



Planning for GlassFish ESB Installation



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

Part No: 821-0918
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

Planning for GlassFish ESB Installation	5
GlassFish ESB Supported Operating Systems and External Systems	6
Supported Design-Time Platforms	6
Supported Runtime Platforms	7
Supported External Systems	8
Before You Install	10
Preparing for Installation	10
JDK and JAVA_HOME	10
UNIX and Linux Patches	11
Checking Patch Levels	11
Certified Sun Solaris 9 and 10 Patches	12
Linux Patches	12

Planning for GlassFish ESB Installation

This topic provides background information you should know before you install GlassFish ESB using a graphical user interface (GUI) or a command line interface (CLI). If you have any questions or problems, go to the GlassFish ESB web site at <http://www.glassfish-esb.org>.

What You Need to Know Before Installing

- “GlassFish ESB Supported Operating Systems and External Systems” on page 6
- “Before You Install” on page 10
- “Preparing for Installation” on page 10
- “UNIX and Linux Patches” on page 11

For GlassFish ESB, GUI and command-line interface (CLI) installations are available for all supported operating systems. The CLI installation lets you specify installation parameters in a state file that is invoked using command line options. It has the option of a silent installation, which is run completely in the background. The GUI installer's wizard takes you through an interactive installation, prompting you along the way with installation questions.

A complete installation includes the following components:

- NetBeans™ IDE 6.7.1
- GlassFish v2.1.1
- 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 [“JDK and JAVA_HOME” on page 10](#) for more information.

GlassFish ESB Supported Operating Systems and External Systems

The following topics list the supported operating systems for both the design-time (NetBeans) and runtime (GlassFish) components of GlassFish ESB, and also list the supported external systems for the components of GlassFish ESB.

- [“Supported Design-Time Platforms” on page 6](#)
- [“Supported Runtime Platforms” on page 7](#)
- [“Supported External Systems” on page 8](#)

For a list of supported standards, expand the link under *How is OpenESB different?* in [About Open ESB \(https://open-esb.dev.java.net/AboutOpenEsb.html\)](#).

Supported Design-Time Platforms

The operating systems that are compatible with GlassFish ESB design-time components are the same as those that are compatible with NetBeans 6.7.1:

- Sun Solaris 10 SPARC® (64 bit)
- Sun Solaris 10 x86 (32 bit and 64 bit)
- Sun Solaris 9 SPARC (64 bit)
- OpenSolaris 2008.05 (evaluation support only)
- OpenSolaris 2008.11 (evaluation support only)
- Microsoft Windows XP SP3 (32 bit)
- Microsoft Windows 2000 SP4 (32 bit)

- Microsoft Windows Server 2003 R2 SP2 (32 bit)
- Microsoft Windows Server 2003 SP2 (32 bit)
- Microsoft Windows Vista Business SP1 (32 bit)
- Microsoft Windows Server 2008 (32 bit)
- Red Hat Enterprise Linux AS 4 (32 bit and 64 bit)
- Red Hat Enterprise Linux AS 5 (32 bit and 64 bit)
- Red Hat Enterprise Linux Server 5.3 – basic Server and Advanced Platform (32 and 64 bit)
- Macintosh OS X 10.5 x86 (32 bit)
- Macintosh OS X 10.5 PPC (32 bit)

Supported Runtime Platforms

The operating systems that are compatible with GlassFish ESB runtime components are the same as those that are compatible with GlassFish v2.1.1:

- Sun Solaris 10 SPARC (JVM: 32 and 64 bit)
- Sun Solaris 9 SPARC (JVM: 32 bit)
- Sun Solaris 10 x86 (OS: 32 and 64 bit; JVM: 32 bit)
- OpenSolaris 2008.05 x86 (OS: 64 bit; JVM: 32 bit) (evaluation support only)
- OpenSolaris 2008.11 (OS: 32 bit; JVM: 32 bit) (evaluation support only)
- Microsoft Windows XP SP3 (OS: 32 bit; JVM: 32 bit)
- Microsoft Windows 2000 SP4 (OS: 32 bit; JVM: 32 bit)
- Microsoft Windows Server 2003 SP2 (OS: 32 bit; JVM: 32 bit)
- Microsoft Windows Server 2003 R2 SP2 (OS: 32 bit; JVM: 32 bit)
- Microsoft Windows Vista Business SP1 (OS: 32 bit; JVM: 32 bit)
- Microsoft Windows Server 2008 (OS: 32 bit; JVM: 32 bit)
- Red Hat Enterprise Linux AS 4 (OS: 32 bit and 64 bit; JVM: 32 bit)
- Red Hat Enterprise Linux AS 5 (OS: 32 bit and 64 bit; JVM: 32 bit)
- Red Hat Enterprise Linux Server 5.3 – basic Server and Advanced Platform (OS: 32 bit and 64 bit; JVM: 32 bit)
- Macintosh OS X 10.5 x86 (OS: 32 bit; JVM: 32 bit)
- Macintosh OS X 10.5 PPC (OS: 32 bit; JVM: 64 bit)
- IBM AIX 5L Version 5.3 TL9 (OS: 64 bit; JVM: 32 bit)
- IBM AIX 5L Version 6.1 (OS: 64 bit; JVM: 32 bit)

Note – Macintosh OS X is supported for development purposes only, and is not supported for production deployments.

