



Installation Guide

Sun Java™ Studio Enterprise 8.1

Sun Microsystems, Inc.
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Adobe PostScript

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Preface

The Sun Java™ Studio Enterprise 8.1 software includes the following:

- Sun Java Studio Enterprise 8.1 integrated development environment (the IDE)
- Sun Java™ System Application Server 8.2 Platform Edition
- Sun Java Studio Enterprise 8.1 Collaboration Runtime

This installation guide for the Java Studio Enterprise software provides instructions for installing, setting up, and starting the software. This book is designed to aid both system administrators and developers who install this software.

You must be familiar with installing and uninstalling software products on the platforms you choose to use with this software.

Using the Java Studio Enterprise IDE successfully requires knowledge of J2EE concepts, as described in the following resources:

- *Java 2 Platform, Enterprise Edition Blueprints*
<http://java.sun.com/blueprints/enterprise/index.html>
- *Java 2 Platform, Enterprise Edition Specification*
<http://java.sun.com/javaee/downloads/previous/>
- *The J2EE Tutorial*
<http://java.sun.com/j2ee/1.4/docs/#tutorials>
- *Java Servlet Specification Version 2.3*
<http://java.sun.com/products/servlet/download.html#specs>
- *JavaServer Pages Specification Version 1.2*
<http://java.sun.com/products/jsp/reference/api/index.html>

Familiarity with the Java API for XML-Based RPC (JAX-RPC) is helpful. For more information, see this web page:

<http://java.sun.com/webservices/jaxrpc/index.jsp>

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Typographic Conventions

Typeface	Meaning	Examples
AaBbCc123	The names of commands, files, and directories; on-screen computer output	Edit your .cvspass file. Use DIR to list all files. Search is complete.
AaBbCc123	What you type, when contrasted with on-screen computer output	> login :
<i>AaBbCc123</i>	Book titles, new words or terms, words to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . These are called <i>class</i> options. You <i>must</i> save your changes.
<i>AaBbCc123</i>	Command-line variable; replace with a real name or value	To delete a file, type DEL <i>filename</i> .

Related Documentation

The Java Studio Enterprise documentation includes books delivered in Acrobat Reader (PDF) format, release notes, online help, and tutorials delivered in HTML format.

Documentation Available Online

The documents described in this section are available from the `docs.sun.com`SM web site (<http://docs.sun.com>) and from the Reference tab on the Sun Java Studio Enterprise page of the Sun Developer Network portal (<http://developers.sun.com/jsenterprise>).

- *Sun Java Studio Enterprise 8.1 Release Notes*

Describes last-minute release changes and technical notes.

- *Sun Java Studio Enterprise 8.1 Installation Guide*

This book.

Tutorials

Sun Java Studio Enterprise 8.1 tutorials help you understand the features of the IDE. Each tutorial provides techniques and code samples that you can use or modify in developing more substantial applications.

All tutorials are available from the Sun Developer Network portal, which you can access from within the IDE by choosing Help → Tutorials or by clicking the Tutorials link under Documentation in the Welcome page.

Online Help

Online help is available in the Sun Java Studio Enterprise 8.1 IDE. You can open help by pressing the F1 key in Microsoft Windows environments, the Help key in the Solaris environment, or by choosing Help → Help Contents. Either action displays a list of help topics and a search facility.

Documentation in Accessible Formats

The documentation is provided in accessible formats that are readable by assistive technologies for users with disabilities. You can find accessible versions of documentation as described in the following table.

Type of Documentation	Format and Location of Accessible Version
Books	HTML at http://docs.sun.com
Tutorials	HTML from the Sun Developer Network portal at http://developers.sun.com/jsenterprise
Release notes	HTML at http://docs.sun.com

Contacting Sun Technical Support

If you have technical questions about this product that are not answered in this document, go to:

<http://www.sun.com/service/contacting>

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Before You Install the Java Studio Enterprise Software

Review the information in this chapter before you install the Java™ Studio Enterprise software.

This chapter covers the following topics:

- “System Requirements” on page 9
- “Required Software” on page 10
- “Installation Restrictions” on page 10
- “Running Different Versions of Java Studio Enterprise on the Same System” on page 11

System Requirements

The system requirements must be satisfied to successfully install the Java Studio Enterprise software.

Sun Java Studio Enterprise 8.1 is supported on the following operating systems:

- Windows XP Professional Edition SP2
- Solaris™ 10 Operating System (Solaris OS)
- Solaris™ 9 Operating System (Solaris OS) Update 7
- Red Hat Fedora Core 3 (Linux OS)

Review the *Sun Java Studio Enterprise 8.1 Release Notes* for additional information about system requirements and supported platforms:

<http://developers.sun.com/prodtech/javatools/jsenterprise/reference/docs/index.jsp>

Required Software

Sun Java Studio Enterprise 8.1 requires Java™ 2 Platform Standard Edition Development Kit (JDK) 5.0 Update 1 or higher on your system.

Note – Version 5.0 Update 1 is the external number for this JDK update release. Its internal version number is 1.5.0_01.

