

SYBASE®

Installation Guide

RepConnector™

15.0.1

[HP-UX]

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About This Book

Audience

This book is for system administrators.

How to use this book

This book contains these chapters:

- Chapter 1, “Overview,” provides an overview of the installation workflow.
- Chapter 2, “Installing RepConnector,” contains instructions on using InstallShield to install RepConnector.
- Chapter 3, “Post-Installation Tasks,” describes post-installation tasks and how to verify the installation.
- Chapter 4, “Uninstalling RepConnector,” explains how to uninstall RepConnector.

Related documents

Documentation sets for Unwired Orchestrator™, Sybase® Adaptive Server® Enterprise, Replication Server®, and EA Server are included.

Documentation sets for Oracle, BEA WebLogic, TIBCO, IBM WebSphere MQ, and Sonic MQ are not included with this product. See the Eclipse documentation at <http://eclipse.org>, and the respective other Web sites and documentation for these products.

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

- 1 Point your Web browser to Availability and Certification Reports at <http://certification.sybase.com/>.
- 2 Either select the product family and product under Search by Base Product; or select the platform and product under Search by Platform.
- 3 Select Search to display the availability and certification report for the selection.

❖ Creating a personalized view of the Sybase Web site (including support pages)

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

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

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 manual uses these style conventions:

- Commands you must enter exactly as shown appear in a Courier font

On Windows:

```
dir \work\sybase
```

On UNIX:

```
setenv SYBASE /work/sybase
```

- Words you replace with the appropriate value for your installation appear in italics

```
isql -Uyour_username -Pyour_password
```

- The names of files, volumes, and directories appear in italics

On UNIX: */work/sybase*

On Windows: *\work\sybase*

- The names of programs, utilities, stored procedures, databases, and commands appear in a sans serif font

ratool

- Items within a graphical pull-down menu appear with vertical bars showing the menu hierarchy

File | Print

Syntax conventions Syntax formatting conventions are summarized as follows. Examples that combine these elements follow the table.

Key	Definition
<i>variable</i>	Variables (words that stand for values that you fill in) appear 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, which must be enclosed in braces or brackets.
,	Commas mean you may choose as many options as you need. Options must be enclosed in braces or brackets. Separate your choices with commas. Commas may also be required in other syntax contexts.
()	Include parentheses as part of the command.
...	An ellipsis means you may repeat the last unit as many times as necessary.

Required choices

- Curly braces and vertical bars – choose one and 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 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]

Repeated elements

An ellipsis (...) means you may repeat the last unit as many times as necessary. For example, when you use the alter function replication definition command, you can list one or more parameters and their datatypes for 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}
```

Accessibility features

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.

RepConnector 15.0.1 and the HTML documentation have 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.

For information about how Sybase supports accessibility and a Section 508 compliance statement, see Sybase Accessibility at <http://www.sybase.com/accessibility>. The Sybase Accessibility site includes links to information on Section 508 and W3C standards.

Accessibility

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For a Section 508 compliance statement for <your product>, go to <Link to www.sybase.com page with 508 compliance statement for the product>.

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.



Introduction

You must install RepConnector in the same directory structure as the application server you will be using it with.

RepConnector consists of:

- RepConnector runtime component – monitors databases for business events, transforms them into XML, and routes them to messaging systems, Java components, integration servers, business process engines, or other applications. The runtime component also routes events from messaging systems to databases.
- RepConnector Manager – a graphical user interface (GUI) application that allows you to create, configure, and manage RepConnector connections.

Installation workflow

Deploy RepConnector on a J2EE application server. RepConnector supports Sybase's EAServer and BEA's WebLogic. Install and configure the application server. If you are using WebLogic, it must be running before you install RepConnector.

Follow this workflow:

- 1 Review system requirements
- 2 Install the application server and, if you are using BEA WebLogic, start it.
- 3 Start InstallShield
- 4 Install and deploy RepConnector.
- 5 Verify the installation.
- 6 Perform post-installation tasks.

The following chapters describe the tasks in this workflow.

Installing RepConnector

This chapter describes how to install Sybase RepConnector.

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Introduction

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System requirements

This section lists the software, operating system, memory, and disk space RepConnector needs to run successfully.

Required servers

One of the following servers must be installed and running before installing RepConnector:

- Sybase EAServer version 5.2.1 running with JDK 1.4
- BEA WebLogic version 8.1 running with JDK 1.4

System configuration

RepConnector requires the system configuration described in Table 2-1.

Table 2-1: RepConnector system configuration

Item	Requirement
Disk space	A minimum of 160MB of available hard disk space. A minimum of 50MB in the system temporary directory <i>/tmp</i> .
Memory	The minimum memory required is 512MB. Note Recommended memory for satisfactory performance depends on message rates, message sizes, and application-specific factors.
Operating system	HP 11.23

Optional software

Note IBM JMS classes are installed by default when you install IBM WebSphere MQ Series 6.0, but not if you install IBM MQ Series 5.x. See the IBM Web site at <http://www.ibm.com>.

- IBM WebSphere MQ/MQJMS 6.0 or 5.3.
- TIBCO Rendezvous version 7.4.1 or later
- TIBCO Enterprise for JMS version 4.3.0
- TIBCO Active Enterprise 4.1
- Sonic MQ version 6.1
- Eclipse 3.1.2

Pre-installation tasks

Before installing RepConnector:

- 1 Verify that there is enough disk space for InstallShield to create the RepConnector directory structure. Check the requirements in Table 2-1 on page 4.
- 2 Install and start the application server.
 - For EAServer, see the *EAServer Installation and Configuration Guide*.
 - If you are using WebLogic, install and start the WebLogic application server. See the BEA documentation for WebLogic at <http://commerce.bea.com/index.jsp>.
- 3 Verify that your application server is running and ready to accept connections.

- When EAServer is ready, the server console displays:

```
Accepting Connections
```

- When WebLogic is ready, the server console displays:

```
Server started in RUNNING mode
```

See your application server documentation for more information.

- 4 Verify that your PATH environment variable includes “.” at the end of the definition, so that applications look for executable files from the current directory.

If “.” is not included in the PATH environment variable, add it:

- In the sh environment:

```
PATH=.:$PATH
export PATH
```

- In the cshk and tcsh environments:

```
setenv PATH .:$PATH
```

Installing and deploying RepConnector

This section describes how to install and deploy both the RepConnector runtime component and RepConnector Manager.

❖ Starting InstallShield

- 1 Insert the RepConnector CD into your CD drive.
- 2 Mount the CD:
 - At the command line, enter `cd/cdrom/repcon15.0.1hp64`.
 - Enter `./setupHP.bin`.

❖ Installing RepConnector components

To install either the RepConnector runtime component or RepConnector Manager after starting InstallShield:

- 1 When the InstallShield Welcome window appears, click Next.
- 2 On the End-user License Agreement window, select your country and read the end-user license agreement carefully.

Select I Agree to continue with the installation.

Note If you do not select I Agree, you cannot install the software. You must click Cancel to end the installation process.

Click Next.

- 3 Select one of:
 - RepConnector for Sybase EAServer – installs the RepConnector runtime component into the EAServer directory structure. Click “Next”, then follow the steps in “Installing the RepConnector runtime component,” below.
 - RepConnector for BEA WebLogic – installs the RepConnector runtime component into the WebLogic directory structure. Click “Next”, then follow the steps in “Installing the RepConnector runtime component,” below.
 - RepConnector Manager – installs the RepConnector Manager component. Click “Next”, then follow the steps in “Installing RepConnector Manager” on page 9.

❖ Installing the RepConnector runtime component

- 1 Enter or browse for the name of the directory where the application server is installed.

For example, if you are installing RepConnector with EAServer, the default location is:

```
$SYBASE/EAServer
```

Click Next.

- 2 If you are installing on BEA WebLogic Server, enter the WebLogic information:
 - Host Name – your machine name.
 - Domain Name – your domain name.
 - Server Name – your server name.
 - Port Number – 7001, or your port number.
 - User Name – your WebLogic user name.
 - Password – your WebLogic user password.
- 3 InstallShield tries to connect to the application server by sending a ping command. If the ping is successful, InstallShield takes you to the next step.

If the ping is not successful, verify that:

 - The server is running and ready to accept connections. See “Pre-installation tasks” on page 5 for more information.
 - The information you entered in Step 2 is correct. See your system administrator if you are not able to verify this information. If the server is not running, restart it.
 - The information in the InstallShield wizard is correct. If there is no other apparent reason for the failure, ask your Sybase representative to call Sybase Technical Support.
- 4 In the preview window, verify the size of the installation. If the installation is larger than the space you have available, see your system administrator to reassess the requirements.
- 5 InstallShield installs the RepConnector runtime component, then deploys it to the application server.

If you have an existing RepConnector installation, InstallShield asks if you want to overwrite that installation. Click “Yes” to overwrite, or “Cancel”.

- 6 The Sybase Software Asset Management (SySAM) License Server window allows you to designate where RepConnector will find its licenses. Specify whether the licenses are obtained from a license server (a served license) or not (an unserved license).

Note For information about served and unserved licenses, and about choosing the best license server for your environment, see Chapter 2, “Choosing a License Model” of the *Sybase Software Asset Management User’s Guide*.

If you answer yes, you must know the host name of the machine where the license manager is running, and the port number if you have used a non-default port number.

If you answer no, you will be using unserved licenses. You are reminded to download and install the license file after you finish this window.

- 7 The SySAM Notification window asks you to configure your server for email notification. When configuration is enabled, designated users receive information about license management events requiring attention.

Provide:

- SMTP server host number
 - SMTP server port number
 - E-mail return address
 - Recipient e-mail addresses
 - Message severity that triggers e-mail messages
- 8 When InstallShield finishes, select one of these options:
 - Install RepConnector Manager – takes you to the InstallShield page that installs Eclipse (if it is not already installed on your machine) and the RepConnector administration tool. Click Next and proceed to “Installing RepConnector Manager”.

Note You can install RepConnector Manager later, or on a different machine.

- Do not install RepConnector Manager, which takes you to the last page of InstallShield and completes installation. Click “Finish”.

Installing RepConnector Manager

From the RepConnector Manager Options window, select one:

- Install Eclipse and RepConnector Manager.
- Install RepConnector Manager on the Existing Eclipse.
- Install RepConnector Manager on the Existing Sybase Unwired Orchestrator.

❖ Installing RepConnector Manager and Eclipse

To install RepConnector Manager on a machine that does not have an existing Eclipse installation:

- 1 Enter the directory in which you want to install RepConnector Manager and Eclipse, or accept the default, which is `<AppServer>/repra/eclipse`. Click Next.
- 2 On the preview page, click OK.
InstallShield installs RepConnector Manager and the Eclipse framework into the directory you indicated.
- 3 When the installation is finished, click “Finish”.
- 4 Follow the verification steps in “Verifying the installation” on page 10.

❖ Installing RepConnector Manager to an existing Eclipse directory

- 1 Enter the directory for your Eclipse installation.
Click “Next”.
- 2 If there is an existing RepConnector Manager installed, InstallShield prompts:

```
Do you want to override the existing RepConnector
Manager installation?
```

Click “Yes” to continue.

Note If you click “No”, InstallShield does not install RepConnector Manager.

- 3 InstallShield installs RepConnector Manager. Follow the verification steps in “Verifying the installation” on page 10.

❖ **Installing RepConnector Manager with an existing Unwired Orchestrator**

- 1 Enter the directory for your Unwired Orchestrator installation.
- 2 Click “Next” to install RepConnector Manager in the Unwired Orchestrator directory, or click Browse to change the directory.

InstallShield installs RepConnector Manager into the Unwired Orchestrator directory. You can now configure and run RepConnector and Unwired Orchestrator from the same Eclipse framework.

- 3 When the installation is complete, click “Finish”.
- 4 The next time you start Unwired Orchestrator (using *IntegrationOrchestrator40.bat*), a notification window appears:

```
Pending Configuration Changes
```

```
Check the changes you wish to process now. Remove changes that should never be processed.
```

Accept the configuration change you just made (it is listed with the current date and time).

- 5 When you are prompted, click Yes to restart Eclipse.

Verifying the installation

Follow the appropriate procedure to verify your installation.

❖ **Verifying the RepConnector installation for EAServer**

- 1 Start Jaguar Manager if not already started: from the command line, where *\$JAGUAR* is the location of the EAServer installation, navigate to *\$JAGUAR/bin* and enter:

```
./jagmgr
```

- 2 In the Jaguar Manager window, select Tools | Connect | Jaguar Manager.
- 3 On the Login dialog box, enter:
 - The user name. The default is “jagadmin.”
 - The password. The default is blank.

- The host name. The default is your machine name.
- The port number. The default is 9000.

Click Connect.

- 4 To verify that RepConnector is deployed to your EAServer installation directory structure:
 - a Open the Servers folder.
 - b Open the EAServer folder. (“Jaguar” is the default name.)
 - c Open the Installed Applications folder and verify that the Sybase RepConnector object is listed.

❖ **Verifying the RepConnector runtime installation for WebLogic**

- 1 Start the WebLogic Server console, if not already started.

See the WebLogic documentation at <http://commerce.bea.com/index.jsp> for more information.
- 2 Open your Internet Explorer or Netscape browser and connect to *http://<hostname>:port_number/console*.

For example, enter:

```
http://localhost:7001/console
```
- 3 Enter your user name and password to connect to the server. For example, enter `weblogic` for both your user name and password.
- 4 Go to *<your_domain>/Deployments/Applications*.
- 5 Verify that the SybaseRepConnector folder is listed.

❖ **Verifying the RepConnector Manager installation**

- 1 From the RepConnector Manager installation directory, run the RepConnector Manager script file, where *your_app_server* is the application server. Go to */your_app_server/repra/eclipse*, and run *RepConnectorManager.sh*.

Eclipse starts and displays the RepConnector Manager Welcome window.

Note If the RepConnector Manager Welcome window does not display, select Help | Welcome.

- 2 Select the large RepConnector graphic to launch the RepConnector Manager.

- 3 Expand the Sybase RepConnector icon.

Two sample connection profiles are now listed under the Sybase RepConnector icon:

```
SybaseRepConnector
- EAServer:8080
- weblogic:7001
```

If you do not see the tree structure displayed under the Sybase RepConnector icon, have your Sybase contact call Sybase Technical Support.

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Post-installation tasks

RepConnector requires specific environment variable settings to run with your application server and target messaging systems. These environment variables are set in the *repra_env.sh* file, located as follows:

- For EAServer: *\$JAGUAR/repra/bin*
- For WebLogic: *\$BEA_HOME/repra/bin*

Most environment variables are already set correctly for your environment in *repra_env.sh*. However, you must verify that the environment variable for your messaging system is set properly, and that *repra_env.sh* is called by the batch file that starts your application server.

Note Whenever you modify *repra_env.sh*, you must restart your application server.

❖ Verifying that *user_setenv.sh* calls *repra_env.sh* for EAServer

- 1 Go to *EAServer/bin*.
- 2 Use any command line editor to open *user_setenv.sh*.
- 3 Verify that *user_setenv.sh* contains this line:

```
if [ -f $JAGUAR/repra/bin/repra_env.sh ]
then
. $JAGUAR/repra/bin/repra_env.sh
fi
```

❖ **Modifying the server-starting batch file to call *repra_env.sh* (WebLogic)**

See your BEA documentation for the details about the WebLogic installation.

- 1 Locate the script file that you use to start your server. Typically, the file is in your domain directory and called *startWebLogic.sh*.

For example, the file could be:

/opt/BEA/user_projects/domains/mydomain/startWebLogic.sh

- 2 To modify the file to call *repra_env.sh*, open the file with any text editor. For example:

```
vi /opt/BEA/user_projects/domains/mydomain/startWebLogic.sh
```

Add the new line that calls *repra_env.sh* just above the line that starts the server. For example, before your edits the text reads:

```
$JAVA_HOME/bin/java $JAVA_VM $MEM_ARGS \  
$JAVA_OPTIONS -Dweblogic.Name=$SERVER_NAME \  
-Dweblogic.ProductionModeEnabled=$PRODUCTION_MODE \  
-Djava.security.policy="$WL_HOME/server/lib/weblogic.policy" \  
weblogic.Server
```

After your edits (see the lines in bold):

```
if [ -f /opt/BEA/repra/bin/repra_env.sh ]  
then  
    . /opt/BEA/repra/bin/repra_env.sh  
fi
```

