a record of the installation process. The log file is located in `%SYBASE%\log`.

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

Command Line Options

The command line options you can use when installing or uninstalling Replication Server in console mode.

Table 6. Command Line Options

Option	Purpose
-i swing	Uses GUI mode.
-i console	Uses the console **interface** mode, where messages during installation appear on the Java console and the wizard is run in console mode.
-i silent	Installs or uninstalls the product in silent mode, where the installation or uninstallation is performed with no user interaction and the installation is "silent."
-D	Passes custom variables and properties. For example, to override the default installation directory when you run the installer, enter: `install_launcher_name -DUSER_INSTALL_DIR=E:\Sybase`
-r	Generates a response file and a reference.
-f	References response files.
-l	Sets the installer's locales.
-\?	Displays the installer help.

Postinstallation Tasks

After installing Replication Server, perform the postinstallation tasks necessary for your site.

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

Log Files

Check the information about the configuration of Replication Server that is stored in the log files.

- Replication Server installer error log file:
  `%SYBASE%\log`
- Sample Replication Server error logs:
  `%SYBASE%\REP-15_5\SAMPLE_RS.log`
- Sample Replication Server SQL Anywhere error logs:
  `%SYBASE%\REP-15_5\samp_repserver\errorlog`
- **rs_init** log file:
  `%SYBASE%\REP-15_5\init\logs\`*`logmmdd.xxx`*
  For example: `%SYBASE%\REP-15_5\init\logs\`*`log1106.001`*
- Replication Server log file:
  `%SYBASE%\REP-15_5\install\rs_name.log`
  For example: `%SYBASE%\REP-15_5\install\`*`REP_redtail.log`*

Adaptive Server for the RSSD

Learn how to start the RSSD stored on Adaptive Server.

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

After successful installation, start Adaptive Server Enterprise. See the *Adaptive Server Enterprise Configuration Guide* for your platform.

Note: If you are upgrading Adaptive Server Enterprise and you have replicated databases, see the *Adaptive Server Enterprise Installation Guide* for your platform.

Sample Replication Server Configuration

If you have not configured the sample Replication Server during installation, you can use the resource file created by the installer to configure and start the sample Replication Server.

During installation, the installer prompts you to configure and start a sample Replication Server. Regardless of your choice, the installer creates a resource file, `%SYBASE%\REP-15_5\samp_repserver\SAMPLE_RS.res`, for the sample Replication Server and updates the `sql.ini` file. Use this resource file to configure and start the sample Replication Server after installation. The sample Replication Server resource file will create an ERSSD.

At the command prompt, enter:

```
cd %SYBASE%\REP-15_5\samp_repserver
rs_init-SAMPLE_RS.bat
```

A setup window shows configuration status. The **rs_init** utility in this script displays commands in a DOS window as it executes them, and writes any 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_5\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.

All files and logs associated with the sample Replication Server are in `%SYBASE%\REP-15_5\samp_repserver`.

Table 7. 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*

See the *Replication Server Configuration Guide for Windows > Configure Replication Server and Add Databases Using rs_init*.

Server Entries in the sql.ini File

Use **dsedit** that comes with Replication Server installation to modify network connection information.

If either the primary or the replicate Adaptive Server is not on the Replication Server machine, you must change the default host name "localhost" in the Replication Server `sql.ini` file to the actual server name. Use **dsedit** to update `sql.ini` file.

The **dsedit** creates and modifies network connection information in the `sql.ini` file. The utility is located in `%SYBASE%\%SYBASE_OCS%\bin`.

Execute `SYBASE.bat` to set the required environment variables before executing `dsedit`.

For more information about **dsedit**, see the *Adaptive Server Enterprise Utility Guide*.

Environment Variables on Windows

The Replication Server installer automatically sets the required system environment variables, such as PATH, as well as additional environment variables used by your newly installed Sybase software.

The environment variables are in these files:

- `%SYBASE%\SYBASE.bat`
- `%SYBASE%\SYBASE.env`

After exiting the Replication Server installer, you can reset the environment variables using these files, if needed.