If you do not have JDK 5.0 Update 1 or higher, download and install the latest update of JDK version 5.0 for your platform from

<http://java.sun.com/javase/downloads/index.html>

See <http://java.sun.com/j2se/> for additional information about available versions.

If you have JDK 5.0 Update 1 or higher, you can select it to be used with this installation of the Java Studio Enterprise software.

Note – Without JDK 5.0 Update 1 or higher, the installation of Sun Java Studio Enterprise 8.1 will not run.



Caution – This release of the Java Studio Enterprise software does not support Java™ SE Development Kit (JDK) 6. For more information, see *Sun Java Studio Enterprise 8.1 Release Notes*.

Installation Restrictions

- For **all platforms**, the IDE installation directory must be empty, and the user who runs the installer process must have write permissions for this directory.
- The installation directory for the Sun Java System Application Server 8.2 Platform Edition should not contain spaces or special symbols in the path name.
- For **all platforms**, running firewall applications might prevent some components from being configured correctly during the installation process. Therefore, disable any firewall applications before you start the installation.

Running Different Versions of Java Studio Enterprise on the Same System

Java Studio Enterprise 8.1 can coexist with Java Studio Enterprise 8 on the same system. You do not have to uninstall Java Studio Enterprise 8 to install and run Java Studio Enterprise 8.1.

Collaboration Runtime

By default, the Collaboration Runtime is configured to use port 5222 if it is available. If you have Java Studio Enterprise 8 Collaboration Runtime installed and you want to use both installations at the same time, make sure you start the Java Studio Enterprise 8 Collaboration Runtime before you start the IDE installation. Starting the Java Studio Enterprise 8 Collaboration Runtime ensures that the installer detects that port 5222 is already in use. In this case, another available port is used for the Collaboration Runtime.

Microsoft Windows: Installing and Starting the Java Studio Enterprise Software

This chapter describes how to install the Java Studio Enterprise software from physical (DVD) and from files downloaded from the web on the Microsoft Windows platform.

This chapter covers the following topics:

- [“Before You Start” on page 13](#)
- [“Installing the Java Studio Enterprise Software” on page 14](#)
- [“Starting the IDE” on page 20](#)

Note – If you want to install the Java Studio Enterprise software on multiple hosts that require similar installation configurations, you can use silent installation. See [“Installing the Java Studio Enterprise Software Using Silent Mode” on page 37](#) for details about preparing and executing a silent installation.

Before You Start

The following restrictions apply to installation on the Microsoft Windows platform:

- JDK 5.0 Update 1 or higher must be installed on your system. If you do not have JDK 5.0 Update 1 or higher, you cannot proceed with the installation.

For more information about the JDK version, see [“Required Software” on page 10](#).

- Disable any firewall applications before you start the installation.

Enabled firewall applications can prevent some components from being configured correctly during the installation process.

- The Java Studio Enterprise installer first extracts the required files to the default temporary space directory defined by the `TEMP` environment variable. If the amount of disk space in the `temp` directory is less than required, the installation might fail or proceed incorrectly.

If you encounter this problem, you can increase the space allocated for the `TEMP` environment variable or specify a different temporary directory that has sufficient space. Another option is to create an installation log file where the installer will record error messages.

For instructions, see [“Generating an Installation Log File” on page 14](#) and [“Specifying a Temporary Directory for the Installation” on page 14](#) below.

Generating an Installation Log File

If you want to create a log file with information about the installation, you must start the installation process from the command prompt window using the following commands:

```
C:\>cd location-of-installer  
C:\location-of-installer>jstudio_ent81-ml-windows.exe -is:log log-file-name
```

Specifying a Temporary Directory for the Installation

If you want to specify a different temporary directory for the installer to use, you must start the installer from the command prompt window using the following commands:

```
C:\>cd location-of-installer  
C:\location-of-installer>jstudio_ent81-ml-windows.exe -is:tempdir temporary-directory
```

Installing the Java Studio Enterprise Software

You can install the Java Studio Enterprise software from media or from a download file.

▼ To Start the Installation

1. **Log in to your system with administrator privileges and disable any firewall applications.**

Enabled firewall applications can prevent some components from being configured correctly during the installation process.

2. **To install from media, insert the media in your media drive.**

If the installer does not start, navigate to the location specified in the README file in the top level of the media and double-click the installer file.

3. **To install from a download file, do the following:**

- a. **Download the Java Studio Enterprise installer file (*download-installer*) into a writable folder.**

Use Sun™ Download Manager software

(<http://www.sun.com/download/sdm/>) to ensure a successful download.

Note – After you complete the download, verify the downloaded file. In the download folder, check that the file that you have downloaded has the same number of bytes that is shown on the download page. If the file size does not match, the file might have been corrupted during download. In that case, try downloading again.

- b. **In the download folder, double-click the *download-installer* file.**

4. **At the Welcome page of the installation wizard, click Next.**
5. **Respond to the license agreement and click Next.**
6. **At the installation type page, do one of the following:**

- If you want to install the bundled Application Server, use the following table to determine your selection and next steps.

