



Sun Java System Web Server 6.1 SP7 Release Notes



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Part No: 820-0263-10
February 2007

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Sun Java System Web Server Release Notes

Sun Java™ System Web Server 6.1 SP7 (hereafter referred to as Sun Java System Web Server 6.1) contains important security vulnerability fixes. All users of Sun Java System Web Server, especially those with sites that use Secure Sockets Layer (SSL) or Transport Layer Security (TLS), are strongly encouraged to install this service pack. This release also provides support for the HP-UX and AIX platforms.

These release notes contain important information available at the time of release of Sun Java System Web Server 6.1 SP7. It includes information about features and enhancements, known problems, technical notes, and pointers to additional resources. Review the release notes prior to installing and configuring your server, and then periodically thereafter for the most up-to-date information.

The complete Sun Java System Web Server 6.1 documentation is available at <http://docs.sun.com/coll/1308.4>.

These release notes contain the following sections:

- [Features and Enhancements](#)
- [Supported Platforms](#)
- [Required Patches](#)
- [Supported Browsers](#)
- [Impact of US DST Changes 2007](#)
- [Deprecated or Modified Public Interfaces in Sun Java System Web Server 6.1](#)
- [Installation, Upgrade, and Migration Notes](#)
- [Product Documentation](#)
- [Resolved Issues](#)
- [Known Issues](#)
- [How to Report Problems and Provide Feedback](#)
- [Additional Sun Resources](#)

Features and Enhancements

Sun Java System Web Server 6.1 provides the following features and enhancements:

- [Java Servlet 2.3 and JavaServer Pages \(JSP\) 1.2 Support](#)
- [J2SE Platform 1.4 JDK/JRE Support](#)
- [J2SE Platform 1.5 JDK/JRE Support](#)
- [WebDAV Support](#)
- [NSAPI Filters Support](#)
- [HTTP Compression Support](#)
- [Search Engine Support](#)
- [Enhanced Security](#)
- [JNDI Support](#)
- [JDBC Support](#)
- [Sun Java Studio Enterprise Support](#)
- [Active Server Pages Support](#)
- [PHP Compatibility](#)
- [NSS and NSPR Support](#)
- [Enhanced Hardware Accelerator Encryption Support](#)
- [64-bit Support](#)
- [Solaris PKCS #11 Support](#)
- [Localized Version Support](#)

Java Servlet 2.3 and JavaServer Pages (JSP) 1.2 Support

Sun Java System Web Server 6.1 includes a Java 2 Platform, Enterprise Edition (J2EE™) compliant implementation of the Java Servlet 2.3 and JavaServer Pages™ (JSP™) 1.2 technology specifications. A J2EE compliant web container provides the flexibility and reliability needed to design and deploy web applications that comply with Java technology standards. Web applications can be deployed on a per virtual server basis.

For information about these technologies, see the following resources:

- [Java Servlets at <http://java.sun.com/products/servlet/index.html>](http://java.sun.com/products/servlet/index.html)
- [JavaServer Pages at <http://java.sun.com/products/jsp/index.html>](http://java.sun.com/products/jsp/index.html)

For information about developing Servlets and JavaServer Pages, see *Sun Java System Web Server 6.1 SP7 Programmer's Guide to Web Applications*.

J2SE Platform 1.4 JDK Support

Sun Java System Web Server 6.1 supports Java 2 Platform, Standard Edition (J2SE™) 1.4. The J2SE software is packaged with the Web Server and installed during installation for the Solaris, Linux, and Windows platforms. For the HP-UX and AIX platforms, download the Java Development Kit (JDK™) from the respective platform vendors' web sites before installing the web server.

The 64-bit Solaris SPARC release of Sun Java System Web Server requires a 64-bit JDK. On all other platforms, a 32-bit JDK is required.

J2SE Platform 1.5 JDK Support

Sun Java System Web Server 6.1 supports Java 2 Platform, Standard Edition (J2SE) 1.5 and has been certified with the following JDK versions:

- Solaris (SPARC, x86, and AMD64): 1.5.0_09
- Linux: 1.5.0_09
- Windows: 1.5.0_09
- HP-UX: 1.5.0.05
- AIX: 1.5.0 20061002a (SR3)

WebDAV Support

Sun Java System Web Server 6.1 supports the Web-based Distributed Authoring and Versioning (WebDAV) protocol. WebDAV enables collaborative web publishing and has the following features:

- Compliance with RFC 2518 and interoperability with RFC 2518 clients
- Security and access control for web publishing
- Basic publishing operations on file-system-based WebDAV collections and resources

WebDAV provides integrated support for content metadata, namespace management, and overwrite protection. These technologies combined with the many authoring tools that support WebDAV provide an ideal development platform for collaborative environments.

NSAPI Filters Support

Sun Java System Web Server 6.1 extends the Netscape™ Server Application Programmer's Interface (NSAPI) to support NSAPI filters.

NSAPI filters enable the custom processing of HTTP request and response streams. This processing enabled a function to intercept and potentially modify the content presented to or generated by another function. For example, a plug-in could install a NSAPI filter to intercept a

XML page generated by another plug-in's Server Application Function (SAF) and then transform that XML page into a HTML, XHTML, or WAP page appropriate for the client. Alternatively, a NSAPI filter could decompress data received from a client before presenting it to another plug-in.

For more information about NSAPI filters, see *Sun Java System Web Server 6.1 SP7 NSAPI Programmer's Guide*.

HTTP Compression Support

Sun Java System Web Server 6.1 supports content compression. This compression enables you to increase the delivery speed to clients and serve higher content volumes without incurring a corresponding increase in hardware expenses. Content compression reduces content download time, a benefit most apparent to users of dial-up and high-traffic connections.

For more information, see *Sun Java System Web Server 6.1 SP7 Administrator's Guide*.

Search Engine Support

Sun Java System Web Server 6.1 supports a Java search engine that provides full-text search indexing and retrieval. The search feature enables you to search documents on the server and display results on a web page. Server administrators can create the indexes of documents and customize the search interface to meet user specific needs.

The default URL to access the search functionality is `http://server-instance:port number/search`

For example:

`http://plaza:8080/search`

When the user goes to this URL, the Search page, a Java web application, is launched.

For detailed information about basic and advanced search feature, see the Online Help provided with the search engine. To access Online Help, click the Help link on the Search page. For more information, see *Sun Java System Web Server 6.1 SP7 Administrator's Guide*.

Enhanced Security

Sun Java System Web Server 6.1 enables you to restrict access using flat file authentication through the Java Security Manager. Enabling the Security Manager feature can improve security by restricting the rights granted to your J2EE web applications. By default, the Security Manager feature is disabled when you install the product. To enable Security Manager, *uncomment* the following entries in the `server.xml` file:

```
<JVMOPTIONS>-Djava.security.manager</JVMOPTIONS>
```

```
<JVMOPTIONS>-Djava.security.policy=instance-dir/config/server.policy</JVMOPTIONS>
```

where *instance-dir* is the path to the installation directory of this server instance.

For more information about `server.xml`, see *Sun Java System Web Server 6.1 SP7 Administrator's Configuration File Reference*.

JNDI Support

Sun Java System Web Server 6.1 supports the Java Naming and Directory Interface™ (JNDI) API. JNDI provides seamless connectivity to heterogeneous enterprise naming and directory services.

JDBC Support

Sun Java System Web Server 6.1 includes the Java DataBase Connectivity (JDBC™) software, and supports a wide range of industry-standard and customized JDBC drivers.

Sun Java Studio Enterprise Support

Sun Java System Web Server 6.1 supports Sun Java Studio Enterprise 8. Sun Java Studio technology is Sun's powerful and extensible integrated development environment (IDE) for Java technology developers. Sun Java Studio is based on the NetBeans™ software and is integrated with the Sun Java platform.

Sun Java Studio support is available on all platforms supported by Sun Java System Web Server 6.1. The plug-in for the Web Server can be obtained in the following ways:

- From the companion CD in the Sun Java System Web Server Media Kit
- By using the companion AutoUpdate feature of Sun Java Studio
- From the download center for Sun Java System Web Server

Note – Sun Java Studio 8 plug-in for Sun Java System Web Server 6.1 SP7 works only with a local web server, that is, the IDE and the web server must be installed on the same machine.

For information about using the web application features in Sun Java Studio 8, see <http://developers.sun.com/prodtech/javatools/jsenterprise/learning/tutorials/index.html>. Set the Sun Java System Web Server 6.1 SP7 instance as default, and follow the steps described in the tutorial.

Also, see the NetBeans tutorial at <http://www.netbeans.org/kb/41/j2ee-tut/>.

For more information about Sun Java Studio 8, see <http://www.sun.com/software/sundev/jde/>.

For additional developer resources, see “[Additional Sun Resources](#)” on page 63.

To Use Sun Java Studio Enterprise 8 for Debugging

Sun Java Studio Enterprise 8 can be used for remote debugging if you want to manually attach the IDE to a remote web server started in debug mode.

1. Restart the server instance in the debug mode by using the Sun Java System Web Server Administration interface (Server Manager->JVM General->Debug Enabled).
2. Note the JPDA port number.
3. Start the IDE.
4. Choose Debug->Start.
5. Select the `dt_socket` method.
6. Type the remote machine name and JPDA port number.

Any breakpoint created in the IDE on Servlet source code of a deployed application becomes active.

Active Server Pages Support

Sun Java System Web Server 6.1 supports the Active Server Pages (ASP) specification through Sun Java System Active Server Pages version 4.0.1 (formerly Sun ChiliSoft ASP) and version 4.0.2. Active Server Pages software adds a secure and enterprise-grade ASP engine to the Sun Java System Web Server. Sun Java System Web Server 6.1 supports Sun Java System Active Server Pages 4.0.1 and 4.0.2 on the following platforms:

- Solaris™ (SPARC®) versions 8 and 9
- Windows 2000 and Windows XP
- Red Hat Advanced Server 2.1

A license is not required for Sun Java System Active Server Pages if you are installing it to the Sun Java System Web Server. The Sun Java System Active Server Pages installer is available on the companion CD if you purchase the Sun Java System Web Server Media Kit, or you can download it from <http://www.sun.com/software/chilisoft/index.html>.

Note the following:

- The Sun Java System Active Server Pages plug-in requires an additional 50 Mbytes (approximately) of disk space after Sun Java System Web Server 6.1 is installed.
- Before you begin installation, make sure you are logged in as root.

PHP Compatibility

PHP: Hypertext Preprocessor (PHP) can be used with the Sun Java System Web Server using one of the three supported APIs; CGI, NSAPI, and FastCGI. PHP is a page scripting language available from the PHP group. The PHP group provides instructions on its Web site (<http://www.php.net>) for configuring the PHP software to use any of these APIs:

- CGI API is the most stable interface that can be used but will suffer from performance limitations inherent in CGI.
- NSAPI uses the Sun Java System Web Server's native API to run the PHP software within the web server's memory. This configuration will provide the best performance, but risks crashing the server if **non thread safe** PHP modules are used.
- FastCGI interface provides a compromise between performance and stability. FastCGI enables the PHP software to remain running after serving requests while continuing to run outside of the web server's memory. If an unstable PHP module is used, it will not crash the web server. For this reason use the FastCGI interface with the PHP software.

The FastCGI interface is supported with Web Server through the installation of the FastCGI add-on available at <http://www.sun.com/download/products.xml?id=42d693c3>.

When run as a FastCGI process, the PHP software uses the following environment variables to control the life cycle of PHP processes:

- `PHP_FCGI_CHILDREN` determines the number of PHP processes that will be created to respond to requests.
- `PHP_FCGI_MAX_REQUESTS` determines the number of requests a PHP process can respond to before terminating itself and being replaced with a new PHP process.

Note – Instead of using `PHP_FCGI_CHILDREN`, use the FastCGI add-on configuration parameter `min-procs` to control the minimum number of PHP processes.

