



# Sun GlassFish Communications Server 1.5 Installation Guide



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# Preface

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This Installation Guide contains instructions for installing and uninstalling Communications Server.

This preface contains information about and conventions for the entire Sun GlassFish™ Communications Server documentation set.

## Sun GlassFish Communications Server Documentation Set

TABLE P-1 Books in the Communications Server Documentation Set

Book Title	Description
<i>Documentation Center</i>	Communications Server documentation topics organized by task and subject.
<i>Release Notes</i>	Late-breaking information about the software and the documentation. Includes a comprehensive, table-based summary of the supported hardware, operating system, Java™ Development Kit (JDK™), and database drivers.
<i>Quick Start Guide</i>	How to get started with the Communications Server product.
<i>Installation Guide</i>	Installing the software and its components.
<i>Application Deployment Guide</i>	Deployment of applications and application components to the Communications Server. Includes information about deployment descriptors.
<i>Developer's Guide</i>	Creating and implementing Java Platform, Enterprise Edition (Java EE platform) applications intended to run on the Communications Server that follow the open Java standards model for Java EE components and APIs. Includes information about developer tools, security, debugging, and creating lifecycle modules.
<i>Java EE 5 Tutorial</i>	Using Java EE 5 platform technologies and APIs to develop Java EE applications.
<i>Java WSIT Tutorial</i>	Developing web applications using the Web Service Interoperability Technologies (WSIT). Describes how, when, and why to use the WSIT technologies and the features and options that each technology supports.
<i>Administration Guide</i>	System administration for the Communications Server, including configuration, monitoring, security, resource management, and web services management.

TABLE P-1 Books in the Communications Server Documentation Set (Continued)

Book Title	Description
<i>High Availability Administration Guide</i>	Setting up clusters, working with node agents, and using load balancers.
<i>Administration Reference</i>	Editing the Communications Server configuration file, <code>domain.xml</code> .
<i>Performance Tuning Guide</i>	Tuning the Communications Server to improve performance.
<i>Reference Manual</i>	Utility commands available with the Communications Server; written in man page style. Includes the <code>asadmin</code> command line interface.

## Default Paths and File Names

The following table describes the default paths and file names that are used in this book.

TABLE P-2 Default Paths and File Names

Placeholder	Description	Default Value
<i>as-install</i>	Represents the base installation directory for Communications Server.	Solaris™ and Linux installations, non-root user: <i>user's-home-directory/SUNWappserver</i>  Solaris and Linux installations, root user: <i>/opt/SUNWappserver</i>  Windows, all installations: <i>SystemDrive:\Sun\AppServer</i>
<i>domain-root-dir</i>	Represents the directory containing all domains.	All installations: <i>as-install/domains/</i>
<i>domain-dir</i>	Represents the directory for a domain.  In configuration files, you might see <i>domain-dir</i> represented as follows:  <code>\${com.sun.aas.instanceRoot}</code>	<i>domain-root-dir/domain-dir</i>
<i>instance-dir</i>	Represents the directory for a server instance.	<i>domain-dir/instance-dir</i>
<i>samples-dir</i>	Represents the directory containing sample applications.	<i>as-install/samples</i>
<i>docs-dir</i>	Represents the directory containing documentation.	<i>as-install/docs</i>

## Typographic Conventions

The following table describes the typographic changes that are used in this book.

TABLE P-3 Typographic Conventions

Typeface	Meaning	Example
AaBbCc123	The names of commands, files, and directories, and onscreen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>machine_name% you have mail.</code>
<b>AaBbCc123</b>	What you type, contrasted with onscreen computer output	<code>machine_name% su</code> Password:
<i>AaBbCc123</i>	A placeholder to be replaced with a real name or value	The command to remove a file is <i>rm filename</i> .
<i>AaBbCc123</i>	Book titles, new terms, and terms to be emphasized (note that some emphasized items appear bold online)	Read Chapter 6 in the <i>User's Guide</i> . <i>A cache</i> is a copy that is stored locally. Do <i>not</i> save the file.

## Symbol Conventions

The following table explains symbols that might be used in this book.

TABLE P-4 Symbol Conventions

Symbol	Description	Example	Meaning
[ ]	Contains optional arguments and command options.	<code>ls [-l]</code>	The <code>-l</code> option is not required.
{   }	Contains a set of choices for a required command option.	<code>-d {y n}</code>	The <code>-d</code> option requires that you use either the <code>y</code> argument or the <code>n</code> argument.
`\${ }	Indicates a variable reference.	<code>\${com.sun.javaRoot}</code>	References the value of the <code>com.sun.javaRoot</code> variable.
-	Joins simultaneous multiple keystrokes.	Control-A	Press the Control key while you press the A key.
+	Joins consecutive multiple keystrokes.	Ctrl+A+N	Press the Control key, release it, and then press the subsequent keys.