Table 8. Environment Variables for Windows

Environment Variable	Description
%LIB%	Subdirectory path to the Open Client and Open Server run-time shared library
%PATH%	Includes directories that are needed to execute Replication Server (such as Replication Server executables and OCS libraries)
%SYBASE%	Home directory where you install all Sybase products

Environment Variable	Description
%SYBASE_JRE6%	Subdirectory path to where the Java Runtime Environment (JRE) resides
%SYBASE_JRE6_32%	Subdirectory path to where the Java Runtime Environment (JRE) resides
%SYBASE_OCS%	Subdirectory path to Open Client files
%SYBASE_REP%	Subdirectory path to Replication Server
%SYBASE_UA%	Subdirectory path to the Unified Agent Framework and Replication Monitoring Services

Runserver File

You can start a Replication Server using the runserver file created by `rs_init` in the Sybase installation directory. The runserver file is an executable script that contains the complete command line required to start a Replication Server.

See the *Replication Server Configuration Guide for Windows > Start or Stop a Replication Server*.

Modifying the .bat File for Replication Server Start-Up

Replication Server start-up requires a batch file that you can execute the commands to start Replication Server. You may have to modify this file to work in your environment.

To modify a `.bat` file for Replication Server:

Insert the contents of the *x*`:\InstallDirectory\SYBASE.bat` file at the beginning of the *x*`:\InstallDirectory\REP-15_5\repserverdir \RUN_servername.bat` file, where:

- *x* is the drive name.
- *`InstallDirectory`* is the name of the installation directory.
- *`repserverdir`* is the name of your RepServer directory.
- *servername* is the name of your Replication Server.

When you execute the `.bat` files, you set all environment variables for Replication Server to the unique Replication Server product directory.

Replication Server Uninstallation

Learn about the prerequisites before uninstalling Replication Server.

- Log on to your machine using an account with administrator privileges.
- Shut down all Sybase applications and processes.
- Determine the mode of uninstallation—GUI (recommended) or silent mode.

Note: The uninstaller 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. `jre` and other installed directories are also not removed by the uninstaller. You must manually remove these directories.

Uninstalling in GUI Mode

Uninstall Replication Server in GUI mode.

1. Choose one of:
   - Select **Start** > **Settings** > **Control Panel** > **Add or Remove Programs**.
   - From the command line, enter:
     ```
     %SYBASE%\sybuninstall\RepServer_Suite\uninstall.exe
     ```
   - Click **Start** > **Run** and enter:
     ```
     %SYBASE%\sybuninstall\RepServer_Suite\uninstall.exe
     ```
   - Open Windows Explorer, and navigate to `%SYBASE%\sybuninstall\RepServer_Suite`, and double-click `uninstall.exe`.
2. Click **Next**.
3. Select one of:
   - **Complete Uninstall** – completely remove all features and components of Replication Server. The files and folders created after the installation are not affected.
   - **Uninstall Specific Features** – uninstall specific features of Replication Server.

   Click **Next**.
4. The uninstallation summary window displays the selections you have made. Review the information, and click **Next**.

   Note: If you installed SySAM during installation, this window shows SySAM license utility. Sybase recommends that you do not uninstall the SySAM license utility if you are using a SySAM license server.

   The Uninstall Complete window lists the items that cannot be removed.

5. Click **Done** to exit from the installer.

Uninstalling in Console Mode

Uninstall Replication Server in console mode.

1. At the command prompt, navigate to the installation directory and enter:

   ```
   %SYBASE%\sybuninstall\RepServer_Suite\uninstall.exe -i
   console
   ```

   The **uninstall** program starts.
2. The flow of the **uninstall** program is identical to a regular GUI uninstallation, except output is written to a terminal window and responses are entered using the keyboard. Follow the remaining prompts to uninstall Replication Server.