To install ...	Do this ...
All components	<ol style="list-style-type: none">1. Select the Typical radio button and click Next.2. At the installation directory page, follow the instructions in “To Continue an Installation With the Bundled Application Server” on page 17.
The IDE and the bundled Application Server (you do not want to install the Collaboration Runtime)	<ol style="list-style-type: none">1. Select the Custom radio button and click Next.2. At the component selection page, clear the Collaboration Runtime checkbox.3. Click Next.4. At the installation directory page, follow the instructions in “To Continue an Installation With the Bundled Application Server” on page 17.

- If you have an installation of Sun Java™ System Application Server 8.2 Platform Edition that you want to use with this installation of Java Studio Enterprise, use the following table to determine your selection and next steps.

To install ...	Do this ...
The IDE and Collaboration Runtime	<ol style="list-style-type: none"> 1. Select the Custom radio button and click Next. 2. At the component selection page, clear the Sun Java™ System Application Server 8.2 PE checkbox. 3. Click Next. 4. At the installation directory page, follow the instructions in “To Continue an Installation With a Preinstalled Application Server” on page 18.
The IDE	<ol style="list-style-type: none"> 1. Select the Custom radio button and click Next. 2. At the component selection page, clear the Sun Java™ System Application Server 8.2 PE and the Collaboration Runtime checkboxes. 3. Click Next. 4. At the installation directory page, follow the instructions in “To Continue an Installation With a Preinstalled Application Server” on page 18.

▼ To Continue an Installation With the Bundled Application Server

1. At the installation directory page of the installation wizard, accept the default installation directories for the IDE and the Application Server or specify different directories and click Next.

Note – The installation directories you specify must be empty. If the directory you specify does not exist, it will be created during the installation. You should have write permissions for the selected directories.

The installation directory for the Sun Java System Application Server 8.2 Platform Edition cannot contain spaces or special symbols, for example ! and #, in the path name.

2. If the installer fails to automatically detect a compatible JDK, specify the JDK to be used with this installation of Java Studio Enterprise and click Next.

Note – If you do not have JDK 5.0 Update 1 or higher, cancel the current installation and install the required JDK version. See [“Required Software” on page 10](#).

3. **Define the `admin` username and password for the Application Server installation or accept the defaults and click Next.**

The `admin` username must be an alphanumeric string and the password should be at least eight characters long. The default username is `admin` and password is `adminadmin`.

4. **(Optional) Verify the default port values for the Application Server and change them if necessary. Then click Next.**

This page appears only if you have selected the Custom installation type (for example, you are installing the IDE and bundled Application Server, without the Collaboration Runtime).

For Typical installation, the installer automatically validates default Application Server ports, requiring no interaction from your side.

5. **Follow the instructions in [“To Complete the Installation” on page 19](#) to finish the installation.**

▼ To Continue an Installation With a Preinstalled Application Server

1. **At the installation directory page of the installation wizard, accept the default IDE installation directory or specify a different directory and click Next.**

Note – The installation directories you specify must be empty. If the directory you specify does not exist, it will be created during the installation. You should have write permissions for the selected directories.

2. **Specify the JDK to be used with this installation of Java Studio Enterprise from the list of compatible JDK installations and click Next.**

Note – If you do not have JDK 5.0 Update 1 or higher, cancel the current installation and install the required JDK version first. See [“Required Software” on page 10](#).

3. Select the preinstalled Application Server from the list of compatible installations or click **Browse** to specify its location and click **Next**.

If you proceed with the installation without selecting a preinstalled Application Server, the Java Studio Enterprise IDE will not be configured to use this Application Server installation. You need to manually configure the IDE for the preinstalled Application Server.

4. (Optional) At the Collaboration Runtime settings page, specify the port values, service name, and instance name for the Collaboration Runtime, or accept the default values.

This page appears only if you have selected to install the Collaboration Runtime.

5. Click **Next**.

6. Follow the instructions in [“To Complete the Installation” on page 19](#) to finish the installation.

▼ To Complete the Installation

1. Verify that the current settings are correct and you have enough space on your system.
2. Click **Install** to begin the installation.
3. To start the IDE after the installation is complete, leave the **Launch Java Studio Enterprise IDE** checkbox selected.
4. Click **Finish**.

The installation program creates a log with information about the installation. By default, this log file resides in the following directory: %SystemDrive%\Documents and Settings\user-ID\Local Settings\Temp\jstudio_ent81-installation-timestamp.random-number.log

For example: C:\Documents and Settings\myUserName\Local Settings\Temp\jstudio_ent81-installation-20060227130933.12558.log

If you followed the instructions in [“Generating an Installation Log File” on page 14](#), the log file also resides in the location you specified before the installation.

5. If you disabled any firewall applications, enable those firewall applications.

Note – If you installed Sun Java™ System Application Server 8.2 Platform Edition or Collaboration Runtime, you can find configuration information, such as server port numbers, in the following file:

java-studio-install-dir\configuration-data.txt

Starting the IDE

If you did not start the IDE from the last page of the installation wizard, you can use one of the methods described in this section to start the IDE.

