



Using the GlassFish ESB Installation CLI



Sun Microsystems, Inc.
4150 Network Circle
Santa Clara, CA 95054
U.S.A.

Part No: 821-0916-11
December 2009

Copyright 2009 Sun Microsystems, Inc. 4150 Network Circle, Santa Clara, CA 95054 U.S.A. All rights reserved.

Sun Microsystems, Inc. has intellectual property rights relating to technology embodied in the product that is described in this document. In particular, and without limitation, these intellectual property rights may include one or more U.S. patents or pending patent applications in the U.S. and in other countries.

U.S. Government Rights – Commercial software. Government users are subject to the Sun Microsystems, Inc. standard license agreement and applicable provisions of the FAR and its supplements.

This distribution may include materials developed by third parties.

Parts of the product may be derived from Berkeley BSD systems, licensed from the University of California. UNIX is a registered trademark in the U.S. and other countries, exclusively licensed through X/Open Company, Ltd.

Sun, Sun Microsystems, the Sun logo, the Solaris logo, the Java Coffee Cup logo, docs.sun.com, Java, and Solaris are trademarks or registered trademarks of Sun Microsystems, Inc. or its subsidiaries in the U.S. and other countries. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. in the U.S. and other countries. Products bearing SPARC trademarks are based upon an architecture developed by Sun Microsystems, Inc.

The OPEN LOOK and SunTM Graphical User Interface was developed by Sun Microsystems, Inc. for its users and licensees. Sun acknowledges the pioneering efforts of Xerox in researching and developing the concept of visual or graphical user interfaces for the computer industry. Sun holds a non-exclusive license from Xerox to the Xerox Graphical User Interface, which license also covers Sun's licensees who implement OPEN LOOK GUIs and otherwise comply with Sun's written license agreements.

Products covered by and information contained in this publication are controlled by U.S. Export Control laws and may be subject to the export or import laws in other countries. Nuclear, missile, chemical or biological weapons or nuclear maritime end uses or end users, whether direct or indirect, are strictly prohibited. Export or reexport to countries subject to U.S. embargo or to entities identified on U.S. export exclusion lists, including, but not limited to, the denied persons and specially designated nationals lists is strictly prohibited.

DOCUMENTATION IS PROVIDED "AS IS" AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

Contents

Using the GlassFish ESB Installation CLI	5
Overview of CLI Installations	6
Installation Process	6
Installation Command Summary	6
Complete Command Line Interface Installation	7
Important Installation Notes	7
Component Pack Graphical User Interface Installation	7
Installing the JDK Software and Setting JAVA_HOME	8
▼ To Install the JDK Software and Set JAVA_HOME on a UNIX System	8
▼ To Install the JDK Software and Set JAVA_HOME on a Windows System	9
Generating the State File for Silent Installations	10
▼ To Generate the State File for Silent Installations	10
Installing GlassFish ESB Silently Using Custom Settings	12
▼ To Install GlassFish ESB Silently Using Custom Settings	12
Installing GlassFish ESB Silently Using Default Settings	13
▼ To Install GlassFish ESB Silently Using Default Settings	13
Starting GlassFish ESB	14

Using the GlassFish ESB Installation CLI

This topic provides instructions to successfully install GlassFish ESB using a command-line interface (CLI). This interface allows you to interact with software or an operating system using a terminal, remote shell, or command prompt.

Prior to attempting an installation, review *Planning for GlassFish ESB Installation*. It provides pertinent information such as supported platforms, operating system limitations, and parameter definitions. If you have any questions or problems, go to the GlassFish ESB web site at <http://www.glassfish-esb.org>.

To access all the GlassFish ESB documentation in HTML format, go to the GlassFish ESB web site at <http://wiki.open-esb.java.net/Wiki.jsp?page=GlassFishESBDocs>.

What You Need to Know

This topic contains conceptual information about the installation.

- “Overview of CLI Installations” on page 6

What You Need to Do

These topics contain the procedures for installing a Java Development Kit (JDK) and GlassFish ESB.

