



Sun GlassFish Communications Server 2.0 Upgrade Guide



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Preface

This Upgrade guide describes how to upgrade from older versions of Communications Server to Sun GlassFish™ Communications Server 2.0.

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>
AaBbCc123	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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Upgrading a Communications Server Installation

You can upgrade an earlier installation of Communications Server to Communications Server 2.0 and replicate the configuration of a previously installed server in the target installation. Communications Server provides assistance in upgrading the configuration, applications, and certificate data .

This chapter discusses the following topics:

- [“Supported Upgrade Paths” on page 9](#)
- [“Upgrade Scenarios” on page 10](#)
- [“Upgrading Communications Server Runtime Binaries” on page 10](#)
- [“Upgrading Configuration and Deployed Applications” on page 11](#)

Supported Upgrade Paths

The following table shows supported Communications Server upgrade paths for file-based installations.

TABLE 1-1 Supported Upgrade Paths

Source Installation	Target Installation
Communications Server 1.5 Developer profile	Communications Server 2.0 Developer profile
Communications Server 1.5 Cluster profile	Communications Server 2.0 Cluster profile

Upgrade Scenarios

The upgrade scenarios are as follows:

- “Side-by-Side Upgrade” on page 10
- “In-Place Upgrade” on page 10

Side-by-Side Upgrade

The source server and the target server are installed in different install locations. You can choose to perform this type of upgrade if you wish to have the configuration corresponding to these installations on the same machine in different locations.

A side-by-side upgrade involves the following sequence of tasks

1. “Upgrading Communications Server Runtime Binaries” on page 10
2. “Upgrading Configuration and Deployed Applications” on page 11.

In-Place Upgrade

The target server is installed in the same installation location as the source server. You can choose to perform this type of upgrade if you wish to install the configuration (that is, the domains) in the same location as before. In this scenario, you install the binaries in the same location as the existing binaries using the installer.

An in-place upgrade involves the following sequence of tasks:

1. “Upgrading Communications Server Runtime Binaries” on page 10
2. “Upgrading Configuration and Deployed Applications” on page 11.

Upgrading Communications Server Runtime Binaries

Use the Communications Server file-based installer to install the target server binaries. You can install in-place (in the same location as your earlier installation) or side-by-side (in a different location). For instructions on how to use the file-based installer, see [Sun GlassFish Communications Server 2.0 Installation Guide](#).

Upgrading Configuration and Deployed Applications

You cannot perform an upgrade if the source and target server file systems, specifically the domain root file system, are not accessible from the same machine. To perform the upgrade, the user who runs the upgrade needs to have Read permissions for the source and target directories and Write permission for the target directory.

The upgrade process will merge the source domain configuration and the new target domain configuration. The upgrade process is started when you invoke the `asadmin start-domain` command after upgrading the binaries.

▼ To Upgrade Communications Server 1.5 Configuration and Deployed Applications

This procedure assumes that Communications Server 1.5 is installed in *source-install-dir*. The default domain, `domain1` is running. Deployed applications, clusters, and node agents are also running. The following procedure enables you to upgrade the configuration of the default domain.

- 1 **Install Communications Server 2.0 in *target-install-dir*. This installation should have the same profile as the Communications Server 1.5 installation in *source-install-dir*.**

- 2 **Navigate to the `config` directory of the Communications Server 2.0 installation.**

```
cd target-install-dir/config
```

- 3 **Open the `asenv.conf` file. Point the `AS_ACC_CONFIG` and `AS_DEF_DOMAINS_PATH` variables to corresponding Communications Server 1.5 locations as follows:**

```
AS_ACC_CONFIG=source-install-dir/domains/domain1/config/sun-acc.xml
```

```
AS_DEF_DOMAINS_PATH=source-install-dir/domains
```

- 4 **Stop the Communications Server 1.5 node agents and domain.**

- 5 **Start the Communications Server 2.0 domain.**

The command to start the default domain is as follows:

- `cd target-install-dir/bin`
- `target-install-dir/bin>asadmin start-domain domain1`

- 6 **Start the Communications Server 1.5 node agent from the Communications Server 2.0 installation.**

```
target-install-dir/bin>asadmin start-node-agent -syncinstances=true --agentdir
source-install-dir/nodeagents/ node-agent-name
```

Repeat this step for all node agents on the domain.

7 Launch the deployed applications.

There is no need to stop and restart the clusters, instances, and databases.

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