▼ To Start the IDE

- Double-click the Java Studio Enterprise 8.1 icon located on your desktop.
- Choose Start → Programs → Sun Microsystems → Java Studio Enterprise 8.1 → Java Studio Enterprise IDE → Start IDE.

▼ To Start the IDE at the Command Prompt

1. Change to the folder that contains the IDE executable.

For example:

```
> cd java-studio-install-dir\ide\bin
```

2. To start the IDE with the default launcher used by the desktop icon, use the `jstudiow.exe` command.

or

To start the IDE and display messages in the command prompt window, use the `jstudio.exe` command.

You can specify command options for the executable at the command prompt or in the `java-studio-install-dir\ide\etc\jstudio.conf` file. See [“Using Startup Command-Line Options”](#) on page 33.

Solaris OS and Linux: Installing and Starting the Java Studio Enterprise Software

This chapter describes how to install the Java Studio Enterprise software from physical media (DVD) and from files downloaded from the web in the Solaris OS and Linux environments.

This chapter covers the following topics:

- [“Before You Start” on page 21](#)
- [“Installing the Java Studio Enterprise Software” on page 23](#)
- [“Starting the IDE” on page 29](#)

Note – If you want to install the Java Studio Enterprise software on multiple hosts that require similar installation configurations you can use silent installation. See [“Installing the Java Studio Enterprise Software Using Silent Mode” on page 37](#) for details about preparing and executing a silent installation.

Before You Start

The following restrictions apply to the installation in the Solaris OS and Linux environments:

- JDK 5.0 Update 1 or higher must be installed on your system. If you do not have JDK 5.0 Update 1 or higher, you cannot proceed with the installation. For more information, see [“Required Software” on page 10](#)
- The installation directory for the Sun Java System Application Server 8.2 Platform Edition cannot contain spaces or special symbols, such as ! and #, in the path name.

- The Java Studio Enterprise installer first extracts the files to the default temporary space directory defined by the `TEMP` environment variable. If the amount of disk space in the `temp` directory is less than required, the installation might fail or proceed incorrectly.

If you encounter this problem, you can increase the space allocated for the `TEMP` environment variable or specify a different temporary directory that has sufficient space. Another option is to create an installation log file where the installer will record error messages. For instructions, see [“Generating an Installation Log File” on page 22](#) and [“Specifying a Temporary Directory for the Installation” on page 22](#) below.

Generating an Installation Log File

If you want to create a log file with information about the installation, you must start the installation process from the terminal window using the following commands:

```
% cd /location-of-installer
% ./installer -is:log log-file-name
```

Be sure to replace *installer* with one of the following:

- Solaris OS on SPARC platforms: `jstudio_ent81-ml-solaris-sparc.sh`
- Solaris OS on x86 platforms: `jstudio_ent81-ml-solaris-x86.sh`
- Linux platforms: `jstudio_ent81-ml-linux.sh`

Specifying a Temporary Directory for the Installation

If you want to specify a different temporary directory for the installer to use, you must start the installer from the terminal window using the following commands:

```
% cd /location-of-installer
% ./installer -is:tempdir temporary-directory
```

Be sure to replace *installer* with one of the following:

- Solaris OS on SPARC platforms: `jstudio_ent81-ml-solaris-sparc.sh`
- Solaris OS on x86 platforms: `jstudio_ent81-ml-solaris-x86.sh`
- Linux platforms: `jstudio_ent81-ml-linux.sh`

Installing the Java Studio Enterprise Software

You can install the Java Studio Enterprise software from media or from a download file.

▼ To Start the Installation

1. **Log in to your system with administrator privileges and disable any firewall applications.**

Enabled firewall applications can prevent some components from being configured correctly during the installation process.

Note – On the Linux platform, you can install the Java Studio Enterprise software without logging in with administrator privileges.

2. **To install from media, insert the media in your media drive.**

If the installer does not start, open the terminal window and start the installation using the following commands:

```
% cd /media-drive/volume-label
% ./installer
```

Be sure to replace *installer* with the file name of the installer file. The location of the installer file is specified in the README file in the top level of the media.

Note – For Solaris OS, the autorun script is disabled by default. To start the installer, navigate to the product folder on the media and double-click the installer file in the File Browser.

3. **To install from a download file, do the following:**
 - a. **Download the Java Studio Enterprise installer file (*download-installer*) into a writable directory.**



Caution – Do not use a download directory that contains spaces or other special characters in the path name.

Use Sun™ Download Manager software
(<http://www.sun.com/download/sdm/>) to ensure a successful download.

Note – After you complete the download, verify the downloaded file. In the download directory, check that the file that you have downloaded has the same number of bytes that is shown on the download page. If the file size does not match, the file might have been corrupted during download. In that case, try downloading again.

b. From the command prompt, change the file you downloaded to an executable file and start the installer using the following commands:

```
% chmod +x download-installer  
% ./download-installer
```

Be sure to replace *download-installer* with the file name of the downloaded file.

4. At the Welcome page of the installation wizard, click Next.
5. Respond to the license agreement and click Next.
6. At the installation type page, do one of the following.