NSS and NSPR Support

Sun Java System Web Server 6.1 supports NSS. The version of NSS included in this version of Web Server is 3.11.4 (for both 32-bit and 64-bit). NSS is a set of libraries that support cross-platform development of security-enabled server applications. Sun Java System Web Server 6.1 SP7 also includes NSPR 4.6.4.

If you are upgrading from a previous version of Java Enterprise System (Java ES) to Sun Java System Web Server 6.1 SP7, install the following NSS patches:

- Solaris 8 SPARC: 119209-07
- Solaris 9 SPARC: 119211-07
- Solaris 9 x86: 119212-07
- Solaris 10 SPARC: 119213-07

- Solaris 10 x86: 119214-07
- Linux: 121656-07

Enhanced Hardware Accelerator Encryption Support

Sun Java System Web Server 6.1 provides hardware accelerator support for Sun™ Crypto Accelerator 500, 1000, and 4000 boards, which enhance the performance of SSL on web server.

64-bit Support

To complement the existing support to 32-bit Solaris SPARC, Sun Java System Web Server 6.1 SP7 also supports 64-bit Solaris SPARC.

The 64-bit release may be of use in certain memory-intensive deployments as it enables administrators to configure a larger file cache and Java heap than the 32-bit release. However, existing plug-ins are not compatible with the 64-bit release. These plug-ins have to be recompiled for the 64-bit release by the plug-in vendor. Java web applications that use native, and non-Java libraries should also be recompiled. Therefore, you might prefer to deploy the 32-bit release of Sun Java System Web Server.

Sun Java System Web Server 6.1 SP7 also provides 64-bit support for FastCGI, Reverse Proxy, and Java Web Services Developer Pack (JWSDP) plug-ins.

The 64-bit release is compatible with 64-bit Solaris kernels on UltraSPARC® processors. The 64-bit release cannot be used on x86 processors or with 32-bit Solaris kernels. The 32-bit release continues to be compatible with both 32-bit and 64-bit Solaris kernels.

Note – The 64-bit and 32-bit releases of Sun Java System Web Server are packaged and distributed separately. You cannot upgrade an existing 32-bit Sun Java System Web Server installation to a 64-bit installation. You can distinguish the 32-bit and 64-bit releases by the version string that is displayed in the installer, at server startup, and in the server errors log as follows:

Release	Version String
32-bit	Sun ONE Web Server 6.1SP7
64-bit	Sun ONE Web Server 6.1SP7 (64-Bit)

Solaris PKCS #11 Support

For Web Server's SSL subsystem (NSS) to use external PKCS#11 tokens, you have to configure NSS with the `modutil` command to make it aware of the tokens. The Solaris `libpkcs11` softtoken is a PKCS#11 compliant token which can be used with NSS. As an additional benefit on UltraSPARC-T1, systems using the Solaris 10 `libpkcs11` task will make use of the platform crypto acceleration support.

Run the `modutil` command without any arguments for usage information. For example, to add the Solaris 10 `libpkcs11` task as a PKCS11 token in NSS.

1. Ensure that SSL support has been initialized for the web server instances.
2. Run the following command:

```
% modutil -dbdir $ALIASDIR -dbprefix $PREFIX -add libpkcs -libfile
/usr/lib/libpkcs11.so -mechanisms RSA
```

where

- `$ALIASDIR` is the path to the `alias` directory in the install root where the NSS database files are located.
- `$PREFIX` is the prefix used by the `key3` and `cer8` database files in the alias directory and is of the form `https-$INSTANCENAME-`.

The `-mechanisms` flag makes this token the preferred initial provider for the given algorithms.

3. Run the `modutil` command without any arguments for a list of all possible mechanisms.
4. Initialize the `libpkcs11` provider's password with `pktool`.

```
% pktool setpin
```

For further details on configuring NSS, see the `libpkcs11(3LIB)`, `pkcs11_softtoken(5)`, and `pktool(1)` man pages. For more information about `modutil`, see <http://www.mozilla.org/projects/security/pki/nss/tools/modutil.html>.

Localized Version Support

If you are using a localized version of Web Server 6.1x, you can take advantage of the existing localization features by installing Sun Java System Web Server 6.1 SP7 over the existing server. Sun Java System Web Server 6.1 SP7 is available in Japanese, Simplified and Traditional Chinese, French, Spanish, German, and Korean.

Supported Platforms

Sun Java System Web Server 6.1 SP7 can be installed on the Solaris, HP-UX, AIX, Linux, and Windows platforms. For more information about installation requirements, see “[Required Patches](#)” on page 15 in these release notes and *Sun Java System Web Server 6.1 SP7 Installation and Migration Guide*. The following table summarizes platform support.

Note – HP-UX 11i is supported only on PA-RISC platforms.

TABLE 1 Sun Java System Web Server 6.1 SP7 Supported Platforms

Vendor	Architecture	Operating System	Minimum Required Memory	Recommended Memory	Recommended Disk Space
IBM	PowerPC	AIX 5.1*, 5.2, 5.3	64 MB	192 MB	256 MB
Hewlett-Packard	PA-RISC 2.0	HP-UX 11.11	64 MB	192 MB	256 MB
Microsoft	x86	Windows 2000 SP4 or higher Windows XP Professional Windows 2000 Advance Server Windows 2003 SP1 Enterprise Edition (32 bit)	64 MB	192 MB	256 MB
Sun	SPARC**	Solaris 8, 9, 10	64 MB	192 MB	256 MB
Sun	SPARC** (64-bit)	Solaris 10	64 MB	192 MB	256 MB
Sun	SPARC**, x86	Trusted Solaris 8 (Professional Services Engagement)***	64 MB	192 MB	256 MB
Sun	x86	Solaris 9, 10	64 MB	192 MB	256 MB
Sun	x86	Sun Linux 5.0 (Deprecated)****	64 MB	192 MB	256 MB

TABLE 1 Sun Java System Web Server 6.1 SP7 Supported Platforms *(Continued)*

Vendor	Architecture	Operating System	Minimum Required Memory	Recommended Memory	Recommended Disk Space
Red Hat	x86	Red Hat Advanced Server 2.1 - Linux kernel 2.4.9-e.3smp - glibc-2.2.4-26 - ncurses-4-5.0-5 Red Hat Enterprise Linux 3.0 update 1 - uname -r: 2.4.21-9.ELsmp Red Hat Advanced Server 4.0 SuSE Linux Enterprise 9.0	64 MB	192 MB	256 MB

* AIX 5.1 is deprecated.

** As of iPlanet Web Server 6.0, older SPARC CPUs are not supported. Sun Java System Web Server 6.1 continues to support the UltraSPARC architecture.

*** Sun or Sun Partner Advantage professional services highly recommended.

**** Support for Sun Linux 5.0 is deprecated and will be removed in the next release of the Sun Java System Web Server.

For better performance and support, migrate your Web Server to a supported operating system.

Note – For a Solaris installation, Sun Java System Web Server (SP5 onwards) supports Global Zone with Sparse Root Zone and Whole Root Zone.

Required Patches

Make sure to update your operating system with the latest applicable patches.

Note – To upgrade from Java ES 4 to Sun Java System Web Server 6.1 SP7, you should add the security patches along with the Web Server patches.

- [Solaris Patches](#)
- [HP-UX Patches](#)
- [AIX Patches](#)

Solaris Patches

Solaris users must have the Sun recommended patch cluster installed. For more details, see <http://sunsolve.sun.com>.

Solaris 8 Release (SPARC)

- Solaris release 8 2/02
- Sun recommended latest Security and Recommended patch cluster

Solaris Release 9 (SPARC and x86)

- Solaris release 9 8/03 or above
- Sun recommended latest Security and Recommended patch cluster

HP-UX Patches

The following HP-UX patches are required for Sun Java System Web Server 6.1 SP7.

HP-UX 11i

- HPUX11i-OE B.11.11.0312 (HP-UX 11i Operating Environment Component)
- HPUXBase64 B.11.11 (HP-UX 64-bit Base OS)
- HPUXBaseAux B.11.11.0312 (HP-UX Base OS Auxiliary)
- FEATURE11-11 B.11.11.0209.5 (Feature Enablement Patches for HP-UX 11i, Sept 2002)
- HWEnable11i B.11.11.0412.5 (Hardware Enablement Patches for HP-UX 11i v1) BUNDLE B.11.11 (Patch Bundle)
- BUNDLE11i B.11.11.0306.1 (Required Patch Bundle for HP-UX 11i, June 2003)
- GOLDAPPS11i B.11.11.0506.4 (Applications Patches for HP-UX 11i v1, June 2005)
- GOLDBASE11i B.11.11.0506.4 (Base Patches for HP-UX 11i v1, June 2005)
- JAVAOOB 2.03.01 (Java2 Out-of-box for HP-UX)
- PHCO_29109 1.0 (Pthread enhancement and fixes)
- PHCO_30544 1.0 (Pthread.h fix and new enhancement)
- PHCO_29495 1.0 (libc cumulative patch)
- PHCO_31923 1.0 (libc cumulative header file patch)
- PHKL_25842 Thread Abort (or its superseded patch)

AIX Patches

The following AIX patches are required for Sun Java System Web Server 6.1 SP7.

AIX 5.1

- Base-level OS – AIX 5.1
- Maintenance-level patches – 5100-09
- JDK APAR – IY46667 must be applied

AIX 5.2

- Base-level OS – AIX 5.2
- Maintenance-level patches 5200-07 or above
- JDK APAR – IY46668 must be applied

If you have deployed Java web applications on the Web Server, set the following environment variables to the values specified below (as per the IBM JDK documentation) before starting the server:

- `export AIXTHREAD_SCOPE=S`
- `export AIXTHREAD_MUTEX_DEBUG=OFF`
- `export AIXTHREAD_RWLOCK_DEBUG=OFF`
- `export AIXTHREAD_COND_DEBUG=OFF`

You can directly add the above code line to the Web Server start script.

AIX 5.3

- Base-level OS – AIX 5.3
- Maintenance-level patches 5300-03 or above

Supported Browsers

The following browsers are supported with Web Server 6.1 Administration GUI:

UNIX® and Windows platforms:

Mozilla 1.7 or later
Firefox 1.0.4 or 1.5 or later
NetscapeNavigator™ 7.0 or later

Windows platform:

Microsoft Internet Explorer 6 or later

Impact of US DST Changes 2007

Daylight Savings Time (DST) will start in U.S.A from the second Sunday of March and end on the first Sunday of November. This will impact the date and time rules of the operating system and JDK/JRE.

To make sure that log files contain the correct time in US time zones, and that Administration Server and Java Web Applications are not impacted by this change, download and use the appropriate operating system patches. You can download the Solaris patches from <http://sunsolve.sun.com/search/document.do?assetkey=1-26-102775-1>.

For other platforms, download similar DST compatible patches from operating system vendor's web site.

Web Server 6.1 SP7 packages DST compatible JDK 1.4.2_13 on the Solaris, Windows, and Linux Platforms. Web Server 6.1 SP7, however, does not package JDK on HP-UX and AIX platforms. For these two platforms, download the appropriate DST compatible JDK from the HP or IBM web sites, prior to Web Server 6.1 SP7 installation. JDK versions for the supported platforms are as follows:

- Solaris:1.4.2_13
- Windows: 1.4.2_13
- Linux: 1.4.2_13
- HP-UX: 1.4.2_12
- AIX: 1.4.2 SR 7

Deprecated or Modified Public Interfaces in Sun Java System Web Server 6.1

The following public interfaces in Sun Java System Web Server 6.1 may be deprecated or modified in non-compatible ways in a future Web Server release. These interfaces remains unchanged within the Web Server 6.1 product. Scripts that rely on these interfaces may have to be updated to function with future Web Server releases.

