

# **Installing Sun Java Enterprise System 6**

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This document is maintained by the Java ES team.

This document provides information about installing the products in Sun Java™ Enterprise System (Java ES) 6 Base, the core offering of Java ES. For information about the other offerings in Java ES 6, including the various Java ES suites, see [sun.com/software/javaenterprisesystem](http://sun.com/software/javaenterprisesystem).

This document is updated as needed. See “Revision History” on page 8 to learn about these updates. The most recent version of this document can be found in the Java ES 6 documentation collection at [docs.sun.com/coll/1286.4](http://docs.sun.com/coll/1286.4).

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## Getting the Java ES 6 Software

The Java ES 6 software is available as a free download at [sun.com/software/javaenterprisesystem/getit.jsp](http://sun.com/software/javaenterprisesystem/getit.jsp), and as an orderable CD/DVD media kit.

You are welcome to use the Java ES 6 software for free without support or indemnification. Purchase a Java ES subscription to get the Sun support and indemnification you'll want when running in a production environment. For information about the available support and service plans offered with a Java ES subscription, see [sun.com/software/javaenterprisesystem/support.jsp](http://sun.com/software/javaenterprisesystem/support.jsp)

## Suggested Sequence for Installing Java ES 6

Sun recommends that you install the products in Java ES 6 Base in the following sequence, whether you are installing on a single system or deploying an architecture that spans several systems. This sequence has been developed based on the required and optional dependencies among the products in Java ES Base, as described in Interoperability of the Products in Sun Java Enterprise System 6.

### 1. Solaris Cluster software

If any products run in a Solaris Cluster environment, Solaris Cluster software should be installed before the products that use Solaris Cluster services. Solaris Cluster agents should be installed as part of the Solaris Cluster installation.

### 2. Solaris Cluster Geographic Edition software

Solaris Cluster Geographic Edition should be installed after Solaris Cluster software, upon which it depends. It should be installed before any products that use Solaris Cluster services.

### 3. Directory Server Enterprise Edition

Several products store user data or configuration data in Directory Server, and might access Directory Server through Directory Proxy Server. Therefore, Directory Server Enterprise Edition should generally be installed before installing products that have dependencies on Directory Server and Directory Proxy Server.

#### 4. **Web Server**

A number of Java ES products require the support of a web container, which should be installed before the products requiring web container services. Normally web container services are provided by Web Server or GlassFish Enterprise Server, but if your architecture contains both, install Web Server first, before installing GlassFish Enterprise Server.

#### 5. **Message Queue**

If multiple products in your Java ES deployment rely on Message Queue, you should install it separately before the products that rely on it. If only GlassFish Enterprise Server relies on Message Queue, you can instead install Message Queue as part of the GlassFish Enterprise Server installation because GlassFish Enterprise Server 2.1 includes Message Queue.

#### 6. **GlassFish Enterprise Server**

GlassFish Enterprise Server should be installed after Web Server if Web Server is to be used to provide load balancing services between GlassFish Enterprise Server instances. Also, GlassFish Enterprise Server should be installed after Message Queue if a system-wide deployment of Message Queue is to be used to provide asynchronous messaging services instead of the Message Queue installation bundled with GlassFish Enterprise Server.

#### 7. **Web Proxy Server**

Web Proxy Server can be installed anytime, though generally it should be installed after the Web Server or GlassFish Enterprise Server installation for which it provides a proxy service.

#### 8. **OpenSSO Enterprise**

OpenSSO Enterprise must be installed after the web container into which it is to be deployed, and it should be installed before the products that depend on it for authentication and authorization services.

#### 9. **GlassFish Web Space Server**

GlassFish Web Space Server should be installed last because it has required or optional dependencies on several other Java ES products.

## **Installing Solaris Cluster Software**

In Java ES 6, Solaris Cluster 3.2 1/09 software is provided in a package-based format for the following platforms:

- Solaris 10 on SPARC™ and x86 platforms (minimum version: Solaris 10 5/08)
- Solaris 9 on SPARC platform (minimum version: Solaris 9 9/05)

Because Solaris Cluster is an integrated hardware and software solution, careful planning of your Solaris Cluster deployment is required before installing the software itself. For information about deployment planning, see these Solaris Cluster manuals:

- [Sun Cluster Overview for Solaris OS](#)
- [Sun Cluster Concepts Guide for Solaris OS](#)
- [Sun Cluster 3.1 - 3.2 Hardware Administration Manual for Solaris OS](#)
- [Sun Cluster Software Installation Guide for Solaris OS](#)
- [Sun Cluster Data Services Planning and Administration Guide for Solaris OS](#)

For information about installing the Solaris Cluster software, see [Sun Cluster Software Installation Guide for Solaris OS](#).

For an example that shows installation and configuration of a specific Solaris Cluster configuration, see [Sun Cluster Quick Start Guide for Solaris OS](#).

# Installing Solaris Cluster Geographic Edition Software

In Java ES 6, Solaris Cluster Geographic Edition 3.2 1/09 software is provided in a package-based format for the following platforms:

- Solaris 10 on SPARC and x86 platforms (minimum version: Solaris 10 5/08)
- Solaris 9 on SPARC platform (minimum version: Solaris 9 9/05)

For information about installing the Solaris Cluster Geographic Edition software, see [Sun Cluster Geographic Edition Installation Guide](#).