- If you want to install the bundled Application Server, use the following table to determine your selection and next steps.

To install ...	Do this ...
All components	<ol style="list-style-type: none">1. Select the Typical radio button and click Next.2. At the installation directory page, follow the instructions in “To Continue an Installation With the Bundled Application Server” on page 26.
The IDE and the bundled Application Server (you do not want to install the Collaboration Runtime)	<ol style="list-style-type: none">1. Select the Custom radio button and click Next.2. At the component selection page, clear the Collaboration Runtime checkbox.3. Click Next.4. At the installation directory page, follow the instructions in “To Continue an Installation With the Bundled Application Server” on page 26.

- If you have an installation of Sun Java™ System Application Server 8.2 Platform Edition that you want to use with this installation of Java Studio Enterprise, use the following table to determine your selection and next steps.

To install ...	Do this ...
The IDE and Collaboration Runtime	<ol style="list-style-type: none"> 1. Select the Custom radio button and click Next. 2. At the component selection page, clear the Sun Java™ System Application Server 8.2 PE checkbox. 3. Click Next. 4. At the installation directory page, follow the instructions in “To Continue an Installation With a Preinstalled Application Server” on page 27.
The IDE	<ol style="list-style-type: none"> 1. Select the Custom radio button and click Next. 2. At the component selection page, clear the Sun Java™ System Application Server 8.2 PE and the Collaboration Runtime checkboxes. 3. Click Next. 4. At the installation directory page, follow the instructions in “To Continue an Installation With a Preinstalled Application Server” on page 27.

▼ To Continue an Installation With the Bundled Application Server

1. At the installation directory page of the installation wizard, accept the default installation directories for the IDE and the Application Server or specify different directories and click Next.

Note – The installation directories you specify must be empty. If the directory you specify does not exist, it will be created during the installation. You must have write permissions for the selected directories.

The installation directory for the Sun Java System Application Server 8.2 Platform Edition cannot contain spaces or special symbols, such as ! and #, in the path name.

2. If the installer fails to automatically detect a compatible JDK, specify the JDK to be used with this installation of Java Studio Enterprise and click Next.

Note – If you do not have JDK 5.0 Update 1 or higher, cancel the current installation and install the required JDK version first. See [“Required Software” on page 10](#).

3. **Define the `admin` username and password for the Application Server installation or accept the defaults and click Next.**

The `admin` username must be an alphanumeric string and the password should be at least eight characters long. The default username is `admin` and password is `adminadmin`.

4. **(Optional) Verify the default port values for the Application Server and change them if necessary. Then click Next.**

This page appears only if you have selected the Custom installation type (for example, you are installing the IDE and bundled Application Server, without the Collaboration Runtime).

For Typical installation, the installer automatically validates default Application Server ports, requiring no interaction from you.

5. **Follow the instructions in [“To Complete the Installation” on page 28](#) to finish the installation.**

▼ To Continue an Installation With a Preinstalled Application Server

1. **At the installation directory page of the installation wizard, accept the default IDE installation directory or specify a different directory and click Next.**

Note – The installation directories you specify must be empty. If the directory you specify does not exist, it will be created during the installation. You must have write permissions for the selected directories.

2. **Specify the JDK to be used with this installation of Java Studio Enterprise from the list of compatible JDK installations and click Next.**

Note – If you do not have JDK 5.0 Update 1 or higher, you must cancel the current installation and install the required JDK version first. See [“Required Software” on page 10](#).

3. **Select the preinstalled Application Server from the list of compatible installations or click Browse to specify its location and click Next.**

If you proceed with the installation without selecting a preinstalled Application Server, the Java Studio Enterprise IDE will not be configured to use this Application Server installation. You need to manually configure the IDE for the preinstalled Application Server.

4. **(Optional) At the Collaboration Runtime settings page, specify the port values, service name, and instance name for the Collaboration Runtime, or accept the default values.**

This page appears only if you have selected to install the Collaboration Runtime.

5. **Click Next.**
6. **Follow the instructions in [“To Complete the Installation” on page 28](#) to finish the installation.**

▼ To Complete the Installation

1. **Verify that the current settings are correct and you have enough space on your system.**
2. **Click Install to begin the installation.**
3. **To start the IDE after the installation is complete, leave the Launch Java Studio Enterprise IDE checkbox selected.**
4. **Click Finish.**

The installation program creates a log with information about the installation. By default, this log file resides in the following directories:

Solaris OS platforms: `/var/tmp/jstudio_ent81-installation-timestamp.random-number.log`

Linux platforms: `/tmp/jstudio_ent81-installation-timestamp.random-number.log`

If you followed the instructions in [“Generating an Installation Log File” on page 22](#), the log file also resides in the location you specified before the installation.

5. **If you disabled any firewall applications, enable those firewall applications.**

Note – If you installed Sun Java™ System Application Server 8.2 Platform Edition or Collaboration Runtime, you can find configuration information, such as server port numbers, in the following file:

`java-studio-install-dir/configuration-data.txt`

Starting the IDE

Start the IDE by executing a launcher script.