- “Installing the JDK Software and Setting JAVA_HOME” on page 8
- “Generating the State File for Silent Installations” on page 10
- “Installing GlassFish ESB Silently Using Custom Settings” on page 12
- “Installing GlassFish ESB Silently Using Default Settings” on page 13
- “Starting GlassFish ESB” on page 14

Overview of CLI Installations

Before beginning the installation, read [Planning for GlassFish ESB Installation](#), which contains information that is necessary for you to complete a successful install of GlassFish ESB such as supported platforms, operating system limitations, and parameter definitions. You can use a command-line installation script on any of the supported operating systems by first generating the XML state file and then invoking the installation script. The command-line installation performs a complete installation of GlassFish ESB.

The following topics provide information about the installation process:

- “Installation Process” on page 6
- “Installation Command Summary” on page 6
- “Complete Command Line Interface Installation” on page 7
- “Important Installation Notes” on page 7
- “Component Pack Graphical User Interface Installation” on page 7

Installation Process

You can perform a CLI installation in one of three ways. In a default installation, you create a default state file and run the installation all in one step, or you can run the installation without creating a state file. In a custom installation, you create a default state file, customize the state file for your environment, and then run the installation using the updated state file.

- To perform an installation using the default settings *without* creating a state file, follow the instructions under “[Installing GlassFish ESB Silently Using Default Settings](#)” on page 13.
- To perform an installation using the default setting and create a state file for later use, follow the instructions under “[Generating the State File for Silent Installations](#)” on page 10.
- To perform an installation using custom settings, follow these instructions in the order given:
 - “[Generating the State File for Silent Installations](#)” on page 10
 - “[Installing GlassFish ESB Silently Using Custom Settings](#)” on page 12

Installation Command Summary

You can run the installation command using three combinations of options. The options you use depend on whether you want to generate a state file and whether you need to customize the installation. In the following commands, *OS* is the operating system, *ext* is the file extension, and *StateFile* is the path and name of the state file.

- `glassfishesb-v2.1-full-installer-OS.extension --silent`
This installs GlassFish ESB with the default settings, but does not generate a state file.
- `glassfishesb-v2.1-full-installer-OS.extension --silent --record StateFile`

This generates a state file that you can modify for custom installations and also installs GlassFish ESB with the default settings.

- `glassfishesb-v2.1-full-installer-OS.extension --silent --stateStateFile`

This installs GlassFish ESB using the settings defined in the state file you specified in the command.

Complete Command Line Interface Installation

The following software is installed with the CLI installation:

- NetBeans™ IDE 6.5 ML
- GlassFish v2.1
- Open ESB core components
- Java Business Integration (JBI) service engines
- Java Business Integration (JBI) binding components
- Java Business Integration (JBI) component tooling
- Sun Uninstallation software

Note – IDE is an acronym for an integrated development environment. It consists of a number of components, such as a compiler, source code editor, build tools, debugger, browser, object inspector, class hierarchy diagram, and so on. These components can be used when performing object-oriented software development. The integrated tools can also be used to build a graphical user interface (GUI).

Important Installation Notes

- GlassFish ESB does not support spaces in the installation directory path.
- You must have the JDK™ (Java Development Kit) software installed and `JAVA_HOME` set prior to installing GlassFish ESB or the Installer will halt the installation. See [“Installing the JDK Software and Setting JAVA_HOME” on page 8](#) for details.

Component Pack Graphical User Interface Installation

You can purchase additional products on top of the GlassFish ESB core components. These components are bundled into two separate packages, Sun GlassFish ESB Platinum Pack and Sun GlassFish ESB Healthcare Component Pack. Once you install GlassFish ESB, you can install one or both of the component packs using their custom installers.

The Platinum Pack includes the following products:

- BPEL Monitor
- IEP Service Engine
- Worklist Manager (WLM) Service Engine
- COBOL Copybook Encoder
- Event Management Console

For instructions on installing the Platinum Pack, see “[Installing the GlassFish ESB Platinum Pack](#)” in *Using the GlassFish ESB Installation GUI*.