TABLE 2 Deprecated or Modified Public Interfaces

Configuration File or Utility	Description
magnus.conf	Modified. Some functionality might be moved to other files.
server.xml	Modified. Schema and functionality might be modified.

TABLE 2 Deprecate or Modified Public Interfaces (Continued)

Configuration File or Utility	Description
nsfc.conf	Deprecated. Functionality might be moved to other files.
dbswitch.conf	Deprecated. This file may be eliminated and functionality might be moved to other files.
password.conf	Deprecated. This file may be eliminated; functionality might be moved to other files.
file layout	Modified. The configuration file structure might be modified.
start, stop, restart, and rotate scripts	Modified. The names and/or locations of these utilities might change.
wdeploy application	Deprecated. This utility may be eliminated and functionality might be integrated with other management utilities.

Installation, Upgrade, and Migration Notes

This section includes notes about installing, upgrading, and migrating your Sun Java System Web Server. For detailed information about these topics, refer the *Sun Java System Web Server 6.1 SP7 Installation and Migration Guide*. For known issues in this release of Sun Java System Web Server, see [“Known Issues” on page 50](#).

Installation notes

Note the following cautions:

- Do not install Web Server into a directory with spaces in the name.
Web Server will not start if it is installed into a directory with spaces in the name, for instance, Program Files. You will not receive an error message about this problem during installation, but following installation the server will not start.
- Web Server cannot be set up on Red Hat Linux Advanced Server 3.0 without `compat-libstdc++`.

Upgrade

When you install Sun Java System Web Server 6.1 SP7 over an existing installation of Sun Java System Web Server, the installer automatically carries out the upgrade.

If you have Sun ONE Web Server 6.1 SP1 installed, point the Sun Java System Web Server 6.1 SP7 installer to the location of the 6.1 SP1 installation and then upgrade.

If you have the Sun Java Enterprise System 1 installed on your system and you want to upgrade the Sun ONE Web Server 6.1 that is part of Sun Java Enterprise System 1 to Sun Java System Web Server 6.1 SP7, refer the *Sun Java Enterprise System 2004Q2 Installation Guide*.

Migration

Direct migration from a version of iPlanet™ Web Server earlier than 4.1 to Sun Java System Web Server 6.1 SP7 is not supported. You must first migrate your legacy server to iPlanet Web Server 4.1, and then to Sun Java System Web Server 6.1 SP7.

For detailed migration information, see *Sun Java System Web Server 6.1 SP7 Installation and Migration Guide*. This guide contains information about migrating from version 4.1 to 6.1 and from version 6.0 to 6.1.

Product Documentation

Sun Java System Web Server includes a complete set of product documentation at <http://docs.sun.com/coll/1308.4>.

Sun Java System Web Server manuals are available as online files in PDF and HTML formats. The following table lists the tasks and concepts described in each manual.

TABLE 3 Sun Java System Web Server Documentation Roadmap

Subject	Documentation
Late-breaking information about the software and documentation	<i>Sun Java System Web Server 6.1 SP7 Release Notes</i>
Getting started with Sun Java System Web Server, including hands-on exercises that introduce server basics and features recommended for first-time users.	<i>Sun Java System Web Server 6.1 SP7 Getting Started Guide</i>
Performing installation and migration tasks: ■ Installing Sun Java System Web Server and its various components, supported platforms, and environments ■ Migrating from a previous version of Sun Java System Web Server	<i>Sun Java System Web Server 6.1 SP7 Installation and Migration Guide</i> The guide can also be accessed from your Web Server installation: <code>server-root/manual/https/ig/</code>

TABLE 3 Sun Java System Web Server Documentation Roadmap (Continued)

Subject	Documentation
Performing the following administration tasks: ■ Using the Administration and command-line interfaces ■ Configuring server preferences ■ Using server instances ■ Monitoring and logging server activity ■ Using certificates and public key cryptography to secure the server ■ Configuring access control to secure the server ■ Using Java 2 Platform, Enterprise Edition (J2EE platform) security features ■ Deploying applications ■ Managing virtual servers ■ Defining server workload and sizing the system to meet performance needs ■ Searching the contents and attributes of server documents, and creating a text search interface ■ Configuring the server for content compression ■ Configuring the server for Web publishing and content authoring using WebDAV	<i>Sun Java System Web Server 6.1 SP7 Administrator's Guide</i> The guide can also be accessed from your Web Server installation: <code>server-root/manual/https/ag/</code>
Using programming technologies and APIs to do the following: ■ Extend and modify Sun Java System Web Server ■ Dynamically generate content in response to client requests ■ Modify the content of the server	<i>Sun Java System Web Server 6.1 SP7 Programmer's Guide</i>
Creating custom Netscape Server Application Programmer's Interface (NSAPI) plug-ins	<i>Sun Java System Web Server 6.1 SP7 NSAPI Programmer's Guide</i>
Implementing Servlets and JavaServer Pages (JSP) technology in Sun Java System Web Server	<i>Sun Java System Web Server 6.1 SP7 Programmer's Guide to Web Applications</i>

TABLE 3 Sun Java System Web Server Documentation Roadmap (Continued)

Subject	Documentation
Editing configuration files	<i>Sun Java System Web Server 6.1 SP7 Administrator's Configuration File Reference</i>
Tuning Sun Java System Web Server to optimize performance	<i>Sun Java System Web Server 6.1 SP7 Performance Tuning, Sizing, and Scaling Guide</i>
FastCGI plug-in information	<i>Sun Java System Web Server 6.1 SP7 FastCGI Plug-in Release Notes</i>
Reverse Proxy plug-in information	<i>Sun Java System Web Server 6.1 SP7 Reverse Proxy Plug-in Release Notes</i>

Accessibility Features for People With Disabilities

To obtain accessibility features that have been released since the publishing of this media, consult Section 508 product assessments available from Sun upon request to determine which versions are best suited for deploying accessible solutions. Updated versions of applications can be found at <http://sun.com/software/javaenterprisesystem/get.html>. For information on Sun's commitment to accessibility, see <http://sun.com/access>.

Resolved Issues

This section lists the most important issues fixed in the following releases:

- [Issues Resolved in 6.1 SP7](#)
- [Issues Resolved in 6.1 SP6](#)
- [Issues Resolved in 6.1 SP5](#)
- [Issues Resolved in 6.1 SP4](#)
- [Issues Resolved in 6.1 SP3](#)
- [Issues Resolved in 6.1 SP2](#)
- [Issues Resolved in 6.1 SP1](#)
- [Issues Resolved in 6.1](#)
- [Issues Resolved in 6.1 Documentation](#)

Issues Resolved in 6.1 SP7

The following table lists the issues resolved in Sun Java System Web Server 6.1 SP7.

TABLE 4 Issues Resolved in Sun Java System Web Server 6.1 SP7

Problem ID	Description
4856895	On UNIX: The watch dog process crashes on multiple CPUs machine during server shut down.
6158040	While migrating from 4.1 to 6.1, the JAVA parameters are missing in the server.xml file.
6206179	Internal log rotation rotates the files twice if the system time is changed between two scheduled rotations.
6213097	While migrating from 4.1 to 6.0, ktsearch.jar does not get migrated correctly on JES3.
6276594	A PUT request sent with the Transfer-encoding: chunked header along with a request body fails.
6292582	SNMP MIB's "Fraction of process memory in system memory" which is part of iws.mib, gives the wrong results when queried by the SNMP Manager.
6315783	In the French locale, Online Help links on the Search page lead to English pages.
6348395	When IWSSessionManager is used, invalidating a session does not call the sessionDestroyed() of HttpSessionListener.
6350502	Pragma and cache-control headers cause interoperability problems.
6358858	zlib library throws an internal error.
6367672	The restart script fails when MaxProcs is greater than 1(one).
6376035	Unable to configure the Web Server to successfully run a JSP file that contains a jstl tag.
6376082	Need to support JNDI simple names for lookup in web applications for compatibility with the Application Server product.
6380777	Cannot add pl file suffix for magnus-internal/cgi through the Administration GUI.
6381747	If a session attribute implements HttpSessionBindingListener, the session expires after the session time-out period regardless of whether the session object is accessed.
6382704	Administration server monitors the server statistics even if the Monitor Web Server Statistics option is disabled.
6384456	When a web application attempts to use an object inappropriately, it crashes the web server.
6384640	Concurrent restart requests kill the Web Server processes.
6388092	Images stored in the /ns-icons directory are not displayed properly in Internet Explorer.
6388766	On Windows: treatment of "\", the Japanese backslash mark (Yen) is different when a new CGI shell directory is created or edited.
6392159	The restart script fails to restart the Web Server intermittently, causing the Web Server to hang.

TABLE 4 Issues Resolved in Sun Java System Web Server 6.1 SP7 (Continued)

Problem ID	Description
6392644	Incorrect URL in Web Server 6.0 SP10 and Web Server 6.1 SP5 Readme files.
6400307	The cluster control functionality of Admin GUI hangs when a variable is added.
6418529	The search page content has a mix of both English and other languages.
6421617	Problem having server-parsed HTML and .htaccess with the restricted group option.
6426382	If the value of net_write SAF is three times more than the fragment size of the HTTP compression, a net_flush call does not flush all the data.
6428199	Search filter fails if the userid of a member belonging to a user group contains "," (comma).
6428403	When a Servlet filter appends additional data to a response body generated by core, the server might crash if the size of the additional data is larger than the original response body.
6429293	Security vulnerability in Web Server 6.1 sample applications.
6433752	The ssl-check function does not work with NSAPI-based plug-in.
6436535	Server hangs on stop or restart when a connection is in the connection queue.
6437635	Issues with revoked client certificates and CRL files under certain conditions.
6438408	SNMP process leaks memory with each connection request.
6439519	If the ObjectType fn="force-type" directive is removed from the obj.conf file, the server may crash when a request is made for multiple byte ranges.
6441402	LDAP server configuration fails with Web Server 6.1 SP5 64-bit version.
6442651	If the URL to a web application contains URI parameters, it causes recursive redirection.
6448255	On Windows: File handle is not released by the webservd process under certain conditions.
6451182	Web Server 6.1SP6 experiences high CPU in parseParameters().
6455812	Thread safety problems in the handling of some magnus.conf directives cause certain configurations to crash on startup.
6458771	watchdog can crash when ./start is executed before ./stop completes.
6465691	Display error with HTML page in <jsp:include> with tiles.
6471388	On Windows: Using hidden shared network drives as document directories results in <i>Not Found</i> error.
6473494	Signature DigestInfo parsing problems in NSS.
6477953	On Windows: Web Server (stand-alone) modifies the NSPR/NSS bits thereby breaking the FIPS mode.
6477981	FIPS140 mode is broken in Web Server (stand-alone) due to missing .chk files.

TABLE 4 Issues Resolved in Sun Java System Web Server 6.1 SP7 *(Continued)*

Problem ID	Description
6478972	The JDK shipped with Web Server 6.1SP6 is not compatible with 2007 Daylight Saving Time (DST) changes.
6480026	Some keep-alive connections do not get closed after the specified time.
6482272	SNMP master agent does not send traps when the Web Server instance's operational status changes.
6482560	On HP-UX: Web Server crashes with 1.4.2.09 + and 1.5.0.3+ JVMs.
6488468	On HP-UX: Remove the packaged JDK for Web Server.
6489275	Web Server 6.1 should be integrated with the latest NSS version for FIPS 140-2 compliancy.
6494886	Low-latency/high concurrency mode sometimes does not get switched dynamically.
6496892	On AIX: Remove the packaged JDK for Web Server.
6507264	When the default log level is set to <code>info</code> , finer log messages are still being printed at server startup.
6508092	Server startup fails in Web Server 6.1 SP7 on the HP-UX platform when installed through express silent mode.
6510957	The <code>pkginfo</code> file in the Solaris and RPM specification files points to the old service pack(SP5).

Issues Resolved in 6.1 SP6

The following table lists the issues resolved in Sun Java System Web Server 6.1 SP6.