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

See also

- *Command Line Options* on page 27
- *Uninstalling in GUI Mode* on page 33

Uninstalling in Silent Mode

Uninstall Replication Server in silent mode.

At the command prompt, navigate to the installation directory and enter:

```
%SYBASE%\sybuninstall\RepServer_Suite\uninstall.exe -i silent
```

The **uninstall** program starts.

Note: You may be prompted to decide whether to remove files that are created outside the installer. Sybase recommends that you do not remove these files.

See also

- *Command Line Options* on page 27
- *Uninstalling in GUI Mode* on page 33

Installation and Uninstallation of Replication Manager

There are several different methods available for setting up and uninstalling Replication Manager; however, Sybase recommends that you use GUI mode.

Replication Manager is a utility for creating, managing, and monitoring replication environments, and is available as a plug-in to Sybase Central™, Java Edition. Replication Manager communicates directly with Replication Server and Adaptive Server Enterprise servers.

Depending on the scale and complexity of your replication environment, you can set up either a two-tier or a three-tier solution. In a two-tier management solution, Replication Manager connects directly to the servers without communicating through the management layer.

In a three-tier management solution, Replication Manager monitors large and complex replication environments with the help of Replication Monitoring Services (RMS). Replication Manager connects to the servers through RMS.

Replication Manager:

- Uses a graphical user interface.
- Allows you to manage, monitor, and troubleshoot replication system components, such as connections, routes, replication definitions, subscriptions, and so forth.
- Runs on Microsoft Windows operating systems as well as all UNIX operating systems that Replication Server supports.
- Runs within the same Sybase Central framework as the Adaptive Server plug-in.
- Manages a warm standby environment.
- Supports multisite availability (MSA).
- Supports an ERSSD.
- Provides for logging and tracing of server commands.
- Provides two-tier and three-tier management solutions by supporting RMS.

See Chapter 3, “Managing Replication Server with Sybase Central” in the *Replication Server Administration Guide Volume 1* .

Installing Replication Manager in GUI Mode

The installer creates the target directory and installs the selected components into that directory.

1. Launch the installer.

- On Windows (32-bit):

  ```
  \nt386\RMP_Suite\setupwin32.exe
  ```

  If the installer does not start automatically, select **Start > Run**, and enter the following, where *x*: is location of the installed image:

  ```
  x:\nt386\RMP_Suite\setupwin32.exe
  ```

- On Windows (64-bit):

  ```
  \winx64\RMP_Suite\setupwin64.exe
  ```

  If the installer does not start automatically, select **Start > Run**, and enter the following, where *x:* is location of the installed image:

  ```
  x:\winx64\RMP_Suite\setupwin64.exe
  ```

2. In the Introduction window, click **Next**.
3. Read the License and Copyright Agreement:
   a) Select the geographic location from where you are installing to display the agreement for your region.
   b) Select **I agree to the terms of the Sybase license for the install location specified**. You must agree to the license and copyright agreement before you can continue with the installation.
   c) Click **Next**.
4. Indicate where to install Replication Manager:
   - To select an installation directory, click **Choose**. A window appears, and from that window browse for and select the directory.
   - To create a new directory, enter a new directory path.
   - To restore to the default directory if you do not want to use the directory that you have entered, click **Restore Default Folder**.

   One of these occurs:

   - If the installation directory you chose does not exist, this message appears:

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

     Click **Yes**.
   - If the installation directory you selected exists, and contains a prior installation, this message appears:

     ```
     Warning: You have chosen to install into an existing directory.
     If you proceed with this installation, any older
     versions of the products you choose to install
     that are detected in this directory will be replaced.
     ```

     Click **Next**.
5. The installation summary window displays the selections you have made. Review the information, and click **Install**.

6. When the final window appears, indicating a successful installation, click **Done** to exit the installer.

Installing Replication Manager in Console Mode

Choose command line installation if you prefer a non-windowing interface or for developing custom installation scripts.

Prerequisites

Launch the installer in console mode. If the installer launches automatically, click **Cancel** to cancel the GUI installation, then launch the **setup** program from a terminal or console.