The Healthcare Component Pack includes the following products:

- Sun Master Index
- HL7 Binding Component
- PIX/PDQ Solution

For instructions on installing the Healthcare Component Pack, see [Sun GlassFish ESB Healthcare Pack Installation Guide](#).

Installing the JDK Software and Setting JAVA_HOME

If you do not already have the JDK software installed or if JAVA_HOME is not set, the GlassFish ESB installation will not be successful. The following tasks provide the information you need to install the JDK software and set JAVA_HOME on UNIX or Windows systems. To find out which JDK versions are supported for the operating system you are using, see “[JDK and JAVA_HOME](#)” in *Planning for GlassFish ESB Installation*.



Caution – The GlassFish ESB Installer does not support JDK release 1.6.0_04 in the 64-bit version on the Solaris SPARC or AMD 64-bit environments.

▼ To Install the JDK Software and Set JAVA_HOME on a UNIX System

1 Install the JDK software.

- a. Go to <http://java.sun.com/javase/downloads/index.jsp>.
- b. Select the appropriate JDK version and click Download.

The JDK software is installed on your computer, for example, at `/usr/jdk/jdk1.6.0_02`. You can change this location.

2 Set JAVA_HOME.

- **Korn and bash shells:**

```
export JAVA_HOME=jdk-install-dir
```

```
export PATH=$JAVA_HOME/bin:$PATH
```

- **Bourne shell:**

```
JAVA_HOME=jdk-install-dir
```

```
export JAVA_HOME
```

```
PATH=$JAVA_HOME/bin:$PATH
```

```
export PATH
```

- **C shell:**

```
setenv JAVA_HOME jdk-install-dir
```

```
setenv PATH $JAVA_HOME/bin:$PATH
```

```
export PATH=$JAVA_HOME/bin:$PATH
```

3 Change the permissions to enable you to run the GlassFish ESB Installer.

```
chmod 755 JavaCAPS.bin
```

▼ To Install the JDK Software and Set JAVA_HOME on a Windows System

1 Install the JDK software.

a. Go to <http://java.sun.com/javase/downloads/index.jsp>.

b. Select the appropriate JDK software and click Download.

The JDK software is installed on your computer, for example, at C:\Program Files\Java\jdk1.6.0_02. You can move the JDK software to another location if desired.

2 Set JAVA_HOME:

a. Right click My Computer and select Properties.

b. On the Advanced tab, select Environment Variables, and then edit JAVA_HOME to point to where the JDK software is located, for example, C:\Program Files\Java\jdk1.6.0_02.

Generating the State File for Silent Installations

In order to run a custom silent command line installation, you must first generate a state file that stores all of the user-defined installation configuration parameters. This step also performs a default installation. To perform a default installation without generating a state file, skip to “Installing GlassFish ESB Silently Using Default Settings” on page 13

Note – If you want to skip this step, you can download a sample state file that you can customize and use for a custom installation. Sample files are available for multiple operating systems. You can download the files from http://wiki.open-esb.java.net/Wiki.jsp?page=Inst_cli_statefile_t.txt.

▼ To Generate the State File for Silent Installations

- 1 **Download the installation executable file for your platform** from <https://open-esb.dev.java.net/Downloads.html>.
- 2 **Navigate to the location of the file.**
- 3 **Run the file from the command line with the `--silent` and `--record` options, specifying where you want to save the state file.**

For example:

```
glassfishesb-v2.1-full-installer-solaris-sparc.sh --silent --record  
/home/glassfishesb/state.xml
```

Note – A log file is generated in your home directory under `/.glassfishesb-v2.1-full-installer-hostname_date/log` so you can track the progress of the installation. For Windows, this file is located in `\Documents and Settings\user_name`.

- 4 **When the installer is finished, run the GlassFish ESB uninstaller**
and remove the GUI installation.

Note – For detailed information about running the GlassFish ESB uninstaller, see [Uninstalling GlassFish ESB](#).