TABLE 5 Issues Resolved in Sun Java System Web Server 6.1 SP6

Problem ID	Description
5027774	<code>WW_umask</code> in the configuration is NULL in Solaris.

TABLE 5 Issues Resolved in Sun Java System Web Server 6.1 SP6 (Continued)

Problem ID	Description
6334248	Windows 2003 mapped network drive not readable as a document root directory.
6397340	Additional Information: To use a document root in a shared network resource, a UNC path has to be used, for example, <code>//machine-name/shared-folder-name</code>. A mapped drive letter like X: will not work as document root. You can specify the document root either manually in <code>server.xml</code> or through the Administration GUI by accessing Virtual Server Class->Content Management->Primary Content Directory. For using a shared directory on UNIX, do the following: 1. Install SFU (Windows Services for UNIX) on the Windows machine where Web Server is installed. 2. Map the Windows users and groups to UNIX users and groups through the SFU user interface shortcut under the Start menu. Note – While running Web Server, User Name Mapping Service (which is part of SFU) has to run. When using a shared directory from another Windows machine, ensure that the password of the Administrator account on both the machines is the same, otherwise the service will not be able to access the network resource. Whether the shared directory is on UNIX or Windows, the service representing the instance server has to run as a particular user of Administrators group like <code>. /Administrator</code> rather than running it on the default local system account. Go to Control Panel->Administrative Tools->Services and make the changes in the Properties dialog box.
6384651	For HP-UX: Web Server sometimes returns the wrong last-modified header and date header.
6404983	Searching of Users and Groups through the LDAP server using the Administration GUI fails.
6316387	Web Server uses incorrect logic when processing the <code>if-unmodified-since</code> header.
6318003	Web Server returns the actual content with 412 code for requests that contains <code>if-unmodified-since</code> and <code>range</code> .
6312702	<code>HttpServletResponse.reset()</code> does not work as expected.
6360180	Crash in <code>webapps/qa_app/jsp/encodedurlforwarder</code> .

TABLE 5 Issues Resolved in Sun Java System Web Server 6.1 SP6 (Continued)

Problem ID	Description
6316881	Multibyte characters in headers cannot be retrieved by <code>req.getHeader()</code>. Workaround: By default, request headers are encoded using UTF-8 enc. You can customize request header encoding at the web application level by following these steps: - Set the value of the configuration parameter <code>use-requestenc-for-headers</code> to any value such as <code>yes</code>, <code>true</code>, or <code>on</code>, in the web application's <code>sun-web.xml</code>. In the following example, request header encoding is enabled for the web application: <pre><sun-web-app> <parameter-encoding form-hint-field="j_encoding"> <property name="use-requestenc-for-headers" value="true" > <session-config> <session-manager> </session-config> <jsp-config> </sun-web-app></pre> - Set the name of the character encoding in the application (JSP/Servlet) using <code>request.setCharacterEncoding()</code>.
6318406	Redeploying the web application causes ownership changes on files.
6294743	Updating JSP search collection creates new tmp files in the converted directory and fills up the disk space.
6197731	Internal error on accessing Administration Server.
6316262	Administration GUI does not reflect the changes made to the access log path.
6378521	<code>makefiles</code> need a cleanup in 6.1.
6318200	Buffer overflows when formatting installer error messages.
6343584	Deadlock in <code>keepalive</code> subsystem caused by NSS blocking.
6326965	Administration password in plain text in a file readable by anyone. Workaround: Use either of these two workaround: - Delete the file <code>.adminpasswd</code> manually. - Change the permissions of the <code>.adminpasswd</code> file to <code>400</code>.

TABLE 5 Issues Resolved in Sun Java System Web Server 6.1 SP6 (Continued)

Problem ID	Description
4991884	Search indexing hangs on large .doc files.
6246214	Workaround: 1. Add the following property within the SEARCH element. <pre><SEARCH> <PROPERTY name="conversionExtensions" Value="pdf,doc"> : : </SEARCH></pre> 2. Restart the server. 3. Add .doc files to the collection.
6356179	The Administration Server of Web Server 6.1 does not change the id attribute in the USERDB tag. Additional Information: To change the id attribute in the USERDB tag, use either of these two option: ■ Create one virtual server class file. Use this class file as template to create multiple virtual servers. In this case, most of the configuration defined by VS Class will be inherited by all virtual servers. ■ Create multiple virtual server class files within a server instance (https - localhost). Each of these virtual server class files can contain one or more virtual servers.
6333656	The MIME type file in Web Server binaries must include the StarOffice/OpenOffice MIME types.
6342394	Cron log rotation on Windows can create invalid archive logs with a specific instance name.
6358851	SNMP Master and Sub Agent startup fails.
6336309	Problem with rewriting the special character '&' in server.xml.
6335483	Create symbol enabled builds for HP-UX (non-stripped).
6332442	Web Server crashes on Linux when Init fn="stats-init" is present in magnus.conf.
4718466	After importing the 6 th key to crypto, Web Server 6.0 displays an error: <i>server not avail</i> .
6340799	During a stress test on S1WS6.1SP5 SSL on SUSE Linux Enterprise Server 9 SP2, webservd has a memory leak.
6353988	Cannot set client trust or server trust on some built-in Certificate Authorities (CAs) for Web Server 6.1SP4/SP5.
6329109	Web Server 6.1: Lock file conflict for multiple installations running on the same port but with different IP addresses.

TABLE 5 Issues Resolved in Sun Java System Web Server 6.1 SP6 (Continued)

Problem ID	Description
6378545	While updating a JSP search collection, updating a JSP file fails re-indexing.
6280778	PDF files unable to be indexed with Web Server 6.1 search. This error occurs on HP-UX with OS patch PHSS_28871 installed.
6302377	Servlet container UTF-8 URI mapping vulnerability.
6370089	Integrate NSS 3.11.1 with Web Server 6.1 SP6.
6285129	Using % in the jsp:param value fails in some circumstances.
6324034	Web Server has default limit for upload file size as 10 MB.
6361485	htaccess not working in Web Server 6.1 SP5 for User Document Directories.
6350122	WS6.1SP5 on Windows: Cron-based log rotation fails with garbage characters inside the scheduler.conf file.
6388243	Installing a CRL on Web Server 6.1SP4 (Windows) adds it to the CKLs section in the Administration GUI.
6377343	With NSS 3.11.1, certificates with new critical extensions like PolicyConstraints mentioned in RFC3280 can be imported into the certificate database.
6376634	The SSL session was not timing out as expected when SSL3SessionTimeout or SSLSessionTimeout was configured to the user-defined value in magnus.conf. NSS 3.11.1 fixed the magnus.conf directives SSL3SessionTimeout and SSLSessionTimeout.

Issues Resolved in 6.1 SP5

The following table lists the issues resolved in Sun Java System Web Server 6.1 SP5.

TABLE 6 Issues Resolved in Sun Java System Web Server 6.1 SP5

Problem ID	Description
6322443	NSFC buffer size should be configurable (64-Bit). Additional Information: Use the new BufferSize nsfc.conf directive to configure the size of the buffer used to transmit file contents on cache misses. The following directive can be added to nsfc.conf to increase the buffer size from its default of 8192 bytes to 16384 bytes: BufferSize=16384 Larger buffer size might result in improved throughput at the cost of increased latency and memory utilization.

TABLE 6 Issues Resolved in Sun Java System Web Server 6.1 SP5 (Continued)

Problem ID	Description
6234284	JES3 Web Server installation fails or core dumps if the Administration password contain shell meta characters such as ;, \$, &, ^, *, (.), , <, >, ', ", \, and so on in the Administration password.
6232465	Include -N linker option for HP-UX Web Server builds.
6171389	Input filter is called only for the first HTTP request when using Keep-Alive. All subsequent requests of the TCP connection are not being processed by the filter.
6195820	Global resources are not available to load-on-startup Servlets.
5042600	Unable to migrate 6.0 SP7 Web Server instance to 6.1 SP2.
6244615	Web Server migration should correctly update Root Certs.
6219618	JES Web Server 6.1 SP2 failed to index PDF version 1.5 (Acrobat 6.x) document for creating Search Collection.
6239342	Cross-site scripting vulnerability in a default error page.
4879994	SSL: Data larger than 8k is huge when the request triggers new SSL handshake. Additional Information: By default, Web Server can upload files of sizes up to 1 MB (when client certificate authentication is optional). To upload files larger than 1 MB, increase SSLClientAuthDataLimit in the magnus.conf file. In case of simultaneous uploading of very large files, Web Server uses large amount of memory. To minimize memory utilization do any of the following actions: ■ If authentication is not required, turn off authentication. ■ If authentication is required, make it mandatory by setting require=1 in the obj.conf. PathCheck fn="get-client-cert" dorequest="1" require="1"
6229472	.htaccess directive is broken.
6170938	acceptLanguage does not work for User Document Directories.
6180991	Internal-Daemon Log Rotation does not work for files larger than 2 GB.
6254121	.htaccess fails to protect resources that do not have a corresponding file.
6185904	New NSS error codes are not being handled properly.

TABLE 6 Issues Resolved in Sun Java System Web Server 6.1 SP5 (Continued)

Problem ID	Description
6262885	Switching from HTTPS to HTTP causes generation of new session. Additional Information: Set the <code>isSecure</code> attribute of the session cookie for the web application under the <code>cookie-properties</code> to either <code>true</code> or <code>false</code> in the web application's <code>sun-web.xml</code>. The default value is <code>true</code>. In the following example, <code>isSecure</code> is set to <code>false</code> for the web application by setting the parameter value to <code>false</code>. <pre><session-config> <cookie-properties> <property name="isSecure" value="false"> </cookie-properties> </session-config></pre>
6222728	SNMP services fail in Web Server 6.1 SP2/SP3 on the Windows 2000 platform.
6273472	Web Server 6.1 SP4 uninstall script displays an error message – 'No such file or directory'.
6259257	Some PDF files fail to be indexed by the search engine.
6253489	Using JSP and several includes within the JSP throws <code>ClassCastException</code> in the <code>ApplicationDispatcher</code> .
6285847	Requests with double Content-Length header should get rejected (HRS vulnerability). Workaround: Add the <code>StrictHttpHeaders</code> directive in <code>magnus.conf</code> and set its value to <code>on</code>.
6275413	Incorrectly configured home-page SAF crashes server.

Issues Resolved in 6.1 SP4

The following table lists the issues resolved in Sun Java System Web Server 6.1 SP4.

TABLE 7 Issues Resolved in Sun Java System Web Server 6.1 SP4

Problem ID	Description
6021153	Required patch ID 112396-03 does not exist. The patch #112396-03 listed as required in earlier release notes was incorrect. The correct patch number is 112396-02. Solaris users must have the Sun recommended patch cluster installed, available in the Recommended and Security Patches section at http://sunsolve.sun.com. <i>Solaris 8 (SPARC)</i> ■ Solaris 8 Update 7 ■ Sun recommended latest Security and Recommended patch cluster <i>Solaris 9 (SPARC and x86)</i> ■ Solaris 9 Update 4 or above. ■ Sun recommended latest Security and Recommended patch cluster
6066252	Client certificates with AKI extension causes SEC_ERROR_UNKNOWN_ISSUER error.
6092498	Web Server 6.1 fails to validate a client certificate with LDAP if the certificate contains Czech characters.
6171311	Frequent errors encountered when running Web Server with JDK 1.5.
6171784	Web Server performance issue with certain error logging configuration.
4925875	For Korean HTML collection, Korean word search with asterisk does not return any result.
6171950	Precompiled JSP files do not work as expected with reload-interval parameter in sun-web.xml. Workaround: Use the property use-precompiled (set to true under jsp-config in sun-web.xml) to specify that the JSP files are precompiled and should never need to be compiled at runtime. A sample sun-web.xml is as follows: <pre><sun-web-app> <session-config> <session-manager> </session-config> <jsp-config> <property name="use-precompiled" value="true" > </jsp-config> </sun-web-app></pre>
5048940	Superuser Access Control page in Administration GUI not accessible after upgrade from SP1.
6177544	libpassthrough.so not present after RPM installation of plug-in.