▼ To Start the IDE

1. Change to the directory that contains the IDE executable.

For example:

```
% cd java-studio-install-dir/ide/bin
```

2. Start the IDE using the following command:

```
% ./jstudio.sh
```

You can specify `jstudio.sh` command options on the command line or in the `java-studio-install-dir/ide/etc/jstudio.conf` file. See [“Using Startup Command-Line Options” on page 33](#).

About the Java Studio Enterprise IDE User Directory

The IDE stores user-specific data in the user directory. Examples of user-specific data are IDE settings and options and other necessary runtime data. The user directory also contains the `messages.log` file, which provides useful information if you need to request technical support. You can find the `messages.log` file in the `user-directory/var/log` directory.

The default location for the user directory is as follows:

- Microsoft Windows platforms:

`%SystemDrive%\Documents and Settings\user-ID\.jstudio\Ent81`

- Solaris OS platforms:

`$HOME/.jstudio/Ent81`

- Linux platforms:

`$HOME/.jstudio/Ent81`

You can specify an alternate location for the user directory by starting the IDE from the command line and using the `--userdir` command line option. See [“Using Startup Command-Line Options” on page 33](#) for additional information.

Using Startup Command-Line Options

You can start the IDE executable with additional command-line options.

You can use the options in the following ways:

- Type the options on the command line
- Put the options in the `java-studio-install-dir/ide/etc/jstudio.conf` file

The IDE reads the `jstudio.conf` file before parsing any command-line options. You can type options on multiple lines in the `jstudio.conf` file.

The following table lists the `jstudio` command-line options.

TABLE 5-1 IDE Startup Options

Option	Description
<code>--help</code> or <code>-h</code>	Prints a description of the available options and their usage.
<code>--jdkhome</code> <i>jdk-home-dir</i>	Specifies the location of a J2SE platform other than the default that was specified during installation.
<code>--cp:p</code> <i>additional-classpath</i>	Prefixes the specified classpath onto the IDE's classpath.
<code>--cp:a</code> <i>additional-classpath</i>	Appends the specified classpath to the IDE's classpath.
<code>--userdir</code> <i>IDE-user-dir</i>	Specifies the <i>IDE-user-dir</i> (the location where your user settings are stored). If this option is not specified, the default location is used. See “About the Java Studio Enterprise IDE User Directory” on page 31 .

TABLE 5-1 IDE Startup Options (*Continued*)

Option	Description
<code>-Jvm-flag</code>	<p>Passes specified flags directly to the Java™ Virtual Machine (JVM™) software.</p> <p><code>-J-Xverify:none</code> Tells the JVM software not to verify the correctness of the bytecode, thereby providing for faster startup time. Setting this flag removes some of the protection that the Java language gives you. Refer to the JVM software documentation for more information.</p> <p><code>-J-Xms24m</code> Sets the initial heap size of the JVM software to 24 MB. This flag prevents the JVM software from extending the heap size during startup, thereby providing a faster startup time.</p> <p><code>-J-Xmx96m</code> Sets the maximum heap size of the JVM software to 96 MB.</p> <p><code>-J-Xss1024k</code> Sets the thread stack size.</p>
<code>--laf <i>UI_class_name</i></code>	<p>Sets the specified UI class as the look and feel class of the IDE.</p> <p>The following are two examples of look and feel classes: <code>com.sun.java.swing.plaf.motif.MotifLookAndFeel</code> and <code>javax.swing.plaf.metal.MetalLookAndFeel</code>.</p>
<code>--fontsize <i>size</i></code>	<p>Sets the font size, expressed in points, in the user interface of the IDE. The default value is 11.</p>

Uninstalling the Java Studio Enterprise Software

An uninstaller is provided to remove the Java Studio Enterprise software.

This chapter covers the following topics:

- [“Uninstalling on the Microsoft Windows Platform” on page 35](#)
- [“Uninstalling on Solaris OS and Linux Platforms” on page 36](#)

Uninstalling on the Microsoft Windows Platform

Use the Sun Java Studio Enterprise 8.1 uninstaller to uninstall the product.



Caution – Do not attempt to uninstall any part of the Java Studio Enterprise software by deleting files. Failure to use the uninstaller will likely result in a corrupted system.

▼ To Uninstall the Software

1. Shut down the IDE.
2. From the Control Panel, select Add or Remove Programs, then select Sun Java™ Studio Enterprise 8.1 and click Change/Remove.
3. Follow the instructions in the uninstaller.

4. When the uninstallation is complete, click Finish.

The program creates a log with information about the uninstallation. This log file (`jstudio_ent81-uninstallation-timestamp.random-number.log`) resides in the following location:

`%SystemDrive%\Documents and Settings\user-ID\Local Settings\Temp`

For example: `C:\Documents and Settings\myUserName\Local Settings\Temp\jstudio_ent81-uninstallation-20060227171256.36051.log`

Uninstalling on Solaris OS and Linux Platforms

Use the Sun Java Studio Enterprise 8.1 uninstaller to uninstall this software from your Solaris OS or Linux system.