- 5 **Using a text editor or XML editor, open the state file and modify the installation properties to correspond to your custom requirements.**

Ensure that items such as user names, passwords, directories, and so on are correct. You can view a sample state file following these instructions.

- 6 Save any changes, and close the state file.
- 7 After creating the state file, note the file location and name, and then continue to [“Installing GlassFish ESB Silently Using Custom Settings” on page 12.](#)

Example 1 Excerpt From the State File Generated by the GlassFish ESB GUI Installer

Note that you can specify the GlassFish admin password, which is **adminadmin** by default; but the master password is not used here. The default master password is **changeit**.

```
<?xml version="1.0" encoding="UTF-8"?>
<state xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:noNamespaceSchemaLocation="state-file.xsd">
  <properties>
    <property name="street.address.windows-x86.en_US"/>
    <property name="country.windows-x86.en_US">United States</property>
    <property name="company.windows-x86.en_US"/>
    <property name="password.windows-x86.en_US"/>
    <property name="email.address.windows-x86.en_US"/>
    <property name="first.name.windows-x86.en_US"/>
    <property name="last.name.windows-x86.en_US"/>
    <property name="register.choice.windows-x86.en_US">skip</property>
    <property name="zip.code.windows-x86.en_US"/>
    <property name="city.windows-x86.en_US"/>
  </properties>
  <components>
    <product platform="windows linux solaris-sparc solaris-x86 macosx-ppc macosx-x86"
      status="to-be-installed" uid="nb-base" version="6.1.0.0.200809090101">
      <properties>
        <property name="start.menu.shortcut.location.windows-x86.en_US">all.users</property>
        <property name="desktop.shortcut.location.windows-x86.en_US">all.users</property>
        <property name="jdk.location.windows-x86.en_US">C:\Program Files\Java\jdk1.6.0_07</property>
        <property name="installation.location">$N{install}/netbeans</property>
        <property name="installation.location.windows">$N{install}/netbeans</property>
        <property name="installation.location.macosx">$N{install}/netbeans.app</property>
        <property name="installation.location.windows-x86.en_US">C:\GlassFishESB\netbeans</property>
      </properties>
    </product>
    <product platform="windows linux solaris-sparc solaris-x86 macosx-ppc macosx-x86"
      status="to-be-installed" uid="nb-soa" version="6.1.0.0.80909">
      <properties>
        <property name="installation.location.windows-x86.en_US">C:\GlassFishESB\netbeans</property>
      </properties>
    </product>
    <product platform="windows" status="to-be-installed" uid="glassfish" version="9.1.0.4.20080411">
      <properties>
        <property name="admin.port.windows-x86.en_US">4848</property>
```

```

    <property name="jdk.location.windows-x86.en_US">C:\Program Files\Java\jdk1.6.0_07</property>
    <property name="http.port.windows-x86.en_US">8080</property>
    <property name="https.port.windows-x86.en_US">8181</property>
    <property name="password.windows-x86.en_US">adminadmin</property>
    <property name="installation.location">${N{install}}/glassfish</property>
    <property name="username.windows-x86.en_US">admin</property>
    <property name="installation.location.windows-x86.en_US">C:\GlassFishESB\glassfish</property>
  </properties>
</product>
<product platform="windows linux solaris-sparc solaris-x86 macosx-ppc macosx-x86"
  status="to-be-installed" uid="openesb" version="2.0.0.80909.0">
  <properties>
    <property name="password.windows-x86.en_US">adminadmin</property>
    <property name="username.windows-x86.en_US">admin</property>
    <property name="installation.location.windows-x86.en_US">
      C:\GlassFishESB\glassfish\addons\jbi-components</property>
  </properties>
</product>
<product platform="windows linux solaris-sparc solaris-x86 macosx-ppc macosx-x86"
  status="to-be-installed" uid="jbicomponents" version="2.0.0.80909.1">
  <properties>
    <property name="password.windows-x86.en_US">adminadmin</property>
    <property name="username.windows-x86.en_US">admin</property>
    <property name="installation.location.windows-x86.en_US">
      C:\GlassFishESB\glassfish\addons\jbi-components</property>
  </properties>
</product>
</components>
</state>

```

Installing GlassFish ESB Silently Using Custom Settings

You can use the GlassFish ESB command-line installation script to perform a complete custom installation silently. A silent installation means that you will not interact with the Installer, nor will you see the process unless you open the directory to which you are installing.