TABLE P-4 Symbol Conventions (Continued)

Symbol	Description	Example	Meaning
→	Indicates menu item selection in a graphical user interface.	File → New → Templates	From the File menu, choose New. From the New submenu, choose Templates.

## Documentation, Support, and Training

The Sun web site provides information about the following additional resources:

- Documentation (<http://www.sun.com/documentation/>)
- Support (<http://www.sun.com/support/>)
- Training (<http://www.sun.com/training/>)

## Third-Party Web Site References

Third-party URLs are referenced in this document and provide additional, related information.

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# Installing Sun GlassFish Communications Server

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This chapter provides instructions for installing the Sun GlassFish Communications Server software available from the Sun download site. It also has instructions on how to install SailFin, the open source implementation of Sun GlassFish Communications Server.

You can choose to use either the file-based installer available from the [Sun Download site](#) or the JAR-based installer available from [java.net](#). The following topics are discussed:

- “Distribution Types and Their Components” on page 7
- “Installing Sun GlassFish Communications Server With File-based Installer” on page 8
- “Installing Sun GlassFish Communications Server With JAR-based Installer” on page 16
- “Registering Your Installation of Sun GlassFish Communications Server” on page 17

## Distribution Types and Their Components

The various distributions and their components are as follows:

- Sun GlassFish Communications Server - Includes the Sun GlassFish Enterprise Server software with added SIP capabilities, converged load balancer, Java DB, and Message Queue 4.1. Communications Server is available from <http://www.sun.com/download> as a file-based installer, which offers both graphic and command-line modes for installation. JDK 1.6 is bundled with the file-based installer for Communications Server.
- SailFin: Open source implementation of Sun GlassFish Communications Server. This distribution is available as a JAR file from <https://sailfin.dev.java.net> and includes an Ant distribution that has been extended with tasks to facilitate developing applications.

# Installing Sun GlassFish Communications Server With File-based Installer

If you are using the Sun GlassFish Communications Server file-based installer available from the Sun Download page, use one of the following procedures:

- “To Install Sun GlassFish Communications Server in GUI or CLI Mode” on page 8
- “To Install Sun GlassFish Communications Server in Silent Mode” on page 10

## ▼ To Install Sun GlassFish Communications Server in GUI or CLI Mode

**Before You Begin** Use this procedure if you are using the Graphic User Interface (GUI) or Command-Line Interface (CLI) mode of the file-based installer for Sun GlassFish Communications Server. Verify that your system meets the requirements specified in the Release Notes.

Solaris and Linux installations support both root and non-root user installations. Users of Windows installations should have Power User or Administrator access. If you are installing as a non-root user on Solaris or Linux, you must have read-write access to the following directories:

- The installation directory you select
- The home directory of the installation user
- The /var/tmp directory
- The /tmp directory
- The web server installation directory and the web server instance directory, if applicable.

**1** Navigate to the directory where you downloaded the distribution file.

**2** If you have downloaded a .bin file, change the permission of the distribution file so that you have execute access:

```
chmod +x distribution_filename
```

**3** Run the installation program.

- If you are installing from a .bin file on Solaris or Linux, use the following command to run the installation program :

```
./distribution_filename
```

Use the -console option to run the installation program in command-line mode. It is recommended that you use the -javahome option if you are running the installation program on Solaris x86 platform.



- **If you are installing from an .exe file on Windows, double-click the file.**

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**Note** – If you are installing Sun GlassFish Communications Server on a 64-bit machine (running a 64-bit operating system), use a 32-bit JDK to install Sun GlassFish Communications Server on your 64-bit machine. You will need to use the following command: `./distribution_filename -javahome path to 32-bit JDK location`

After installation, download the 64-bit JDK from [java.sun.com](http://java.sun.com/javase/6/) (<http://java.sun.com/javase/6/>). Edit the value of the AS\_JAVA variable in the asenv.conf file to point to the 64-bit JDK installation, so that Sun GlassFish Communications Server uses the 64-bit JDK.