Caution – Do not attempt to attempt to uninstall any part of the Java Studio Enterprise software by deleting files. Failure to use the uninstaller will likely result in a corrupted system.

▼ To Uninstall the Software

1. Shut down the IDE.
2. Change to the `java-studio-install-dir/bin/` directory and start the uninstaller by typing:

```
% ./uninstall.sh
```

The uninstaller starts and the Welcome screen appears.

3. Click Next and follow the instructions in the uninstaller.
4. When the uninstallation is complete, click Close.

A successful uninstallation of the Java Studio Enterprise software leaves an empty `java-studio-install-dir` directory.

If your directory contains other files, you might have installed add-on products or the uninstallation might be incomplete. If you uninstalled individual component products, then the remaining product installation directories will still exist.

Installing the Java Studio Enterprise Software Using Silent Mode

Silent installation is useful for installing the Java Studio Enterprise software on multiple hosts that share similar configurations. Silent installation requires that you run the installer once to capture input values in a *state file*. The state file contains your responses as a list of parameters, each representing a single prompt or field. You can then run the installer on many hosts, using the state file as input after editing certain host-specific values. This process propagates one configuration across multiple hosts in your enterprise.

Note – Before you create a state file, perform the same preinstallation steps that you perform for an interactive installation. See [“Before You Install the Java Studio Enterprise Software” on page 9](#) for details.

This chapter covers the following topics:

- [“Guidelines for Using Silent Mode” on page 37](#)
- [“Preparing a State File” on page 38](#)
- [“Running the Installer in Silent Mode” on page 40](#)

Guidelines for Using Silent Mode

Follow these guidelines for successful silent installation:

- Allow the installer to generate the state file, as described in [“Preparing a State File” on page 38](#).

Do not manually create a state file. A state file generated by the installer uses the installer’s real-time dependency checking and error reporting.

- Save a copy of the state file before you make any changes to the file.

- Do not modify parameters, except to edit their values.
 - Do not remove a parameter, even if it does not have a value.
 - Do not add a parameter.
 - Do not change the order in which parameters appear.
- When editing the values, note the original type and format and maintain them as you enter the new value. For example:
 - If the old value starts with a leading slash, make sure that the new value starts with a leading slash.
 - Retain the case of the original value.

Preparing a State File

To prepare a state file, you must first run the installer using command-line options to suppress actual installation.

▼ To Prepare a State File for Microsoft Windows Platform

1. **Log in with administrator privileges.**
2. **In the command prompt window, change to the directory where the installer program is located.**
3. **Start the installer and provide an absolute path name for the state file.**

The format for the installer command is as follows:

```
install-launcher -options-record statefile
```

where *statefile* specifies an absolute path and file name for the state file.

For example:

```
jstudio_ent81-ml-windows.exe -options-record C:\temp\  
SilentStateFile.txt
```

4. Follow the instructions in [“Microsoft Windows: Installing and Starting the Java Studio Enterprise Software” on page 13](#) to complete the installation.

As you respond to the installer, it records all your input values in the state file. When you complete the installation, the state file is available in the location that you specified.

▼ To Prepare a State File for UNIX Platforms

1. In the terminal window, change to the directory where the installer program is located.
2. Start the installer, providing an absolute path name for the state file.

The format for the installer command is as follows:

```
install-launcher -options-record statefile
```

where *install-launcher* is one of the following:

- Solaris OS on SPARC platforms:
jstudio_ent81-ml-solaris-sparc.sh
- Solaris OS on x86 platforms: jstudio_ent81-ml-solaris-x86.sh
- Linux platforms: jstudio_ent81-ml-linux.sh

and where *statefile* specifies the name of the state file.

For example:

```
jstudio_ent81-ml-solaris-x86.sh -options-record  
SilentStateFile.txt
```

3. Follow the instructions in [“Solaris OS and Linux: Installing and Starting the Java Studio Enterprise Software” on page 21](#) to complete the installation.

As you respond to the installer, it records all your input values in the state file. When you complete the installation, the state file is available in the location that you specified.

4. (Optional) Edit the state file to modify values.

Review the information in the state file for details.

Running the Installer in Silent Mode

You must run the installer on a machine that has the same operating system as the machine on which you generated the state file.

▼ To Run the Silent Installer on Microsoft Windows Platforms

1. On the system where you want to install Java Studio Enterprise, log in with the required permissions.
2. Disable desktop firewall software to avoid interference with the port assignment logic used by the installer.
3. Open the command prompt window and change to the directory where the installer program is located.
4. Start the silent installer, providing an absolute path name for the state file.

The format for the silent installer command is as follows:

```
jstudio_ent81-ml-windows.exe -options statefile -silent
```

where *statefile* specifies an absolute path and file name for the state file.

For example:

```
jstudio_ent81-ml-windows.exe -options C:\temp\  
SilentStateFile.txt -silent
```

▼ To Run the Silent Installer on UNIX Platforms

1. On the system where you want to install Sun Java Studio Enterprise 8.1, log in with the required permissions.
2. In a terminal window, change to the directory where the installer program is located.