The steps for installing components in an interactive text mode are the same as those described in installing in GUI mode, except you use **setup -i console** to execute the installer from the command line, and you enter text to select installation options.

Task

1. At the command prompt, enter:
   - On Windows (32-bit):
     ```
     \nt386\RMP_Suite\setupconsole32.exe -i console
     ```
   - On Windows (64-bit):
     ```
     \winx64\RMP_Suite\setupconsole64.exe -i console
     ```
2. The flow of the installation is identical to a GUI installation, except output is written to a terminal window and responses are entered using the keyboard. Follow the remaining prompts to install Replication Manager.

See also

- *Command Line Options* on page 27
- *Installing Replication Manager in GUI Mode* on page 35

Installing with a Response File

Unattended or silent installations are typically used for updating multiple systems across the enterprise.

To perform a silent, or “unattended” installation, run the installer and provide a response file that contains your preferred installation configuration.

Creating a Response File

Record installation responses into a response file, which is a text file that you can edit to change any responses before using it in subsequent installations.

To create a response file when installing in GUI or console mode, specify the **-r** command line argument. The **-r** argument records your responses to the installation wizard's prompts and creates a response file when the installation wizard exits.

To generate a response file during installation, enter:

- On Windows (32-bit):
  ```
  \nt386\RMP_Suite\setupconsole32.exe -r responseFileName
  ```
- On Windows (64-bit):
  ```
  \winx64\RMP_Suite\setupconsole64.exe -r responseFileName
  ```

where *responseFileName* is the file name you choose for the response file. When specifying the response file name, include its full path. For example:

```
C:\Sybase\RMP\ResponseFile.txt
```

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

Installing in Silent Mode

Unattended or silent installations are typically used for updating multiple systems across the enterprise.

Prerequisites

Create an installation response file.

A silent or unattended installation requires no user interaction, and all installation configuration information is taken from the response file. This is useful when you want multiple identical installations, or a fully automated installation.

Task

To install in silent mode, run:

- On Windows (32-bit):
  ```
  \nt386\RMP_Suite\setupconsole32.exe -f responseFileName
  -i silent -DAGREE_TO_SYBASE_LICENSE=true
  ```
- On Windows (64-bit):
  ```
  \winx64\RMP_Suite\setupconsole64.exe -f responseFileName
  -i silent -DAGREE_TO_SYBASE_LICENSE=true
  ```

where:

- *responseFileName* is the absolute path of the file name containing the installation options you chose.
- The **-D** option specifies that you agree with the Sybase License Agreement text.

Note: You must agree to the Sybase License Agreement when installing in silent mode. You can either:

- Include the option `-DAGREE_TO_SYBASE_LICENSE=true` in the command line argument.
- Edit the response file to include the property `AGREE_TO_SYBASE_LICENSE=true.`

Except for the absence of the GUI screens, all actions of the installer are the same, and the result of an installation in silent mode is exactly the same as one performed in GUI mode with the same responses.

Warning! Sybase recommends that you use the `setupconsole32.exe` or `setupconsole64.exe` executable, which runs in the foreground when you are running a silent installation. The normal `setupwin32.exe` or `setupwin64.exe` executable runs in the background, giving you the impression that the installation has terminated, and results in additional installation attempts using the silent installation. Multiple installations at the same time may corrupt the Windows Registry and lead to a failure to restart the operating system.

See also

- *Command Line Options* on page 27
- *Creating a Response File* on page 38

Installation Verification

Verify that the installation is valid and successful.

Make sure your Replication Manager installation has successfully installed:

- View the `%SYBASE%\RMP-15_5\InstallallAndRegister.log` file and also view all logs in `%SYBASE%\log` to check for errors. A valid installation does not contain the word “error.”
- Ensure that the date of the `si_reg.xml` file reflects the date of the current installation.
- Ensure that you can access Replication Manager from Sybase Central.
  For information about using Sybase Central, the Replication Manager, and the Replication Manager plug-in online help, see Chapter 3, “Managing Replication Server with Sybase Central” in the *Replication Server Administration Guide Volume 1*.