TABLE 7 Issues Resolved in Sun Java System Web Server 6.1 SP4 (Continued)

Problem ID	Description
6176231	Sun Java System Web Server 6.1 SP4 — Using the Delete certificate Administration GUI (bin/https/admin/security) core dumps with NSS 3.9.3 beta.
6173365	Multiple package installers for the same build of Web Server of the Solaris SPARC/x86 platform.
5039633	Update NSS to 3.9 series.
5063134	Java Enterprise System symbolic link not used for J2SE location.
6067407	Problems using <code>ACL_LDAPSessionFree()</code> .
6173293	Web Server always sets content type to text/html when Servlet filter is set.
6176264	Web Server 6.1 SP4 Solaris x86 unable to start the SSL instance through the Administration GUI.
6180677	Web Server SP4 for JES3 is unable to upgrade on top of Web Server SP2 for JES2.
6066139	Tests fail while running Web Server with JDK1.5_beta2 release.
6088595	Administration console throws exception with JDK 1.5.0_beta2 while creating and editing classes.
4904913	I18N search: '?' wildcard search in Japanese causes wrong match.

Issues Resolved in 6.1 SP3

The following table lists the issues resolved in Sun Java System Web Server 6.1 SP3.

TABLE 8 Issues Resolved in Sun Java System Web Server 6.1 SP3

Problem ID	Description
4798461	GUI does not correctly reflect when "Transmit File" is turned off.
4904896	I18N search: Sort encoding list of Default Encoding on search Administration GUI.
4905412	GUI does not permit to manage users in the <code>keyfile</code> database.
4991338	Web Server Administration console does not show all the tabs (in Mozilla browser).
5001819	Web Server 6.1: Nova Search Engine sometimes does not pick up document.
5014693	Java filters, HTTP compression, and SHTML fail to interoperate.
5021077	A <code>java.lang.NullPointerException</code> is thrown if you click on the OK button without selecting the Directory Server.

TABLE 8 Issues Resolved in Sun Java System Web Server 6.1 SP3 (Continued)

Problem ID	Description
5025617	Web Server's JNDI needs to map resource-env-ref from sun-web.xml.
5042676	Request flow problem with Client tag code=302.
5056989	Enable prefixing of hostname in session ID. You can enable prefixing hostname in session ID for the web application by setting the value of the property <code>prefixSessionIDWithHostname</code> under <code>manager-properties</code> to <code>yes</code>, <code>true</code>, or <code>on</code>, in the web application <code>sun-web.xml</code>. In the following example, prefixing host name in session ID is enabled for the web application by setting the parameter value to <code>true</code>. <pre><session-config> <session-manager> <manager-properties> <property name="prefixSessionIDWithHostname" value="true"> </manager-properties> </session-manager> </session-config></pre>
5057749	Web Server 6.1 SP2: Plug-in defined in <code>certmap.conf</code> does not load.
6041356	Memory leaks when <code>AdminLanguage</code> and/or <code>DefaultLanguage</code> is specified in <code>magnus.conf</code> .
6057426	The load balancer plug-in (formerly Resonate plug-in) <code>loadbal.so</code> does not work on the Solaris SPARC platform. The location of the <code>loadbal.so</code> plug-in is <code>server-root/plugins/loadbal.so</code>.
5065017	Servlet session data problem.
5048051	Create collection fails on Linux with RPM install.
5029954	Stack size is ignored when <code>ConnQueueSize/RqThrottle</code> is 0.
4898077	Inconsistent behavior between <code>HttpServerAdmin</code> and iWS console.
5013100	Two ports (for example, 2500 and 02500) are added in <code>server.xml</code> as different ports.

TABLE 8 Issues Resolved in Sun Java System Web Server 6.1 SP3 (Continued)

Problem ID	Description
5046634	2-byte character in HTTP header and plug-in programs. You can enable response header encoding at the web application level by setting the value of the configuration parameter <code>use-responseCT-for-headers</code> to <code>yes</code>, <code>true</code>, or <code>on</code>, in the web application's <code>sun-web.xml</code>. In the following example, response header encoding is enabled for the web application setting the parameter value to <code>true</code>. A sample <code>sun-web.xml</code> is as follows: <pre><sun-web-app> <parameter-encoding form-hint-field="j_encoding"> <property name="use-responseCT-for-headers" value="true" > <session-config> <session-manager> </session-config> </session-config> <jsp-config> </sun-web-app></pre>

Issues Resolved in 6.1 SP2

The following table lists the issues resolved in Sun Java System Web Server 6.1 SP2.

TABLE 9 Issues Resolved in Sun Java System Web Server 6.1 SP2

Problem ID	Description
4536102	I18N: SNMP community name does not show up on Solaris Netscape.
4536194	CGI subsystem makes blocking calls from NSPR user threads.
4536739	Administration ACL and Superuser AC: The 'Allow only from host' option does not work.
4615933	CORE SHTML: Cannot set Content-encoding for <code>.shtml</code> files.
4629796	French Thread pool name displaying garbage characters on JA-NT (Internet Explorer and Netscape).
4651056	Web Server returns 404 for files starting with <code>'..'</code> .
4651206	After adding a new mime type file, there is no way of verifying addition from the GUI.
4651207	Document preference web page should provide a file to use for error responses.
4652009	Customized access log file is not reflected in the GUI in the View Access Log tab.

TABLE 9 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4657465	Need to disable cookie-encoding. By default, the Sun Java System Web Server URL encodes the cookies before sending them to the client. If you do not want the cookies to be encoded, add the following line to <code>sun-web.xml</code>: <pre><property name="encodeCookies" value="false"></pre> For the above example, add the line directly under the <code>sun-web-app</code> tag. Do not embed this line in any other tag.
4664945	Internal Error from URL forwarding form.
4666409	Clearing the <code>ErrorResponse</code> CGI file name.
4676934	Distributed -Administration: Overrides default ACI in Web Server 6.0 SP2.
4676946	No validation of virtual server settings form.
4676950	Internal error on removing <code>http://</code> from URL forwarding form.
4682434	CGI that has scripts to grab environment variables fails to execute.
4682894	Cluster management - Selection of source server deselects target servers.
4684775	Asynchronous DNS is disabled by default.
4707989	Web-application/JSP: load-on-startup not working on JSP files.
4704385	Cluster: Null message in modify cluster when OK is clicked soon after reset.
4705181	User and group is not validating for the users and accepting blank spaces in CGI.
4705204	Newly added ACL files are not getting deleted after selecting delete.
4706063	<code>chroot</code> and directory are not validating correctly.
4711353	Administration: Global SNMP Master Trap Warning displays <i>Form Element Missing:manager?</i> .
4718914	Turn the security ON for any instance server without installing a certificate.
4724503	After enabling IPv6 on GUI Edit listen socket, server will not start.
4727597	Administration GUI gets cluttered when a new server is added with a duplicate port.
4721021	Unable to access absolute URI on SSL enabled server.
4727444	Access Log reports incorrect data.
4732877	<code>urlhosts</code> field does not accept more than one hostname.
4745314	<code>\$id</code> variable in <code>VSCLASS</code> docroot is not working on Windows.

TABLE 9 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4749239	ACLI: Incorrect processing of ACL.
4753601	MaxRqHeader directive in magnus.conf is not working as desired.
4754934	Vignette NSAPI plug-in on Web Server 6.0 not functioning correctly when HTTP1.1 is used.
4761188	LDAP: Improve LDAP dynamic group performance for ACLs. For performance reason, a new LDAP configuration parameter, <code>dyngroups fast</code> is introduced for SP2. With this parameter, Web Server will make an assertion about group membership bypassing nested individuals among dynamic groups. For example, assuming that user <code>alpha</code> belongs to group A, group A is a member of group B by group B <code>memberURL</code> definition (dynamic group), and your ACL only grants group B access. In such case, web server will deny access from <code>alpha</code> because <code>alpha</code> is not regarded as member of group B. If you want to support a nested group, do not define this new config for LDAP authentication service. You will not get performance gain consequently. A sample configuration directory is as follows: <pre>ldapregular ldap://localhost:389/o=TestCentral ldapregular: dyngroups fast</pre>
4763653	Validation required for the form elements in document preferences page.
4764307	Magnus.conf: Performance setting: accepting negative numbers.
4765709	Administration: Configure Directory Service not validating <code>binddn/password</code> .
4770294	Web Server 6.1 on Windows should add CR character to the end of the line in the access log.
4786612	Web Server treats ':' (colon) as a separator between hostname/IP and port in several places. This code needs to be updated to recognize when the ':' is actually part of an IPv6 address.
4787310	Eviction fails in NSFC when <code>SmallFileSpace</code> is set to a low value.
4788075	Setting the PATH variable in magnus.conf for Web Server 6.0 SP5 does not work.
4800173	Performance issue with large ACL file in conjunction with many virtual servers.
4808402	Native authenticator support.
4814097	Unable to select none as a program item under the program groups in GUI.

TABLE 9 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4822720	Keep-alive subsystem should be dynamically tuned. The keep-alive subsystem requires tuning for optimal performance. In Web Server 6.0 this subsystem was tuned for heavy load and performs poorly when only a handful of concurrent keep-alive connections exist. The keep-alive subsystem was modified for Web Server 6.1 SP2 so it performs some dynamic tuning to accommodate the actual load.
4849907	shtml is parsed when execute permission is not set and configured.
4855807	AIX: Web Server hangs after being restarted by watchdog.
4858152	Access log entries in the server.xml file of the migrated instance point to an invalid path.
4869527	SNMP: Test fails for RH Linux 6.2/7.2/Adv Server 2.1, and Sun Linux 5.
4862498	New directory Service Screen not connected to interface.
4870613	Back button not working for frames in Netscape Navigator 7.
4873766	The upload-file SAF does not work correctly with chunked requests.
4882838	Unable to specify protocol for URL in generated redirects. The server generates a self-referencing URL whenever it sends a redirect to a client. As of Web Server 6.1 SP1, the servername attribute of the LS element in server.xml can be used to configure the scheme used in server-generated self-referencing URLs. For example, if an SSL offloader sits between the Internet and the Web Server instance, decrypting SSL-encrypted traffic for http://www.sun.com and relaying it to the Web Server on port 8080, an LS element such as the following could appear in server.xml: <pre><LS remap="ls1" port="8080" security="disabled" ...servername="https://www.sun.com"></pre> The https:// prefix in the servername value instructs the server to use the HTTPS scheme in self-referencing URLs even though the LS is not configured to handle SSL traffic.
4889081	Internal log rotation creates empty logs.
4894033	Distributed-administration: Functioning of Administration ACL 'Allow only from host/IP' is not as per documentation.
4896881	While using untar to expand the Web Server bits, the ownership and group information is not correct.
4897074	On Linux only: When you create a collection, PDF files will not be indexed and added to the collection.
4899105	The highlighting of the connection value in the Edit Virtual Server page is not correct.
4905175	WebDAV ACL settings are inherited into new Virtual Servers.