To learn more about Solaris Cluster Geographic Edition, see [Sun Cluster Geographic Edition Overview](#).

# Installing Directory Server Enterprise Edition

In Java ES 6, Directory Server Enterprise Edition (DSEE) 6.3.1 is provided in a file-based format, packaged in a ZIP distribution, for the following platforms:

- Solaris 10 for SPARC, 32-bit x86, Intel x64, and AMD x64 platforms
- Solaris 9 for SPARC and x86 platforms
- Red Hat Enterprise Linux AS and ES 3.0 Update 4 for x86 and AMD x64 platforms
- Red Hat Enterprise Linux AS and ES 4.0 Update 2 for x86 and AMD x64 platforms
- SuSE Linux Enterprise Server 10 for x86 and AMD x64 platforms
- SuSE Linux Enterprise Server 9 for x86 and AMD x64 platforms
- Microsoft Windows 2000 Server SP4 and Advanced Server SP4
- Microsoft Windows 2003 Server Standard Edition SP2 and Enterprise Edition SP2

Installing DSEE 6.3.1 is actually a multistep process because version 6.3.1 is a maintenance release that corrects issues known in versions 6.0 through 6.3. The steps to install DSEE 6.3.1 are:

1. Install DSEE 6.3, as described in “To Install Directory Server Enterprise Edition 6.3 From Zip Distribution” in [Sun Java System Directory Server Enterprise Edition 6.3 Installation Guide](#).
2. Upgrade the installation to version 6.3.1, as described in “Upgrading Directory Server Enterprise Edition to 6.3.1 Using ZIP distribution” in [Sun Java System Directory Server Enterprise Edition 6.3.1 Release Notes](#).
3. Install the Directory Service Control Center, as described in “Installing Directory Service Control Center From Zip Distribution” in [Sun Java System Directory Server Enterprise Edition 6.3 Installation Guide](#)

To learn about DSEE, see [Sun Java System Directory Server Enterprise Edition 6.3 Evaluation Guide](#). To learn about deployment architectures for DSEE, see [Sun Java System Directory Server Enterprise Edition 6.3 Deployment Planning Guide](#).

# Installing Web Server

In Java ES 6, Web Server 7.0 Update 4 is provided in a file-based format, packaged in a ZIP distribution, for the following platforms:

- Solaris 10 for SPARC, x86, and AMD x64 platforms
- Solaris 9 for SPARC and x86 platforms
- OpenSolaris 2008.11 for x86 and AMD x64 platforms
- Red Hat Enterprise Linux 3.0 for x86 (minimum version: 3.0 Update 4)
- Red Hat Enterprise Linux 4.0 and 5.0 for x86 and AMD x64 platforms
- SuSE Linux Enterprise Server 10 for AMD x64 platform (minimum version: 10 SP2)
- SuSE Linux Enterprise Server 9 for x86 and AMD x64 platforms
- HP-UX 11i v1 (B.11.11)
- AIX 5.3 and 6.1

- Microsoft Windows 2000 Advanced Server SP4 for x86 and AMD x64 platforms
- Microsoft Windows 2003 Enterprise Server for x86 and AMD x64 platforms
- Microsoft Windows XP Professional Edition for x86 and AMD x64 platforms (minimum version: SP2)

For information about installing Web Server, see [Sun Java System Web Server 7.0 Update 4 Installation and Migration Guide](#).

## Installing Message Queue

In Java ES 6, Message Queue 4.3 is provided in different formats on different platforms:

- Package-based format on these platforms:
  - Solaris 10 for SPARC, x86, and x64 platforms
  - Solaris 9 for SPARC and x86 platforms
  - Red Hat Enterprise Linux AS and ES 3.0, 4.0, and 5.0 for x86 and x64 platforms
- File-based format on these platforms:
  - AIX 6.1
  - Microsoft Windows 2000 Advanced Server SP4 for x86 platform
  - Microsoft Windows 2003 Server Standard Edition SP2 and Enterprise Edition SP2 for x86 and x64 platforms
  - Microsoft Windows 2008 Server Standard Edition SP2 and Enterprise Edition SP2 for x86 and x64 platforms
  - Microsoft Windows XP Professional Edition SP2 for x86 platform
  - Microsoft Windows Vista

For information about installing Message Queue, see [Sun Java System Message Queue 4.3 Installation Guide](#).

To learn about Message Queue and about deployment architectures for Message Queue, see [Sun Java System Message Queue 4.3 Technical Overview](#).

## Installing GlassFish Enterprise Server

In Java ES 6, GlassFish Enterprise Server 2.1 is provided in a file-based format, packaged in a ZIP distribution, for the following platforms:

- Solaris 10 for SPARC, x86, and x64 platforms
- Solaris 9 for SPARC and x86 platforms
- Red Hat Enterprise Linux 5 for x86 and x64 platforms
- Red Hat Enterprise Linux 3.0 Update 1 and 4.0 for x86 platform
- SuSE Linux Enterprise Server 10 SP1 for x86 and x64 platforms
- AIX 5.2 and 5.3
- Microsoft Windows 2000 SP4, 2000 Advanced Server SP4, Server 2003, Server 2008, XP Professional Edition SP1, Vista, and 2008

For information about installing GlassFish Enterprise Server, see [Sun GlassFish Enterprise Server 2.1 Installation Guide](#).