This process uses the state file you generated and customized earlier.

Note – GlassFish ESB does not support spaces in the installation directory path.

▼ To Install GlassFish ESB Silently Using Custom Settings

- Before You Begin**
- Plan your installation by reading [Planning for GlassFish ESB Installation](#), which contains information necessary for you to complete a successful installation of GlassFish ESB such as supported platforms, operating system limitations, and parameter definitions.

- Install the JDK software and set JAVA_HOME. For more information, see [“Installing the JDK Software and Setting JAVA_HOME” on page 8](#)
- Generate and customize the state file. For more information, see [“Generating the State File for Silent Installations” on page 10](#).

- 1 **Navigate to the directory where you downloaded the installation executable file.**
- 2 **Run the installation file from the command line with the `--silent` and `--state` options, specifying where the state file is located.**

For example:

m

```
glassfishesb-v2.1-full-installer-windows.exe --silent --state  
C:\glassfishesb\state.xml
```

GlassFish ESB is installed in the directory you specified.

Note – A log file is generated in your home directory under `/.glassfishesb-v2.1-full-installer-hostname_date/log` so you can track the progress of the installation. For Windows, this file is located in `\Documents and Settings\user_name`.

Installing GlassFish ESB Silently Using Default Settings

You can use the GlassFish ESB command-line installation script to perform a complete default installation silently. A silent installation means that you will not interact with the Installer, nor will you see the process unless you open the directory to which you are installing. When performing a default installation, there is no need to generate the state file first.

Note – If you want to perform a default installation but also generate a state file, perform the steps under [“Generating the State File for Silent Installations” on page 10](#) but do not perform the uninstallation step.

▼ To Install GlassFish ESB Silently Using Default Settings

- Before You Begin**
- Plan your installation by reading [Planning for GlassFish ESB Installation](#), which contains information necessary for you to complete a successful installation of GlassFish ESB such as supported platforms, operating system limitations, and parameter definitions.
 - Install the JDK software and set JAVA_HOME. For more information, see [“Installing the JDK Software and Setting JAVA_HOME” on page 8](#)

- 1 **Navigate to the directory where you downloaded the installation executable file.**

2 Run the installation file with the --silent option.

For example:

```
glassfishesb-v2.1-full-installer-windows.exe --silent
```

GlassFish ESB is installed in the default directory.

Note – A log file is generated in your home directory under `/.glassfishesb-v2.1-full-installer-hostname_date/log` so you can track the progress of the installation. For windows, this file is located in `\Documents and Settings\user_name`.

Starting GlassFish ESB

To start NetBeans and the GlassFish server after the initial installation, navigate to the GlassFish ESB install directory or to the directory where the component is installed that you want to start. Run the appropriate command.

Component	From GlassFish ESB Installation Directory
NetBeans IDE	<p>Windows GUI: Double-click the NetBeans desktop icon, select NetBeans from the Start menu, or run <code>install-directory\start_netbeans.bat</code></p> <p>Mac OSX GUI: Select the NetBeans icon in the Dock or double-click <code>NetBeans.app</code> in the GlassFish ESB home directory</p> <p>UNIX: Run the executable file in <code>install-directory/netbeans/bin</code></p>
GlassFish Server	<p>Windows GUI:<code>install-directory\start_glassfish_domain_name.bat</code></p> <p>Mac OSX GUI:<code>install-directory\start_glassfish_domain_name</code></p> <p>UNIX:Run <code>asadmin start-domain</code> from <code>install-directory/glassfish/bin</code></p> <p>Note – You can also start the GlassFish server from the Services tab on the NetBeans IDE.</p>