Note: Before you use the Replication Manager, make sure that the Replication Manager is registered with Sybase Central. See the “Preparing to manage a replication environment” section in the Replication Manager plug-in online help for information.

Replication Manager Uninstallation

Learn about the prerequisites before uninstalling Replication Manager.

- Log on to your machine using an account with administrator privileges.
- Shut down all Sybase applications and processes.
- Determine the mode of uninstallation—GUI (recommended) or silent mode.

Note: The uninstaller removes only those files that were loaded from the installation media in the uninstallation process. Some Sybase files, such as log and configuration files, are left intact for administrative purposes.

Uninstalling in GUI Mode

Uninstall Replication Manager in GUI mode.

1. Choose one of:
   - Select **Start** > **Settings** > **Control Panel** > **Add or Remove Programs**.
   - From the command line, enter:
     ```
     %SYBASE%\sybuninstall\ReplicationManager\uninstall.exe
     ```
   - Click **Start** > **Run** and enter:
     ```
     %SYBASE%\sybuninstall\ReplicationManager\uninstall.exe
     ```
   - Open Windows Explorer, and navigate to `%SYBASE%\sybuninstall\ReplicationManager`, and double-click `uninstall.exe`.
2. In the Introduction window, click **Next**.
3. The uninstallation summary window displays the location where you have installed Replication Manager. Click **Next**.
4. When the Uninstall Complete window appears, click **Done** to exit from the installer.

   Note: You may be prompted to decide whether to remove files that are created outside the installer. Sybase recommends that you do not remove these files.
5. If you are uninstalling the Replication Manager plug-in from 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 inside Sybase Central.

   See the Replication Manager plug-in online help.

Uninstalling in Console Mode

Uninstall Replication Manager in console mode.

1. At the command prompt, navigate to the installation directory and enter:

   ```
   %SYBASE%\sybuninstall\ReplicationManager\uninstall.exe -i
   console
   ```

   The **uninstall** program starts.

2. The flow of the **uninstall** program is identical to a regular GUI uninstallation, except output is written to a terminal window and responses are entered using the keyboard. Follow the remaining prompts to uninstall Replication Manager.

   Note: You may be prompted to decide whether to remove files that are created outside the installer. Sybase recommends that you do not remove these files.

3. If you are uninstalling the Replication Manager plug-in from 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 inside Sybase Central.

   See the Replication Manager plug-in online help.

See also

- *Command Line Options* on page 27
- *Uninstalling in GUI Mode* on page 40

Obtaining Help and Additional Information

Use the Sybase Getting Started CD, Product Manuals site (SyBooks™ Online), and online help to learn more about this product release.

- The Getting Started CD (or download) – contains release bulletins and installation guides in PDF format, and may contain other documents or updated information.
- Product Manuals at *http://sybooks.sybase.com/* – is an online version of Sybase documentation that you can access using a standard Web browser. You can browse documents online, or download them as PDFs. In addition to product documentation, the Web site also has links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, Community Forums/Newsgroups, and other resources.
- Online help in the product, if available.

To read or print PDF documents, you need Adobe Acrobat Reader, which is available as a free download from the *Adobe* Web site.

Note: A more recent release bulletin, with critical product or document information added after the product release, may be available from the Product Manuals Web site.

Technical Support

Get support for Sybase products.

If your organization has purchased a support contract for this product, then one or more of your colleagues is designated as an authorized support contact. If you have any questions, or if you need assistance during the installation process, ask a designated person to contact Sybase Technical Support or the Sybase subsidiary in your area.

Downloading Sybase EBFs and Maintenance Reports

Get EBFs and maintenance reports from the Sybase Web site.

1. Point your Web browser to *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**. You see a list of EBF/Maintenance releases.