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- 4 Read and accept the license agreement.**
- 5 In the Administration Configuration page (or when prompted at the command line), enter the following fields and click Next.**
  - Admin User Name – Name of the user who administers the server.
  - Password – Admin user’s password to access the Admin Server (8-character minimum).
  - Choose whether you want to be prompted for the Admin User Name and Password.
  - Admin Port – Administration port number for initial server instance. The default value is 4848.
  - HTTP Port - Port number to access the default server instance. The default is 8080
  - HTTPS Port - Secure port number to access the default server instance. The default is 8181
- 6 In the SIP Configuration page, provide the following configuration information and click Next.**
  - SIP Port – The port on which SIP listener listens for SIP requests. The default value is 5060.
  - SIPS Port – Secure SIP port. The default value is 5061.
  - Choose whether you want an installation with clustering capabilities or an installation without clustering capabilities.  
For more information on clustering, see the Clustering section in the High-Availability Administration guide.

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**Note** – The installation program automatically detects ports in use and suggests unused ports for the default settings.

In addition, five other ports are automatically assigned. You can change the automatically assigned values after installation using the Admin Console. The ports are assigned with the following default values:

- Message Queue – The default is 7676
- IIOP – The default is 3700 for IIOP, and 3820 and 3890 for IIOP/SSL

- JMX™ – The default is 8686

If these default port numbers are in use, the installation program assigns random port numbers from the dynamic port range. This number may not be the next available port number.

---

**7 In the Installation Options page, select the options that you want. Click Next**

The following installation options are available:

- Enable UpdateCenter Client – Select this option to enable Updatecenter to check for available updates and collect system data.
- Register Application Server – Select this option if you want to register your installation of application server. A registration form will be displayed after installation.
- Create Desktop Shortcut to the AutoDeploy directory – Select this option to automatically deploy items dragged to this directory. You see this option only if you are using Windows.
- Add bin Directory to PATH – Select this option to add *as-install/bin* to the PATH variable for simplifying the process of running the server and tools from the command line. You see this option only if you are using Windows.
- Create Windows Service – Select this option to create a Windows service to start and stop Application Server,

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**Note** – To create a Windows service, the *sc.exe* utility must be available on the system. Windows 2000 users may need to install the Windows 2000 Resource Kit to get this utility. For other supported Windows versions, the utility is included in the operating system.

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**8 On the Ready to Install page, click Install Now.**

**9 After installation completes, use the Registration Options screen for registering your installation of application server. For instructions, see “[To Register Your Installation of Sun GlassFish Communications Server](#)” on page 17.**

**10 Verify the installation by following the procedures in the [Sun GlassFish Communications Server 1.5 Quick Start Guide](#), located in *as-install/docs/QuickStart.html* or on [docs.sun.com](#).**

## ▼ **To Install Sun GlassFish Communications Server in Silent Mode**

You can use this procedure only with the Sun GlassFish Communications Server file-based installer. SailFin does not offer silent mode installation. The silent mode involves using a installation configuration file for installing in a non-interactive mode.

## 1 Create the installation configuration file by running one of the following commands:

- **On Solaris or Linux for GUI mode:**

`./distribution_filename -savestate configuration_filename`

- **On Solaris or Linux for CLI mode:**

`./distribution_filename -console -savestate configuration_filename`

- **On Windows for GUI mode:**

`distribution_filename -savestate configuration_filename`

- **On Windows for CLI mode:**

`distribution_filename -console -savestate configuration_filename`

The installation configuration file is created when you use the `savestate` option when starting an interactive installation. During the interactive installation, your input is collected and stored in the configuration file you specified. This file forms the template for silent installation, which you can use later to install the product on one or more machines. If needed, you can modify the installation configuration file.

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**Note** – If you do not include a path to the installation configuration file, the file is created in the directory where you are running the installation program.

---

## 2 Modify the following variables in the installation configuration file, as required.

Variable Name	Valid Values	Content	Comments
Build ID		The string of characters following the distribution in the STATE_BEGIN and STATE_END sections. This value is automatically generated.	No need to alter this value unless installing a different distribution file than the one that produced the configuration file. To find the build ID, enter <code>distribution_filename -id</code> at the command prompt.
defaultInstallDirectory		Default installation directory path.	
currentInstallDirectory		Selected absolute installation directory path.	
INST_ASADMIN_USERNAME		Administrator user name for initial server instance.	