3. Start the silent installer, providing the name of the state file.

The format for the silent installer command is as follows:

```
install-launcher -options statefile -silent
```

where *install-launcher* is one of the following:

- Solaris OS on SPARC platforms:
jstudio_ent81-ml-solaris-sparc.sh
- Solaris OS on x86 platforms: jstudio_ent81-ml-solaris-x86.sh
- Linux platforms: jstudio_ent81-ml-linux.sh

and where *statefile* specifies the name of the state file.

For example:

```
jstudio_ent81-ml-solaris-x86.sh -options SilentStateFile.txt -  
silent
```


Using the Collaboration Runtime

The Java Studio Enterprise software includes functionality for enterprise collaboration. To enable the collaboration functions in the IDE, install the Collaboration Runtime when you install the IDE and then start the Collaboration Runtime.

Note – The Developer Collaboration feature requires communication with the server on a specific port. If you use a firewall, be sure to allow outgoing traffic from the IDE to that port on the Instant Messaging (IM) server.

The IDE supports connection to an IM server using an HTTP proxy, but not the use of an HTTPS proxy that requires authentication. To find the port that the server expects to use for communication, see [“Finding and Changing the Collaboration Runtime Port” on page 47](#).

This chapter covers the following topics:

- [“Starting the Collaboration Runtime” on page 44](#)
- [“Configuring the Collaboration Runtime Service \(Microsoft Windows\)” on page 45](#)
- [“Changing the Collaboration Logging Options” on page 45](#)
- [“Stopping the Collaboration Runtime” on page 46](#)
- [“Finding and Changing the Collaboration Runtime Port” on page 47](#)

Starting the Collaboration Runtime

Start the Collaboration Runtime from the Start Menu (Windows) or the command line (Solaris OS). The Collaboration Runtime is configured to start automatically when a Microsoft Windows system is started. You can change this configuration using the Microsoft Windows Control Panel. See [“Configuring the Collaboration Runtime Service \(Microsoft Windows\)”](#) on page 45.

▼ (Microsoft Windows Platform) To Start the Collaboration Runtime

- Choose **Start → Programs → Sun Microsystems → Java Studio Enterprise 8.1 → Collaboration Runtime → Start Collaboration Runtime**

▼ (Solaris OS and Linux Platforms) To Start the Collaboration Runtime

1. If you installed the Collaboration Runtime as `root`, log in as `root`.
2. Change to the installation directory that contains the executable.

```
% cd java-studio-install-dir/collab/bin
```

3. Start the Collaboration Runtime process.

```
% ./xmppd start
```

Configuring the Collaboration Runtime Service (Microsoft Windows)

The Collaboration Runtime is installed as a Microsoft Windows service. The default setting automatically starts the Collaboration Runtime when your Windows system starts.

▼ To Configure the Collaboration Runtime Service

1. **From the Control Panel, open Administrative Tools, and then Services.**

2. **Right-click the entry labeled Collaboration Runtime Service.**

This is the default service name for the Collaboration Runtime. It might differ if you specified another name for the Collaboration Runtime service during the installation of the Java Studio Enterprise. See [“To Continue an Installation With a Preinstalled Application Server”](#) on page 18.

3. **From the contextual menu, choose Properties.**

4. **In the Properties dialog box, on the General tab, define the type of startup for the service by selecting one of the values from the Startup type drop-down list.**

The default Startup type is Automatic, which means that the service starts when Windows starts.

Changing the Collaboration Logging Options

▼ To Change the Collaboration Logging Options

To assist you with troubleshooting, you can turn on debug logging for the Collaboration Runtime.

1. **Locate the Collaboration Runtime configuration file at:**

`java-studio-install-dir/collab/config/xmppd.conf`

2. To turn on debug logging, open the configuration file in a text editor and set

```
iim.log.iim_server.severity=DEBUG
```

You can find the log file (`xmppd.log`) in the following location:

```
java-studio-install-dir/collab/log/
```

Stopping the Collaboration Runtime

▼ (Microsoft Windows Platform) To Stop the Collaboration Runtime

- Choose Start → Programs → Sun Microsystems → Java Studio Enterprise 8.1 → Collaboration Runtime → Stop Collaboration Runtime

▼ (Solaris OS and Linux Platforms) To Stop the Collaboration Runtime

1. Change to the installation directory that contains the executable.

```
% cd java-studio-install-dir/collab/bin
```

2. Stop the Collaboration Runtime process.

```
% ./xmppd stop
```

Finding and Changing the Collaboration Runtime Port

▼ To Find and Change the Collaboration Runtime Port

1. Stop the Collaboration Runtime.

2. Open the *java-studio-install-dir/collab/config/xmppd.conf* file in a text editor.

The line that starts with `iim_server.port=` specifies the Collaboration Runtime port.

3. To change the port, enter a new value for the `iim_server.port` variable and save your changes.

For example:

```
iim_server.port=5225
```

4. Start the Collaboration Runtime.

The Collaboration Runtime now runs in the port you specified.

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