```
$JAVA_HOME/bin/java $JAVA_VM $MEM_ARGS \  
$JAVA_OPTIONS -Dweblogic.Name=$SERVER_NAME \  
-Dweblogic.ProductionModeEnabled=$PRODUCTION_MODE \  
-Djava.security.policy="$WL_HOME/server/lib/weblogic.policy" \  
weblogic.Server
```

❖ **Starting EAServer**

- 1 From the command line, enter:

```
cd $JAGUAR/bin  
serverstart.sh -jdk14
```

- 2 The server is started when the Jaguar CTS console appears and shows “Accepting connections” on the last line.

❖ **Restarting WebLogic**

- 1 Use your Web browser to log in to the WebLogic Server console. For example:


```
http://localhost:7001/console
```

- 2 From the console, log in to your WebLogic server using the user name and password of the admin user.
- 3 Go to `<your domain name>/Servers/<your server name>`.
- 4 Right-click the server, and select Start/Stop This Server.
- 5 On the next Web page, choose one of:
 - Graceful Shutdown of This Server
 - Forced Shutdown of This Server

Note See the *WebLogic Administrator's Guide* from BEA for detailed information about shutdown options.

- 6 Click OK to shut down the server.
- 7 To start the server, from the command line, enter:

```
cd <the domain directory>
startWebLogic.sh
```
- 8 Verify the server's running status from the command line console by checking for the following message:

```
Server started in RUNNING mode
```
- 9 Execute *WLSSStart.sh* from the RepConnector directory to finish the WebLogic installation process.

See the WebLogic documentation at <http://commerce.bea.com/index.jsp> for more information.

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Uninstalling the RepConnector runtime component

Before you uninstall the runtime component:

- You must have the RepConnector target application server (either EAServer or WebLogic) running.
- If you made any changes to *.sh* files, Sybase recommends that you back up these files before you begin to uninstall the RepConnector runtime component.

If you are running EAServer, from the command line enter:

```
cd $JAGUAR/repra/_uninst
uninst.sh
```

If you are running WebLogic, enter:

```
cd $BEA_HOME/repra/_uninst
uninst.sh
```

❖ Uninstalling the RepConnector runtime component

After you start the uninstall feature of InstallShield:

- 1 On the InstallShield Welcome window, click Next.
- 2 On the server information pane, provide the server connection information.

For EAServer:

- Host name
- Port number

- EAServer admin user name
- Password

For WebLogic:

- WebLogic domain name
- Server name
- Host name
- Port number
- WebLogic server admin user name
- Password

InstallShield removes the RepConnector runtime component from the application server configuration.

Note InstallShield proceeds only if the connection to the application server is established. Otherwise, it displays the same server information page. If you need assistance identifying the correct server information, see your server administrator.

- 3 In the uninstallation preview window, click “Next” to accept the directory path to the RepConnector installation to be removed.

If you made any changes to *.sh* files, InstallShield prompts you by asking whether you want to remove the modified file.

```
C:\My_Installation\EASERVER\repra\bin\setlogin.bat
exists on this system and has been modified since
installation. Do you want to remove this file?
```

Click “Yes to All”.

Note If you did not back up these files before you began to uninstall RepConnector, you might want to click “Cancel”, back up the files, and return to the uninstaller.

InstallShield uninstalls the directories and files for RepConnector 15.0.1.

- 4 On the summary page, click “Finish”.

- 5 Shut down and restart your application server.

Note After you successfully uninstall the RepConnector runtime component, the *repra* directory and some residual files (like *BAK*) remain. You can manually delete the entire *repra* directory and any remaining directories and files that you do not need.

Uninstalling RepConnector Manager

- 1 Go to your Eclipse installation directory:

```
cd My_Installation/My_App_Server/repra/eclipse
```

- 2 Run the script file:

```
deleteRCManager.sh
```

Uninstalling RepConnector Manager does not remove the Eclipse installation: It removes RepConnector from the Eclipse framework. To remove the Eclipse installation, you must manually delete the *eclipse* directory.

If you installed Eclipse when you installed RepConnector Manager, Eclipse resides in the *repra* directory. Therefore, if you delete the *repra* directory, Eclipse is also deleted. See the Eclipse documentation at <http://eclipse.org>.

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