INST_ASADMIN_PASSWORD		Administrator password for initial server instance.	This entry is obfuscated by default.  See also:ADMIN_PASSWORD_ENCRYPTED.
INST_ASADMIN_PORT	0 - 65535	Administration server port number for initial server instance.	Default value is 4848.
INST_ASWEB_PORT	0 - 65535	HTTP port number for initial server instance.	Default value is 8080.
INST_HTTPS_PORT	0 - 65535	HTTPS port number for initial server instance.	Default value is 8081.
STORE_ADMIN_AUTH	TRUE, FALSE	Whether to create admin authentication user preference file.	
ADMIN_PASSWORD_ENCRYPTED	TRUE, FALSE	Obfuscated admin password flag.	In the initial statefile created by the product installer, this flag is set to TRUE, since the admin password value is obfuscated for security reasons.  To override the value for admin password, enter INST_ASADMIN_PASSWORD value in clear text and set this flag to FALSE to enable silent installation to process it correctly.
INST_JMS_PORT	0 - 65535	JMS port number for initial server instance.	If the configuration file does not include this entry, default value of 7676 is used.
INST_ORB_PORT	0 - 65535	ORB port number for initial server instance.	If the configuration file does not include this entry, default value of 3700 is used.
INST_ORB_SSL_PORT	0 - 65535	Secure ORB port number for initial server instance.	If the configuration file does not include this entry, default value of 3820 is used.
INST_ORB_MUTUALAUTH_PORT	0 - 65535	Mutual authentication ORB port number for initial server instance.	If the configuration file does not include this entry, default value of 3920 is used.
INST_JMX_PORT	0 - 65535	JMX port number for initial server instance.	If the configuration file does not include this entry, default value of 8686 is used.

CREATE_DESKTOP_SHORTCUT	TRUE, FALSE	Whether to create autodeploy folder desktop shortcut.	Valid for Windows platforms only and is disregarded otherwise.
UPDATE_PATH	TRUE, FALSE	Whether to update PATH environment variable to include Communications Server bin directory.	Valid only for Windows platforms and is disregarded otherwise. If this entry is not present, default value of FALSE is used.
CREATE_WINDOWS_SERVICE	TRUE, FALSE	Whether to create the server as a Windows service.	Valid for Windows platforms only and is disregarded otherwise.
SELECTED_ADDONS	JBI	Add-ons selected for installation. If no add-ons are selected, the value is blank.	Valid for Java EE SDK SOA Starter Kit Preview installations only and is disregarded otherwise.
CREATE_DAS	TRUE, FALSE	Creates a DAS if set to TRUE. The default domain is named <code>domain1</code> and is created under default <code>domain-root-dir</code> .	Creates the default domain and installs the software components that are required to run the DAS.
CREATE_NA	TRUE, FALSE	Creates a node agent if set to TRUE. The default node agent would be named <code>agent1</code> and is created under default node agents root.	Creates the default node agent and installs the software components that are required to run the node agent.
WEBSERVER_INSTALL_DIR	A valid, read-writable directory location.	Installation directory of a supported Web server.	Used only when the load balancing plug-in component is selected for installation.
WEBSERVER_INSTANCE_DIR	A valid read-writable directory location.	Instance directory of selected web server where the load balancing plug-in will be configured.	Used when load balancing plug-in component is selected to be installed on Sun Java System Web Server. Not applicable for other web servers.

PLUGIN_TYPE	Sun Java System Web Server, Apache HTTP Server, or Microsoft IIS Web Server.	Type of web server on which the load balancing plug-in will be installed/configured.	Used only when the load balancing plug-in component is selected for installation.
PLUGIN_CERTIFICATE_FILE	A valid path to a certificate file.		Used only when Apache HTTP Server is selected for load balancing plug-in installation. Not supported or is ignored for other web servers.

**3 Modify the following Communications Server variables in the installation configuration file, as required.**

Variable Name	Valid Values	Content	Comments
SIP_PORT	0 - 65535	SIP port number.	Default value is 5060.
SIPS_PORT	0 - 65535	Secure SIP port number.	Default value is 5061.
IS_CLUSTER	TRUE, FALSE	Whether to set up Communications Server with clustering capabilities.	Default value is TRUE. If this variable is set to TRUE, the default domain will be set up with cluster profile. If this variable is set to FALSE, the default domain will be set up with developer profile.

**4 Modify the following product registration variables in the installation configuration file, as required.**

Product registration values are REGISTRATION\_OPTION, PROXY\_HOST, PROXY\_PORT, USER\_NAME, USER\_PASSWORD, FIRST\_NAME, LAST\_NAME, CCOMPANY\_NAME, and COUNTRY.