   Padlock icons indicate that you do not have download authorization for certain EBF/Maintenance releases because you are not registered as an authorized 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.

Sybase Product and Component Certifications

Certification reports verify Sybase product performance on a particular platform.

To find the latest information about certifications:

- For partner product certifications, go to *http://www.sybase.com/detail_list?id=9784*
- For platform certifications, go to *http://certification.sybase.com/ucr/search.do*

Creating a MySybase Profile

MySybase is a free service that allows you to create a personalized view of Sybase Web pages.

1. Go to *http://www.sybase.com/mysybase*.
2. Click **Register Now**.

Accessibility Features

Accessibility ensures access to electronic information for all users, including those with disabilities.

Documentation for Sybase products is available in an HTML version that is designed for accessibility.

Vision impaired users can navigate through the online document with an adaptive technology such as a screen reader, or view it with a screen enlarger.

Sybase HTML documentation has been tested for compliance with accessibility requirements of Section 508 of the U.S Rehabilitation Act. 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 may 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.

For information about how Sybase supports accessibility, see the Sybase Accessibility site: *http://www.sybase.com/products/accessibility*. The site includes links to information about Section 508 and W3C standards.

You may find additional information about accessibility features in the product documentation.

Index

A

Adaptive Server
    for the Replication Server System Database 29
    upgrading 29
administration tasks 19

C

charsets subdirectory 17
checking for a valid installation
    in Replication Manager 39
    in Replication Server 26
collate subdirectory 17
command line installation
    Replication Manager 37
    Replication Server 24
complete installation 18
components of Replication Server 5
console mode
    installing Replication Manager 37
    installing Replication Server 23
    response file, installing Replication Server with 25
    troubleshooting 26
    uninstalling Replication Manager 40
    uninstalling Replication Server 34
conventions
    style 1
    syntax 1
CPU requirements 12
creating
    response files for Replication Manager 38
    response files for Replication Server 24
custom installation 18, 21

D

-D flag and setup
    Replication Manager 39
    Replication Server 26
default directory 21, 36
diagnosing software problems 15
directories
    default 21, 36
    installation, structure of 14
disk storage requirements 13
drepsrvr.exe program 15
dsedit utility 31

E

Embedded Replication Server System Database (ERSSD) 5, 13
environment variables
    %LIB% 31
    %PATH% 31
    %SYBASE_JRE6_32% 32
    %SYBASE_JRE6% 32
    %SYBASE_OCS% 32
    %SYBASE_REP% 32
    %SYBASE_UA% 32
    %SYBASE% 31
    required for dsedit 31
    setting 31
errors
    while starting installer 21
existing installation directories 21, 36

F

files
    batch 32
    installation log, Replication Manager 39
    installation log, Replication Server 26
    log.txt 17, 26
    si_reg.xml 26, 39
    SYBASE.bat 18, 31
    SYBASE.env 18
full installation 18, 21

G

graphical user interface (GUI) installation 18
GUI mode
    installing Replication Manager 35
    installing Replication Server 21
    uninstalling Replication Manager 40
    uninstalling Replication Server 33

H

hardware requirements 13

I

ini subdirectory 17
installation
    GUI mode 21
    log file, Replication Server 26
    methods, Replication Manager 35
    overview 5
    starting 21
    troubleshooting during silent or console mode 26
    typical software components 21
installation directories
    contents 17
    existing 21, 36
    new 21, 36
installer
    complete installation 18
    custom installation 18, 21
    errors in starting 21
    full installation 21
    standard installation 18, 21
installing
    Adaptive Server for the Replication Server System Database 29
    Replication Manager 35
    Replication Manager, using -D flag 39
    Replication Server, using -D flag 26
interactive mode
    response file, installing Replication Server with 19

J

jre subdirectory 17

L

%LIB% 31
license agreement 22, 36
licenses
    check number of processors 9
    license model 6
    obtaining 6
    sub-capacity 11
    types of 9
log files, reviewing after installation 29
log.txt file 17, 26