TABLE 9 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4909378	The Help button in the Edit WebDAV page is not pointing to the correct help page.
4903449	Performance affected with multiprocess mode and one thread.
4905681	The AsyncDNS setting is ignored in Sun Java System Web Server 6.1 SP1. The Web Server never performs asynchronous DNS lookups. Note that even when the magnus.conf has AsyncDNS on, Asynchronous DNS is still turned off.
4908631	An error message status is returned when you try to stop the server when it is not running.
4907288	Cluster Management file transfer not working on Windows.
4909678	Web Server 6.1 Digest authentication is not working for flat files.
4910266	Web Server 6.1: Creating Digest file users through the GUI duplicates users in exponential order.
4904088	Migration final page needs to encode the '<' and '>' characters HTML.
4908986	JDBC: Servlet code UploadServlet mishandles SQL exceptions.
4904896	I18N search: sort encoding list of Default Encoding on search Administration GUI.
4908010	Unable to remove search collection for a newly created virtual server.
4908401	I18N: Un-localized timestamp for each search-returned documents.
4910222	Error on Windows when trying to create a collection with a document root that has back slashes. Workaround: This behavior occurs when you specify a document root that has back slashes or mixed slashes. Use forward slashes.
4911548	Server returns ConfigException while creating the duplicate search collection.
4911656	I18N: Can not go to 'sort by date' link while searching multibyte characters.
4913909	i18n: error adding file with Korean filename - skipping since no read permission.
4913228	Missing quote in Oracle script for jdbcRealm sample application.
4910869	NSFC enhancement needed. Add the ReplaceFiles nsfc.conf directive. When ReplaceFiles=true (default), the existing file cache behavior is preserved. ReplaceFiles=false indicates that once a file is cached, its file cache entry should never be discarded to make room for another file. This setting is useful in benchmark scenarios because eliminates contention on the hit list lock.

TABLE 9 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4910272	Server should not accept mixed slashes for the doc root while adding a new server.
4912254	Web Server installation fails due to set -o noclobber in .env.
4911070	Web Server 6.1: Add listen socket protocol family field is missing for IPv6 address.
4911630	Many of the fields in the magnus editor do not have validations because they are accepting negative integer values.
4911550	Getting ServletException while trying to access the server with additional doc.
4911633	Change Password for the user is not working.
4913566	The URL Forwarding Editing Page is not consistent.
4919473	Updating Security Realm properties from Administration GUI is not reflected in server.xml.
4913289	Help on 'Edit Virtual Class' does not give complete criteria for VS class deletion.
4916331	Keep-alive connections can hang under light load.
4925475	The server.xml createconsole attribute is ignored.
4925938	Null Pointer exception thrown if the user mistakenly edits the VS Administration URL.
4929848	Performance: Web Server polls kstat once per second.
4926414	I18N-korean: Re-indexing collection hangs when missing one or more existing docs.
4935797	certmap.conf file location misrepresented.
4930327	Destination headers are not URL decoded in MOVE/COPY requests.
4933483	SIGCHLD signals are reported on startup.
4935582	TCP_NODELAY need not be set for AF_NCA.
4930642	Source returned when the file's mime.types entry does not end with a carriage return.
4930329	Default values of maxpropdepth is poorly chosen.
4932995	The leading '/' is being removed when deleting web application through Administration GUI.
4935420	Resource picker for restrict access fails for migrated instance of 6.1.
4944850	Address directive not properly migrated when migrating from Web Server 4.1 to 6.1.
4946829	Administration: Creating a new virtual server after migration causes \$user: unable to find value.
4941027	Cross-site scripting in Web Server administration interface.

TABLE 9 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4948397	Web Server 6.1 SP1 SNMP is not working.
4946187	Distributed-Administration: After enabling distributed administration, if an ACL is set to allow authenticated users only, the server still allows access to other users in the Administration group.
4947005	Add server instance is not working on the Solaris x86 platform.
4940040	Administrator's Configuration File Reference defines non-existent TYPE element.
4942750	Search example is incorrect.
4943631	Wrong documentation on the thread pool configuration file.
4941741	Web Server 6.1 SP1 server on Solaris 8 SPARC fails to start due to libCld.so.
4945994	fc_net_write should result in a single system call.
4940418	Third-party profiler support for bytecode instrumentation.
4943329	IWSSessionManager does not work as expected with Web Server 6.1.
4947065	The search web application shows only a maximum of 11 collections.
4947624	Ineffective alert message displayed while re-indexing on Windows.
4950552	Wrong number of results for particular output results (11, 21, 31...).
4954789	Web Server deployment fails with ClassCastException.
4956415	Web Server 6.1 Search: Requesting an ability to display the meta tag description.
4950644	Ineffective alert message displayed while creating a duplicate collection on Linux.
4951860	httpagt depends on NETSITE_ROOT variable.
4957158	fc_open fails when running specweb99 on x86 build.
4952492	MOVE method should rename files when possible.
4958571	PR_NetAddrToString performance is less than expected.
4951264	Web Server crashes during Java-triggered reconfiguration and server shutdown.
4958755	ServletContext.getContext(String) does not return other contexts when called from root context. It returns the root context.
4950653	'Null' is displayed for QoS vsclass values.
4951982	Invalid error message is displayed while configuring LDAP with wrong credentials.

TABLE 9 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4953147	Cron-based log rotation fails when Administration user is root, and instance is non-root. Workaround: Change the user to match the Administration server user in the <code>scheduler.conf</code> file.
4961864	Web Server hangs when using rotate-callback.
4962059	Administration password stored as plain text in file <code>setup.inf</code> .
4969637	Minor coding error in send-error SAE.
4961999	After adding a virtual server, the top frame does not show the virtual server in the dropdown box.
4962624	Administration: No Validation for protocol value in Edit Listen socket.
4963483	The GUI gets cluttered if an ACL file path contains a forward slash.
4968422	Showing up invalid ACL file on the browser in the WebDAV screen.
4966497	Perf Dump data for Average Queueing Delay is not correct.
4970955	Cross-site security issue with Apache sample (<code>\plugins\java\samples\webapps\simple</code>).
4972573	Incorrect behavior in web-apps-sample sample application in Web Server 6.1 SP1.
4972587	Incorrect instructions in <code>index.html</code> of the internationalization sample application.
4976454	Samples shipped with Web Server 6.1.
4970273	FastCGI beta libraries are in RTM Web Server packages.
4976953	AIX 6.0 SP6: forbidden error to a GET for a file with correct group permissions.
4976490	Log messages are truncated.
4975675	Dynamic reconfiguration fails when server is under load.
4976910	<code>NSFC_GetEntryPrivateData()</code> calls <code>NSFC_ExitCacheMonitor()</code> when no entry exists.
4973079	The GUI retains dismissed invalid port entries and populates it when servername field validation fails.
4975788	<code>classpath</code> edited using Internet Explorer is broken; server JVM™ can't start.
4975798	Cannot add path to <code>classpath</code> suffix using web-admin.
4975782	Cannot delete external JNDI reference.
4970188	RPM can't locate system umask.
4971298	<code>pkgchk -n</code> fails for Web Server package in Java ES.

TABLE 9 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4986761	Web Server 6.0 migration fails.
4989231	Server fails to start up on Linux platform. Wrong JDK path during build.
4988104	Edit Virtual Servers page should update the connections value correctly.
4986700	Last-modified and Etag are suppressed when Servlet filters are used.
4991888	The wrong file name is stored for key file configuration.
4992739	Cannot start Web Server instance, after modifying its classpath suffix.
4995447	Web Server 6.1 SP2 RH Linux unable to access Administration GUI; throws error message after login.
4995489	Solaris x86: Distributed Administration cannot be enabled.
4991775	Validation of cookie name in cookie example Servlet.
5002905	Superuser Access Control cannot be set even when Distributed Administration is not enabled.
5012107	POST request body consumed twice when using bad plug-in.
4962659	Search criteria is truncated to 100 characters.
4967580	Search displays wrong links for the SSL enabled instance.
4970181	Stellent filters need to be added to the Linux and Solaris x86 builds.
4975327	indexMetaTags of the nova search should be set automatically.
4975367	Indexing for the meta tag should be case-insensitive.
4997149	Removing documents with a *. * pattern is not removing all the files when the excludeExtensions property is set.
4997178	Server returns null pointer exception while indexing .sxx file when excludeExtensions is set.
4997697	Page numbers are not displayed properly on the search results page.
4844616	Misconfiguration of bswitch causes crash.
4854698	Plug-in crashes with malformed request.
4866965	ACLI: Failed authentication is logged twice in the server errors log file.
4880864	ACL: Web Server returns "404 Not found" errors when ACLs deny access.
4915326	WEBC: granting signedBy permissions to Jar files does not work.
4918754	Web Server 6.1 cannot process HTTP URL GET parameter that is in 8-bit charset.

TABLE 9 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4924921	Cannot set 800 MB of JVM maximum heap size on Windows 2000 using JDK 1.3.1.
4926336	Using % in the value of the JSP parameter corrupts the query string.
4927770	Server aborts with SIGABRT from within libjvm.
4928358	JSP errors are wrongly reported as “Not Found” errors.
4930374	extra-class-path attribute in class-loader element in sun-web.xml does not work as expected.
4932893	Dynamic reloading does not work for web application descriptor files, for example, web.xml.
4939370	Web container thread names are not unique.
4934083	LDAP: Crash during LDAP authentication.
4934562	WEBC: getRemoteUser() does not work for stand-alone JSP files.
4935669	WEBC: Request may not always contain client certificate data.
4935570	Certificate data not always present even when available.
4932547	Tomcat AuthenticatorBase returns 500 instead of 403.
4946762	Out-of-box default realm should be native.
4948123	Web Server 6.1 incorrectly reports client key size in certain situations.
4949842	WEBC: isUserInRole() does not match when using core authentication.
4957829	LDAP: User can enter wildcard '*' for UID in basic authentication.
4960013	Cannot have more than one LDAP realm.
4968857	htconvert not converting .nsconfig wildcard patterns correctly.
4968882	htconvert does not work on 6.1 style server.xml.
4960873	NPE encountered when a session is expired simultaneously by two (2) threads.
4973927	EPIPE signal not caught as an IOException from OutputStream.write().
4976277	Using JDK 1.4.1 provided JNDI connection pool for LDAP pooling.
4983707	Changing the log level to Security causes NullPointerException upon start.
4981028	Distributable semantics in web.xml is not honored by the web container.
4993468	getResourcePaths returns paths that contain '//'.
4996219	webservd leaks memory on RedHat Linux Advance Server 3.0.

TABLE 9 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4997593	Poor integration between NSAPI srvhdrs and HttpServletResponse headers.
4997756	LOCK-UNLOCK is not working properly and the GUI does not show lock information properly.
4997838	Web Server does not start on RedHat Linux AS 3.0 with Security turned On.
5003531	500 error when accessing a web application with transport-guarantee=CONFIDENTIAL from a non-SSL port.
5004542	ASN.1 parsing bugs/brute forcer program can cause Web Server crash.
5016494	NSS: Crash in DER_UTCTimeToTime with corrupt certificate.

Issues Resolved in 6.1 SP1

The following table lists the issues resolved in Sun Java System Web Server 6.1 SP1.

TABLE 10 Issues Resolved in Sun Java System Web Server 6.1 SP1

Problem ID	Description
5060906	Authorization dialog appears for an unprotected directory without an index file. Additional information: If a directory does not have an index file such as index.html, index.jsp, or home.html, then while turning on ACL authentication anyone with read and write permission is denied the list access even though this directory is unprotected. Workaround: To revert back to the previous behavior of 6.1, change the default ACL so that anonymous users are allowed list privileges. Make the change as follows: <pre>allow (read, execute, info, list) user = "anyone"</pre>
4642650	Option needed to disable appending of absolute URL in a Servlet or JSP container. Fix details: New property added to sun-web.xml: relativeRedirectAllowed Default value: false Description: If true, allows the web application to send a relative URL to the client using the HttpServletResponse.sendRedirect() API. That is, it suppresses the container from translating a relative URL to a fully qualified URL.
4793938	Enabling Remote File Manipulation from the Server Manager GUI allows any remote user to obtain a listing of any directory in the server's URI space.
4904201	javahome path wrongly set when adding a server with no bundled JDK.
4911580	Adding a new server instance might fail with a Server Error message.