- 5 Copy your installation configuration file to each machine where you plan to install the software.**
- 6 Copy the Communications Server distribution file to each machine where you plan to install the software.**
- 7 Navigate to the directory where you copied the distribution file.**

## 8 Start silent installation at the command line using one of the following command formats:

- **On Solaris or Linux:**

*./distribution\_filename -silent configuration\_filename*

- **On Windows:**

*distribution\_filename -silent configuration\_filename*

The installation program reads the specified *configuration\_filename*, checks for adequate disk space, then installs the product based on the data in *configuration\_filename*.

When the prompt is returned, the silent installation is complete and the installation components are installed on your systems.

## Installation Configuration File Example

### EXAMPLE 1-1 Installation Configuration File

```
#
# Wizard Statefile created: Tue Nov 25 12:29:41 IST 2008
#           Wizard path: /tmp/cs194067/sgcs-AAAR9ayjL/appserv.class
#

#
# Install Wizard Statefile section for Sun GlassFish Communications Server
#
#
[STATE_BEGIN Sun GlassFish Communications Server 5d15]
defaultInstallDirectory = /SUNWappserver
currentInstallDirectory = /space/SGCS
INST_ASADMIN_USERNAME = admin
INST_ASADMIN_PASSWORD = nmreluivboeynacnojzvanqzva
INST_MASTER_PASSWORD = pcfrokdhjbnpnyyohvgunatrvg
INST_ASADMIN_PORT = 4848
INST_ASWEB_PORT = 8080
INST_HTTPS_PORT = 8181
STORE_ADMIN_AUTH = TRUE
ADMIN_PASSWORD_ENCRYPTED = TRUE
INST_JMS_PORT = 7676
INST_ORB_PORT = 3700
INST_ORB_SSL_PORT = 3820
INST_ORB_MUTUALAUTH_PORT = 3920
INST_JMX_PORT = 8686
INST_SIP_PORT = 5060
INST_SIPS_PORT = 5061
IS_CLUSTER = true
```

EXAMPLE 1-1 Installation Configuration File (Continued)

```
CREATE_DESKTOP_SHORTCUT = FALSE
UPDATE_PATH = FALSE
CREATE_UPDATE_ICON =
CREATE_WINDOWS_SERVICE = FALSE
PROXY_HOST =
PROXY_PORT =
REGISTRATION_OPTION =
USER_NAME =
USER_PASSWORD =
REGISTRATION_OPTION = YES
USER_NAME = John
USER_PASSWORD = nmreluivboeyn
FIRST_NAME = John
LAST_NAME = Doe
COMPANY_NAME = Sun Microsystems
COUNTRY = USA
[STATE_DONE Sun GlassFish Communications Server 5d15]
```

## Installing Sun GlassFish Communications Server With JAR-based Installer

This section provides instructions for installing SailFindistribution, which is available as a JAR-based installer..

### ▼ To Install Sun GlassFish Communications Server With JAR-Based Installer

**Before You Begin** Get JDK 6 from <http://java.sun.com/javase/>, if you are using Solaris, Linux, or Windows.

If you are using Mac OS X, you need to download JDK from <http://developer.apple.com/java/download/> and make JDK the default JVM.

- 1 **Download the SailFin distribution from**  
<https://sailfin.dev.java.net/downloads/downloads.html>.
- 2 **Set the environment variable `JAVA_HOME` to point to the directory in which JDK is installed.**

- 3 **Run the following command:**  
`java -Xmx256m -jar filename.jar`



---

**Note** – If you have trouble running this command, run this command with a higher `-Xmx` value. Example, `java -Xmx512m -jar filename.jar`

---

**4 Navigate to the `sailfin` directory:**

```
cd sailfin
```

**5 If you are using operating system that is a derivative of UNIX:**

```
chmod -R +x lib/ant/bin
```

**6 Run one of the following commands:**

▪ **If you want SailFin with clustering, run the following command:**

```
lib/ant/bin/ant -f setup-cluster.xml
```

Or, for Windows: `lib\ant\bin\ant -f setup-cluster.xml`

▪ **If you want SailFin without clustering, run the following command:**

```
lib/ant/bin/ant -f setup.xml
```

Or, for Windows: `lib\ant\bin\ant -f setup.xml`

**7 Use the Admin Console to register your installation of SailFin. Start SailFin using the instructions in the Quick Start guide.**

## Registering Your Installation of Sun GlassFish Communications Server

This section explains how to register your installation of Sun GlassFish Communications Server with [Sun Connection](http://www.sun.com/service/sunconnection/index.jsp) (<http://www.sun.com/service/sunconnection/index.jsp>).