Supported External Systems

This topic lists the external systems that are supported for each GlassFish ESB component.

BPEL Service Engine

- Oracle 11g
- Oracle 10g
- Oracle 9i
- MySQL CS 5.1
- MySQL ES 5.1.32
- SQL Server 2005
- JavaDB (Derby)

The BPEL Service Engine supports BPEL 2.0.

IEP Service Engine

- Oracle 11g
- Oracle 10g
- Oracle 9i
- MySQL ES 5.1.32
- JavaDB (Derby)

WLM Service Engine

- Oracle 11g
- Oracle 10g
- MySQL ES 5.1.32
- JavaDB (Derby)

WLM Service Engine also supports these LDAP directory platforms:

- Windows Server 2003 R2 Active Directory
- Sun Java System Directory Server v6.3.1
- OpenDS 2.0.0

Sun Master Index

- Oracle 11g
- Oracle 10g
- MySQL ES 5.1.32
- Microsoft SQL Server 2005

- Microsoft SQL Server 2008

Data Mashup Service Engine

- Oracle 11g
- Oracle 10g
- Oracle 9i
- MySQL ES 5.1.32
- DB2 9.1
- Microsoft SQL Server 2005 with SP2
- Sybase 15
- Java DB (Derby)

HL7 Binding Component

- HL7 Standard versions 2.1, 2.2, 2.3, 2.3.1, 2.4, 2.5, 2.5.1, and 2.6

HTTP Binding Component

- OpenSSO Enterprise 8
- Access Manager 7.1

HTTP Binding Component

- OpenSSO Enterprise 8
- Access Manager 7.1

JMS Binding Component

- JMQ 4.3
- WebLogic 9.2
- WebLogic 10
- WebSphere 6.1
- JBOSS 4.2

LDAP Binding Component

- Sun Java System Directory Server Enterprise Edition 6.3.1
- Windows Server 2003 Active Directory
- OpenLDAP 2.4.11
- OpenDS 1.2.0

The following items explain issues to consider before you begin your GlassFish ESB installation.

Mozilla Firefox Version

GlassFish ESB supports Mozilla Firefox v. 2.0 or later for accessing all GlassFish ESB browser components.

Internet Explorer Version

Safari Version

GlassFish ESB supports Safari 3.2 for accessing all GlassFish ESB browser components.

GlassFish ESB Installation Requirements

To install GlassFish ESB, you need **711 MB** of free storage space.

Windows Pre-Installation

Exit from all Windows programs prior to running the setup.

Default User Names and Passwords

The GlassFish default administrator user name is *admin* and the password is *adminadmin*. You use them when you start GlassFish.

Preparing for Installation

- Determine the systems that will host NetBeans.
- Ensure that each system that you select meets the system requirements for GlassFish ESB. For more information on resource requirements, see [“Before You Install” on page 10](#).

JDK and JAVA HOME

The Java Development Kit (JDK) must be installed, and the JAVA_HOME environment variable must be set, on the computer on which you install GlassFish ESB prior to beginning the installation. Different operating systems require different JDK.

The following list provides the GlassFish ESB JDK requirements by platform.

Solaris JDK5: At least release 1.5.0_14

JDK6: At least release 1.6.0_03

Linux (Red Hat and SUSE)	JDK5: At least release 1.5.0_14
	JDK6: At least release 1.6.0_03
IBM AIX 5.3	JDK5: At least release 1.5.0_14
IBM AIX 6.1	JDK6: IBM-supplied JDK 1.6 SR7
Macintosh	JDK5: The latest 1.5 release supported by Apple
Microsoft Windows	JDK5: At least release 1.5.0_14
	JDK6: At least release 1.6.0_03



Caution – It is not recommended to use JDK 1.6.0_13 or 1.6.0_14 with GlassFish ESB v2.1 due to issues with several of the wizards used to develop applications. In addition, the GlassFish ESB Installer fails to install on Windows when using JDK 1.6.0_13 or 1.6.0_14. 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. The installer also does not support JDK release 1.6.0 or later on AIX 5.3.

UNIX and Linux Patches

There are required and certified UNIX and Linux patches for GlassFish ESB. The following topics provide information about patches:

- [“Checking Patch Levels” on page 11](#)
- [“Certified Sun Solaris 9 and 10 Patches” on page 12](#)
- [“Linux Patches” on page 12](#)

Checking Patch Levels

Use these commands to check which patch levels are currently installed on your operating system:

- Sun Solaris patches


```
pkginfo
cat /etc/release
```
- Linux patches


```
uname -a
```

Certified Sun Solaris 9 and 10 Patches

Daylight Savings Time Patches

If you want your logger and scheduling to be correct, you need to install the appropriate patches:

- **SPARC Platform**
 - Solaris 10 with timezone patch 122032-04 or later and libc patch 119689-07 or later
- **AMD Opteron Platform**
 - Solaris 10 with timezone patch 122033-03 or later and libc patch 121208-02 or later

Linux Patches

The following patches are certified patches for Red Hat Linux and SUSE Linux:

Certified SUSE Linux Enterprise Server 10 Daylight Savings Time Patch

If you want your logger and scheduling to be correct on your Linux systems, you need to install this Daylight Savings Time patch:

`tzdata-2007c-1.el2_1`