TABLE 10 Issues Resolved in Sun Java System Web Server 6.1 SP1 (Continued)

Problem ID	Description
4928794	Server restarts when trying to create null resource by PUT.
4929913	Search engine does not extract and index FTS information from PDF files. Fix details: This fix applies to all supported platforms except Linux. The Author, Subject, and Keywords meta tags are always indexed. Functionality has been added that now enable arbitrary meta tags to be indexed, including those tags produced when converting the FTS_* attributes from PDF files. Manual configuration of a new setting in server.xml is required, as described below. ■ In the SEARCH section of server.xml, add a PROPERTY with name="indexMetatags". The value should be a comma-delimited list of meta tag names. Note that the Author , Subject, and Keywords meta tags are always indexed, regardless of this setting. ■ To index the meta tags resulting from the conversion of PDFs and other types of documents, this configuration must use the name of the meta tag rather than the name of the field in the particular document type. For example, to index the FTS_Title contents from PDF files, "Title" must be a component of the "indexMetatags" setting: <PROPERTY name="indexMetatags" value="Title"> Note – See issue 4956415 for details about displaying custom meta tag information in search results.
4933935	On Solaris 9 release: reconfig does not work in package-based installs.
4945089	ASN.1 parsing issue in SSL. A problem has been identified in the implementation of the SSL protocols used by the Web Server that may be exploited as a Denial of Service attack. Sun Java System Web Server 6.1 SP1 fixes this problem. If you use the Web Server to host sites that utilize SSL version 3 or TLS, you are strongly encouraged to install this service pack.
4950388	The reconfig command does not work on Windows XP.
4964069	The commit.exe utility crashes on Windows platforms.

Issues Resolved in 6.1

The following table lists the issues resolved in Sun Java System Web Server 6.1.

TABLE 11 Issues Resolved in Sun Java System Web Server 6.1

Problem ID	Description
4869693	On Windows, the Web Server installation overwrites SunONE Directory Server .dll files due to cohabitation issues with Directory Server 5.x.
4540254	Rotating log files shouldn't require server restart on UNIX.
4727146	Logs filling with 'connection reset' entries.
4786735	Installer does not set proper JDK CLASSPATH/LIBPATH when the external JDK is used.
4792721	Incorrect error messages when LDAP server is offline.
4799452	<code>sun.tools.javac.Main</code> has been deprecated. Its exception stops valid JSP files.
4801874	<code>ACL_LDAPSessionAllocate</code> always returns <code>LAS_EVAL_FAIL</code> .
4811418	Digest authentication crashes.
4819405	Memory leak of the <code>slapd</code> process with the <code>digestauth</code> plug-in.
4820513	<code>digestauth</code> plug-in code is not thread safe.
4839875	When using <code>cachefs</code> or <code>nfs</code> as <code>ClassCache</code> and <code>document-root</code> , Sun Java System Web Server does not always pick up the new JSP.
4842190	Web Server crashes when receiving <code>Accept - Language</code> header larger than 15 languages.
4842574	Server crash with malformed request.
4842601	<code>Accept - Language</code> header security issue.
4846832	CRL corrupts database.
4848896	<code>digestauth</code> plug-in crashes for a particular type of request.
4849914	Memory leak in <code>digestauth</code> plug-in for a particular type of request.
4855546	Log analyzer vulnerability.
4858026	JSP: crash in <code>getParameter</code> when posting large amounts of data.
4867887	Basic authentication fails for users with user IDs that have spaces.
4903319	When you create a collection, not all documents will be indexed and added to the collection.

Issues Resolved in 6.1 Documentation

The following table lists the issues resolved in the English language version of Sun Java System Web Server 6.1 SP6 and later documentation.

Note – The following issues exist in the localized version of Sun Java System Web Server 6.1 documentation.

TABLE 12 Issues Resolved in Sun Java System Web Server 6.1 Documentation

Problem ID	Description
6367812	Online help does not document steps to restart the <code>schedulerd</code> .
4957123	<i>Administrator's Guide</i> does not document the Search Query operators.
6493741	Provide steps on "How to Stop the <code>schedulerd</code> from a command line".
6384436	Reverse proxy plug-in is missing some important documents.
6401395	6.1 Passthrough/Fastcgi plug-ins startup messages create confusion.
6170766	Upgrade procedure of Java ES does not use the JES installer.
6418693	Description about <code>netbuf_getbytes()</code> is not available in the 6.1 NSAPI guide.
6472668	Web Server 6.1 Windows installation should use <code>-Xrs JVM</code> option by default.
6503463	Web Server 6.1 release notes has Sun internal URL.
6378473	<i>Release Notes for Sun Java System Web Server 6.1 Add-Ons Reverse Proxy Plugin</i> has an incorrect default value for the <code>validate-server-cert</code> SAF.
6391505	<i>Installation and Migration Guide</i> should document configuration file writability, root security risks, and Solaris <code>net_privaddr</code> privilege.
6359385	<i>Administrator's Configuration File Reference</i> should document the <code>magnus.conf</code> variable <code>MaxKeepAliveConnections</code> value range for 64-bit server.
6358849	<i>Administrator's Configuration File Reference</i> should document the <code>MaxOpenFiles</code> attribute in the <code>nsfc.conf</code> configuration file.
5065188 6173274	<i>Administrator's Guide</i> incorrectly describes a Find menu Passage Search option in the Advanced Search section. This menu option is not available.
6155266	<i>Administrator's Guide</i> describes the configuration log level incorrectly.
6206074	<i>Administrator's Configuration File Reference</i> describes an incorrect default value for the <code>ChildRestartCallback</code> directive.
6170766	<i>Installation and Migration Guide</i> describes an incorrect method of upgrading a new version of Web Server in the <i>Before You Install Sun ONE Web Server</i> section.
6170769	<i>Administrator's Configuration File Reference</i> has incorrect information about the <code>AdminLanguage</code> directive.
6173273	<i>Administrator's Guide</i> has a typographical error under section <i>Choosing MIME Types</i> .

TABLE 12 Issues Resolved in Sun Java System Web Server 6.1 Documentation (Continued)

Problem ID	Description
6173133	<i>NSAPI Programmer's Guide</i> describes an incorrect example of a NSAPI Function Reference.
6173272	<i>Administrator's Guide</i> incorrectly documents the supported version of Java as '1.4.1_03'.
5029460	<i>Administrator's Guide</i> documents an incorrect <code>certmap.conf</code> configuration.
4975161	<i>Administrator's Configuration File Reference</i> does not document the optional parameter 'block-size' for <code>pool-init</code> .
5002190	<i>Administrator's Guide</i> does not contain information about the <code>htpasswd</code> command utility.
5002192	<i>Administrator's Configuration File Reference</i> has incorrect information about the <code>LogLevel</code> attribute.
5038534	<i>Administrator's Configuration File Reference</i> has incorrect default value for the <code>LogFlushInterval</code> directive.
4781137	<i>Administrator's Guide</i> has the following incorrect information: ■ The path where <code>libdigest-plugin.ldif</code> exist is not defined in the guide. Additional Information: <code>libdigest-plugin.ldif</code> is available at <code>server-root/plugins/digest/libdigest-plugin.ldif</code>. ■ Information to configure the Web Server to process digest authentication (set the <code>digestauth</code> property of the database definition in <code>dbswitch.conf</code>) is given without describing the procedure to do it. ■ <code>libdigest-plugin.so</code> is incorrectly mentioned as <code>libdigest-plugin.lib</code>. ■ Description of <code>iplanetReversiblePassword</code> is missing.
4823362	<i>Administrator's Guide</i> needs to be updated with additional information regarding ACL.
5046588	<i>Installation and Migration Guide</i> incorrectly documents the supported version of Sun accelerator hardware.
5052605	<i>NSAPI Programmer's Guide</i> does not clearly specify that <code>content-type</code> needs to be in lower case.
5062560	<i>Installation and Migration Guide</i> does not document the method of disabling the start-on-boot option.
6285234	<i>Administrator's Configuration File Reference</i> incorrectly describes the default value of the <code>StrictHttpHeaders</code> directive as <code>on</code> .
6067318	<i>Administrator's Configuration File Reference</i> has insufficient information about the <code>set-variable</code> error parameter.
6230379	<i>Administrator's Configuration File Reference</i> incorrectly describes a <code>remove-file()</code> SAF.

TABLE 12 Issues Resolved in Sun Java System Web Server 6.1 Documentation (Continued)

Problem ID	Description
6208955	<i>NSAPI Programmer's Guide</i> incorrectly documents the description of SERVER_SOFTWARE as MAGNUS_VERSION_STRING.
6320016	<i>Administrator's Configuration File Reference</i> does not clearly define the default value of listenQ on Windows.
6354681	<i>Administrator's Configuration File Reference</i> needs more information about DNS.

Known Issues

This section lists the more important known issues and limitations at the time of the Sun Java System Web Server 6.1 SP7 release. The issues are listed as follows:

- [General](#)
- [Administration](#)
- [Core](#)
- [Documentation and Online Help](#)
- [Installation](#)
- [Migration](#)
- [Samples](#)
- [Search](#)
- [Security](#)
- [Tools](#)
- [Web Container](#)
- [WebDAV](#)
- [Localization](#)

General

The following table lists General known issues.

TABLE 13 General Known Issues

Problem ID	Description
6198559	JES3: Patch upgrade of Web Server on Linux displays false uninstall notification.

TABLE 13 General Known Issues (Continued)

Problem ID	Description
4988370	Contents do not get updated under a particular situation on HP-UX 11.0 platforms.
6413819	The HP-UX operating system has two cache spaces, Page Cache and Buffer Cache, for accessing files. Normally, when the application performs the mmap function, the file is mapped to Page Cache. However, currently the operating system has no responsibility to synchronize the data between the Page Cache and Buffer Cache if the mmap is performed as PRIVATE option. Even if you copy the file, the operating system refreshes the cached data only in the Buffer Cache. Workaround: Use a text editor to update the contents each time.
6404983	Searching of Users and Groups through LDAP server using Administration Graphical User Interface fails. Workaround: For this feature to work, install Red Hat AS 3.0 update 1–uname -r: 2.4.21-9.ELsmp.

Administration

The following table lists the known issues in Administration.

TABLE 14 Known Issues in Administration

Problem ID	Description
6301761	ACL applet might fail to load with Mozilla 1.4 and Firefox 1.0.6.
6021151	Problem using HttpServerAdmin to create a JNDI resource containing an LDAP domain name containing commas. Workaround: For HttpServerAdmin to escape the ',' in the property, use '\\' as the escape character. Use \' on the Windows platforms. In the property <code>java.naming.provider.url=ldap://localhost:389/ou=loggingQueues,ou=tms,ou=services,ou=abc</code> the ',' are escaped as shown here: <code>-property java.naming.provider.url=ldap://localhost:389/ou=loggingQueues\\,ou=tms\\,ou=services\\,ou=abc</code>
5007892	Distributed Administration: ACL deletion does not clean up obj.conf. Workaround: Comment out NameTrans for https-admserv: <pre>#NameTrans fn="assign-name" name="https-admserv" from="/https-admserv/*"</pre>

TABLE 14 Known Issues in Administration (Continued)

Problem ID	Description
5035129	Unable to manage Directory Server user/group/ou using Web Server 6.1 SP2 Administration on RedHat Linux Advance Server 3.0.
4650456	View Access and View Error does not work properly with multibyte characters.
4652585	When Distributed Administration is enabled, the local Administration user is disabled. Workaround: Create a user with the default Administration user name within the distributed Administration group. The newly created LDAP Administration user must have the same password as the Web Server Administration user.
4725683	The log file date stamp does not take the local time zone into account and shows the incorrect date. Workaround: If the date in the log file filename extension should match the date of the log entries, configure the server to rotate the log files at 23:59.
4761960	Web Server 6.0 SP4: Cannot enable Distributed Administration when using SASL and anonymous bind. Workaround: Do not use anonymous bind to an SSL-enabled directory server.
4841310	Can't get REMOTE_USER variable when authenticated by .htaccess. Workaround: If you enable .htaccess files, the server checks for .htaccess files before serving resources. The server looks for .htaccess files in the same directory as the resource and in that directory's parent directories, up to and including the document root. For example, if the Primary Document Directory is set to /sun/server/docs and a client requests /sun/server/docs/reports/index.html, the server will check for .htaccess files at /sun/server/docs/reports/.htaccess and /sun/server/docs/.htaccess. Note that the server's Additional Document Directories and CGI Directory functionality allows an administrator to define alternate document roots. The existence of alternate document roots affects .htaccess file processing. For example, consider a server with the Primary Document Directory set to /sun/server/docs and a CGI program at /sun/server/docs/cgi-bin/program.cgi. If you enable CGI as a File Type, the server will evaluate the contents of both /sun/server/docs/.htaccess and /sun/server/docs/cgi-bin/.htaccess when a client issues a request for the CGI program. However, if you configure a CGI Directory at /sun/server/docs/cgi-bin, the server will inspect /sun/server/docs/cgi-bin/.htaccess but not /sun/server/docs/.htaccess. This occurs because specifying /sun/server/docs/cgi-bin as a CGI Directory marks it as an alternate document root.
4865295	The End User Administration feature (under Distributed Administration in the Administration interface) is no longer supported.