M

methods of installation
    Replication Manager 35
    Replication Server 21
Microsoft Visual Studio 13
mixed-version requirements 6
modifying
    batch file for Replication Server start-up 32
    remove si_reg.xml file 18

N

new installation directories 21, 36

O

obtaining licenses 6
OCS-15_0 subdirectory 17
operating system
    determining service pack levels for 14
    requirements 13
    service pack requirements for 14
overview
    installation 5
    SySAM licensing 6
    SySAM sub-capacity licensing 6

P

%PATH% 31
planning replication system 6
postinstallation tasks
    Replication Manager 39
    Replication Server 29
preinstallation tasks 6
product editions, types of 9
programs
    drepsrvr.exe 15

R

RAM requirements 12

release bulletin 6
REP-15_5 subdirectory 17
Replication Manager
    in command line mode 37
    in console mode 37
    in GUI mode 35
    in silent mode 38
    uninstalling, prerequisites 40
    with response files 37
Replication Server
    components 5
    details 5
    in console mode 18, 23
    in GUI mode 18, 21
    in silent mode 19, 25
    installing in command line mode 19, 24
    installing in silent mode, unattended 24
    licenses 6
    uninstalling, prerequisites 33
    with response files 19
Replication Server Configuration Guide for Windows 5
Replication Server Installation Guide for Windows 5
requirements
    CPU 12
    disk storage 13
    hardware 13
    operating system 13
    operating system service packs 14
    RAM 12
    system 12
response files
    installing command line mode 18
    installing with, Replication Server 18
    Replication Manager, creating for 38
    Replication Server, creating for 24
reviewing log files after installing 29
RMS plug-in subdirectory 18
rs_init utility 30

S

service pack levels 14
setting environment variables 31
shared subdirectory 17
si_reg.xml file 18
silent mode
    uninstalling Replication Server 34
silent mode installations
    Replication Manager 38
    Replication Server 19, 25
    response file, installing Replication Manager with 38
    response file, installing Replication Server with 25
    troubleshooting 26
software, diagnosing problems 15
standard installation 18, 21
starting
    installation 21
    Replication Server 32
    the sample Replication Server 30
subdirectories
    charsets 17
    ini 17
    jre 17
    OCS-15_0 17
    REP-15_5 17
    RMS plug-in 18
    Shared 17
    Sybase_Install_Registry 18
    sybuninstall 18
    SYSAM-2_0 18
    UAF-2_5 18
supported protocols 13
%SYBASE% environment variable 31
Sybase installation directories
    contents 17
Sybase_Install_Registry subdirectory 18
%SYBASE_JRE6_32% environment variable 32
%SYBASE_JRE6% environment variable 32
%SYBASE_OCS% environment variable 32
%SYBASE_REP% environment variable 32
%SYBASE_UA% environment variable 32
SYBASE.bat file 18, 31
SYBASE.env file 18
sybuninstall subdirectory 18
SySAM
    configure IPv6 8
    FLEXnet Publisher 8
    license checkout 9
    license server version 8
    sub-capacity licensing 8, 11
SySAM license model 6
SySAM license server 8
SySAM sub-capacity 11
SYSAM-2_0 subdirectory 18

sysamcap utility 6
system requirements 12

T

tables
    system requirements 12
tasks, administration 19
troubleshooting
    during console or silent mode installation 26
types of installations
    complete installation 18
    custom 18, 21
    full 18, 21
    full installation 21
    standard installation 18, 21
    typical 18, 21
typical installation 18, 21
    software components for a 21

U

UAF-2_5 subdirectory 18
uninstalling
    in console mode, Replication Manager 40
    in console mode, Replication Server 34
    in GUI mode, Replication Manager 40
    in GUI mode, Replication Server 33
    in silent mode, Replication Server 34
upgrading
    Adaptive Server Enterprise 29
    mixed-version environments 6
utilities
    dsedit 31
    rs_init 30
    sysamcap 6

V

version restrictions, when upgrading 6