To learn about deployment architectures for GlassFish Enterprise Server, see [Sun GlassFish Enterprise Server 2.1 Deployment Planning Guide](#).

## Installing Web Proxy Server

In Java ES 6, Web Proxy Server 4.0.8 is provided in a file-based format, packaged in a ZIP distribution, for the following platforms:

- Solaris 10 for SPARC, x86, and AMD x64 platforms
- Solaris 9 for SPARC and x86 platforms
- Solaris 8 for SPARC platform
- Red Hat Enterprise Linux AS 3.0 for x86 platform (minimum version: 3.0 Update 4)
- Red Hat Enterprise Linux AS 4.0 for x86 (minimum version: 4.0 Update 2)
- HP-UX 11i (11.11)
- Microsoft Windows 2000 Server SP4 and Advanced Server
- Microsoft Windows 2003 Enterprise Edition

For information about installing Web Proxy Server, see [Sun Java System Web Proxy Server 4.0.8 Installation and Migration Guide](#).

## Installing OpenSSO Enterprise

In Java ES 6, OpenSSO Enterprise 8.0 is provided in a file-based format, packaged in a ZIP distribution, for the following platforms:

- Solaris 10 for SPARC, x86, and x64 platforms
- Solaris 9 for SPARC, x86, and x64 platforms
- OpenSolaris
- Red Hat Enterprise Linux 5 for x86 and AMD x64 platforms
- Red Hat Enterprise Linux 4 for x86 and AMD x64 platforms
- Ubuntu Linux 8.0.4
- AIX 5.3
- Microsoft Windows Server 2003 Standard, Enterprise, and Datacenter Editions
- Microsoft Windows Server 2003 R2 for x64 platform
- Microsoft Windows XP
- Microsoft Windows Vista
- Microsoft Windows 2008 Server

For information about installing OpenSSO Enterprise, see [Sun OpenSSO Enterprise 8.0 Installation and Configuration Guide](#).

To learn about OpenSSO Enterprise, see [Sun OpenSSO Enterprise 8.0 Technical Overview](#). To learn about deployment architectures for OpenSSO Enterprise, see [Sun OpenSSO Enterprise 8.0 Deployment Planning Guide](#).

## Installing GlassFish Web Space Server

In Java ES 6, GlassFish Web Space Server 10.0 is provided in a file-based format, packaged in a ZIP distribution, for the following platforms:

- Solaris 10 for SPARC and x86 platforms
- OpenSolaris for x86 and x64 platforms (minimum version: 2008.05)
- Red Hat Enterprise Linux 5
- SuSE Linux Enterprise Server 10
- OpenSuSE Linux 11
- Ubuntu Linux 8

- Microsoft Windows Server 2003 Server, XP Professional, and Vista for x86 platform
- Mac OS X (minimum version: 10.4)

For information about installing GlassFish Web Space Server, see [Sun GlassFish Web Space Server 10.0 Getting Started Guide](#).

## Documentation for Java ES 6

Documentation for Java ES 6 and the products in Java ES 6 is available on docs.sun.com:

- Release notes: [docs.sun.com/coll/1315.4](http://docs.sun.com/coll/1315.4)
- System-level installation, upgrade, and interoperability documentation: [docs.sun.com/coll/1286.4](http://docs.sun.com/coll/1286.4)
- Collections of manuals for each product: [docs.sun.com/prod/entsys.6](http://docs.sun.com/prod/entsys.6)

Additionally, you can find other kinds of documentation at:

- The Java ES information hub on BigAdmin: [sun.com/bigadmin/hubs/javaes](http://sun.com/bigadmin/hubs/javaes)
- The Java ES Interoperability space: [wikis.sun.com/display/Interoperability](http://wikis.sun.com/display/Interoperability)
- The Java ES forum: [forums.sun.com/forum.jspa?forumID=872](http://forums.sun.com/forum.jspa?forumID=872)

## 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/>)

## Searching Sun Product Documentation

Besides searching Sun product documentation from the docs.sun.com<sup>SM</sup> web site, you can use a search engine by typing the following syntax in the search field:

```
search-term site:docs.sun.com
```

For example, to search for “broker,” type the following:

```
broker site:docs.sun.com
```

To include other Sun web sites in your search (for example, [java.sun.com](http://java.sun.com), [www.sun.com](http://www.sun.com), and [developers.sun.com](http://developers.sun.com)), use sun.com in place of docs.sun.com in the search field.

## Third-Party Web Site References

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

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# Sun Welcomes Your Comments

Sun is interested in improving its documentation and welcomes your comments and suggestions. To share your comments, go to <http://docs.sun.com> and click Feedback.

## Revision History

Version	Date	Description of Changes
10	April 2009	Final release version.



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