### ▼ To Register Your Installation of Sun GlassFish Communications Server

You can register your installation of Communications Server from the file-based installer in GUI mode. Alternatively, you can register later by using the Registration node in the Admin Console of Communications Server or through the Update Center.

To register your installation of Communications Server with [Sun Connection](http://www.sun.com/service/sunconnection/index.jsp) (<http://www.sun.com/service/sunconnection/index.jsp>), you must have a [Sun Online](#)

[Account \(https://reg.sun.com/whyregister\)](https://reg.sun.com/whyregister). If you do not have a Sun Online Account, the Communications Server installer enables you to create an account while registering Application Server.

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**Note** – If you create a Sun Online Account while registering Communications Server, you are prompted only for the required information. You can provide additional, optional information by [updating your Sun Online Account \(https://reg.sun.com/updateaccount\)](https://reg.sun.com/updateaccount).

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- **In the Product Registration screen, provide the required information as follows:**
  - **If you already have a Sun Online Account, provide the required information as follows:**
    - a. **Select the I Already Have a Sun Online Account option.**
    - b. **In the User Name field, type the user name that you specified when registered for your Sun Online Account.**
    - c. **In the Password field, type that you specified when registered for your Sun Online Account.**
    - d. **Click Register.**
  - **If you do not have a Sun Online Account, provide the required information as follows:**
    - a. **Select the I Don't Have a Sun Online Account option.**
    - b. **In the Email Address field, type your email address.**  
Your email address will be your Sun Online Account user name.
    - c. **In the Password field, type the password to use for your Sun Online Account.**  
The password is case sensitive and must be 6 – 10 characters long.
    - d. **In the Retype Password field, retype the password that you typed in the preceding step.**
    - e. **Complete the remaining fields and click Register.**
  - **Choose the Skip Registration option if you want to register later through the Admin Console or through the Update Center.**

# Uninstalling Sun GlassFish Communications Server

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This chapter has instructions for uninstalling Communications Server file-based installations and for JAR installations. It is important to use the uninstall routine described here. If you attempt another method, problems arise when you try to reinstall the same version or when you install a newer version.

## Uninstalling Sun GlassFish Communications Server With File-Based Installer

Use this procedure if you have installed the Sun GlassFish Communications Server available from <http://www.sun.com/downloads> using the file-based installer.

Before you run the uninstallation program, stop all clustered instances and node agents, if any, and then stop all domains. If you do not stop all domains before the uninstallation, orphaned processes might exist on your system after the uninstallation. On UNIX® platforms, identify the processes using the `ps -ef` command and terminate them using the `kill` command.

To uninstall the Communications Server software, perform the following steps.

### ▼ To Run the Uninstallation Program on UNIX

**Before You Begin** Make sure that you have stopped all domains and other related processes, command prompts using the installation directory or its subdirectories, and any applications using Java Platform, Standard Edition (Java SE) files bundled with the product.

- 1 **Navigate to your Communications Server installation directory.**

**2 Invoke the uninstallation program as follows:**

- **To use the uninstallation in GUI mode, type:**  
`./uninstall`
- **To use the uninstallation in command-line mode, type:**  
`./uninstall -console`

## ▼ **To Run the Uninstallation Program on Windows**

**Before You Begin** Make sure that you have stopped all domains and other related processes, and command prompts using the installation directory or its subdirectories, and any applications using Java SE files bundled with the product.

- **Invoke the Uninstallation program in one of the following ways:**
  - **Under the Sun Microsystems, Application Server program group in the Start Programs area of your desktop, click Uninstall.**
  - **Invoke the uninstall program through the Control Panel:**
    - a. **Navigate to the Control Panel.**
    - b. **Choose Add/Remove Programs.**
    - c. **From the list of installed programs, select Sun GlassFish Communications Server.**
    - d. **Click Remove.**

**Next Steps** After uninstallation is complete, carefully examine the installation directory contents and remove the remaining files or directories that you do not require.

# Uninstalling Sun GlassFish Communications Server with JAR-Based Installer

Use this procedure if you have downloaded the JAR-based installer from <https://sailfin.dev.java.net>.

Make sure that you have stopped all domains and other related processes, command prompts using the installation directory or its subdirectories, and any applications using Java Platform, Standard Edition (Java SE) files bundled with the product.

To uninstall SailFin , perform the following steps:

1. Change to the directory containing the `sailfin` directory.
2. On Solaris/UNIX, run the following command: `rm -r sailfin` . On Windows, in the Explorer window, choose the `sailfin` directory and delete all its contents.