TABLE 14 Known Issues in Administration (Continued)

Problem ID	Description
4882999	Inconsistent look and feel of the Administration GUI.
4888696	The Add Server page in the Administration GUI disappears in Netscape Navigator 7.0 when insufficient information is provided. Workaround: Provide complete information on the Add Server page before clicking OK. If necessary, reload the page to restore the Add Server GUI, or click another page or another tab and then navigate back to the Add Server page. This problem occurs only in Netscape Navigator 7.0.
4910309	The word 'null' is incorrectly displayed on an alert message. This word displays when editing directory services in the Pick Directory for Virtual Server page in the Virtual Server Manager.
4905808	Superusers cannot access the Administration interface after enabling distributed administration. Workaround: After enabling distributed administration, create a user in LDAP with the same administration user name and password as that of superuser.
4908694	Default link not working for Logging Settings. The default link on the Logging Settings for Virtual Server page does not set the default path, but rather acts as a reset button.
4910197	When editing a JDBC resource, the properties page retains values after they have been deleted.
4911552	.shtml files are parsed even if you configure them to be un-parsed.
No ID	The sun-web.xml file bundled with the Web Server points to the wrong DTD location. Correction: The correct location is http://www.sun.com/software/dtd/webserver/sun-web-app_2_3-1.dtd.
6284698	Web Server is not operational when installed as non-root user. Workaround: Start the Web Server instance from the command line instead of using the Web Administration console.
6078104	JSP applications are not accessible from WS6.1 when the passthrough plug-in is configured. Workaround: Change the line from the service directive of passthrough from <pre>Service type="magnus-internal/passthrough" fn="service-passthrough"servers="http://server:port"</pre> to <pre>Service fn="service-passthrough" servers="http://server:port"</pre>

TABLE 14 Known Issues in Administration (Continued)

Problem ID	Description
4991278	No Administration GUI feature is available to delete JSP ClassCache files.
6316265	The Administration GUI says Click Apply for the changes to take affect but no Apply button exists in the Administration Server.

Core

The following table lists the known issues in Core.

TABLE 15 Known Issues in Core

Problem ID	Description
6363944	webservd child process orphaned when Solaris crypto softtoken (libpkcs11.so) is used in Web Server 6.1SP5 64-bit. Workaround: This problem occurs only when the server is explicitly configured to use the Solaris softtoken. If you have to use <code>fork()</code>, <code>Runtime.exec()</code>, or <code><!-#exec cmd="..." -></code>, do not configure the server to use the Solaris softtoken.
6313832	Existing 32-bit plug-ins cannot be used with the 64-bit release. Attempting to load a 32-bit plug-in using the 64-bit Sun Java System Web Server release will result in an error message such as the following: Sun ONE Web Server 6.1SP5 (64-Bit) B10/28/2005 09:00 failure: CORE3170: Configuration initialization failed: Error running init function load-modules: dlopen of plugin.so failed (ld.so.1: webservd: fatal: plugin.so: wrong ELF class: ELFCLASS32) Workaround: Use the 32-bit release of Sun Java System Web Server or contact the plug-in vendor to obtain a 64-bit release of the affected plug-in.
4939491	On HP-UX: Executing the <code>./stop</code> script gives an error message and kills the process group.

Documentation and Online Help

The following table lists the known issues in Documentation and Online Help.

Note – For a list of known issues in the localized versions of 6.1 documentation, see [“Issues Resolved in 6.1 Documentation” on page 47](#).

TABLE 16 Known Issues in Documentation

Problem ID	Description
6506960	Online Help indicates that the maximum characters for an authentication password is eight characters. Additional Information: The authentication characters for an authentication password can be more than eight characters.
4964908	No documentation available regarding feature upgrades. Additional Information: See “ Installation, Upgrade, and Migration Notes ” on page 19.
5016571	<i>Online Help</i> page under Generic Thread Pools gives invalid information.
5053339	<i>Online Help</i> —Directory Indexing information is missing in the <i>Administrator's Guide</i> and online help.
4928287	All documents do not inform the user the nonexistence of <i>instance/lib</i> directory. Additional Information: This directory is not created by the installer. Users have to create the directory if it does not exist.
6237303	<i>Release Notes for SUN ONE Web Server 6.1</i> does not list all patches that are required for the Solaris SPARC platform. Additional Information: 109326-09 is a required patch for Web Server 6.1 on Solaris release 8.

Installation

The following table lists the known issues in Installation.

TABLE 17 Known Issues in Installation

Problem ID	Description
5020317	JDK only upgrade results in disabling search. The user receives an exception, and the search page is not accessible from the GUI. Workaround: This exception does not happen if Web Server 6.1 SP2 core is installed along with or prior to installing JDK alone. In addition, if Web Server 6.1 SP2 core is installed on top of a JDK-upgraded Web Server 6.1 SP1, the exception does not show up.
4855263	Sun Java System Web Server will not start if it is installed into a directory with spaces in the name, for instance, Program Files. You will not receive an error message about this during installation, but following installation the server will not start. Workaround: Do not install the Web Server into a directory with spaces in the name.

TABLE 17 Known Issues in Installation (Continued)

Problem ID	Description
4869238	On the Windows platform, the Sun Java System Web Server installer does not accept a long name as server-root. Workaround: Specify a path name for the Sun Java System Web Server installation directory that is no longer than 128 characters even though the field allows you to type up to 256 characters.
4901205	On the Solaris platform, Control-B does not work on screens that follow the Fully Qualified Domain Name screen in the installer, starting with the User and Group Name screen. Workaround: If you need to return to previous screens during the installation, quit the installer and start again.
4937915	On the AIX platform, Control-C makes the terminal screen hang during installation. This problem occurs on the screen used to specify the name of the computer on which the Web Server will be installed.
4960048	Some SNMP related files are overwritten when upgrading to Sun Java System Web Server 6.1 SP1. Workaround: Back up the following files before the upgrade: <i>server-root/plugins/snmp/magt/CONFIG</i> <i>server-root/plugins/snmp/sagt/CONFIG</i>

Migration

The following table lists the known issues in Migration.

TABLE 18 Known Issues in Migration

Problem ID	Description
6514480	Cannot enable Java on a migrated 4.1 instance even after opting to enable JAVA at the time of migration and enabling from the GUI after migration. Workaround: Manually add the following entries to the <code>obj.conf</code> file and restart the instance: <pre><Object name="default"> NameTrans fn="ntrans-j2ee" name="j2ee" NameTrans PathCheck ObjectType Service Error fn="error-j2ee" AddLog </Object> <Object </Object> <Object name="j2ee"> Service fn="service-j2ee" method="*" </Object></pre>
4790457	Cannot change the document root of a migrated server from 4.1. Workaround: Edit the migrated instance's <code>obj.conf</code> and <code>server.xml</code> manually. These files are located under <code>codeSERVER_ROOT/HTTPS-INSTANCE/config</code> directory. In <code>obj.conf</code> change the line <pre>NameTrans fn=document-root root="<existing_doc_root>"</pre> to <pre>NameTrans fn=document-root root="\$docroot"</pre> In <code>server.xml</code>, under the relevant <code>VSCLASS</code> change the line <pre><PROPERTY name="docroot" value="existing-doc-root"></pre> to <pre><PROPERTY name="docroot" value="new-doc-root"></pre>

TABLE 18 Known Issues in Migration (Continued)

Problem ID	Description
6213097	ktsearch.jar is not migrated correctly on Sun Java Enterprise System 3 (JES3). Workaround: Manually edit the server.xml file of the migrated instance to point to the correct path. For Linux: /opt/sun/private/share/lib/ktsearch.jar For Solaris SPARC: /usr/share/lib/ktsearch.jar
5007081	Web application file status ignored during migration from 6.0 to 6.1 Web application status defined at the file level in the server.xml file is not migrated. If a user has switched off the status of the web applications file to suppress them, upon migration these web applications are exposed. Workaround: Edit the server.xml file of the migrated instance and turn off status for each web application.
4988156	Installation of SP_2 patch on existing install (update) If you want to upgrade the Sun Java System Web Server 6.1 that is installed as a part of Sun Java Enterprise System (JES), to the latest Service Pack, download and apply the relevant patches. For more details, refer to the <i>JES 3 Migration and Upgrade Guide</i>.

Samples

The following table lists the known issues in the sample applications. Note that none of these issues prevent the sample applications from functioning correctly.

TABLE 19 Known Issues in Samples

Problem ID	Description
5014039	Simple JSP files throw an exception due to the distributable tag in web.xml. Workaround: 1. Remove the tag distributable from the web.xml file in the /simple/src directory. 2. Redeploy the web application.
No ID	rmi-iiop sample is missing a step. In the “Deploying the Sample Application” section, after executing the command ant deploy (step 2), restart the Web Server instance. Note – ant is a Java build tool and must be downloaded from Apache at http://ant.apache.org. Also see the information provided in <i>install-root/plugins/java/samples/docs/ant.html</i>.

TABLE 19 Known Issues in Samples (Continued)

Problem ID	Description
No ID	jdbcrealm sample has the wrong Oracle driver name. In the “Compiling and Assembling the Sample Application” section, step 2b, change the following line from: <pre><PROPERTY name="dbdrivername" value="oracle.jdbc.pool.OracleDataSource"></pre> to <pre><PROPERTY name="dbdrivername" value="oracle.jdbc.driver.OracleDriver"></pre>

Search

The following table lists the known issues in Search.

TABLE 20 Known Issues in Search

Problem ID	Description
4977315	AIX-Search Engine of 6.1 should have the ability to change the sort order.
5038203	Workaround: To change the default order, add '+' as a first character of the sort string. Because '+' in URI is escaped, use '%2B' to change the order. In this case, change the URL to <code>http://host/search/index.jsp?si=1&ns;=10&c;=test&qt;=*&sb;=%2Bwriter</code>.
4684124	If the document root of an already indexed collection is changed, the document returned by the search throws a <i>Document Not Found</i> error. Workaround: Rebuild the entire collection by performing one of the following actions: ■ Remove all documents and add them back again. ■ Delete the collection and create it again.
4911725	Search does not work when you search for a word using a different case pattern. Search results are not displayed on the the search page if you search using a word of mixed case. For example, typing sAmPlE instead of sample or SAMPLE.
4963236	On HP-UX: PDF files are not converted to HTML for inclusion in search collections. This problem occurs if the following patch is installed on the HP-UX 11i system: PHSS_28871 – ld/linker cumulative patch

Security

The following table lists the known issues in Security.

TABLE 21 Known Issues in Security

Problem ID	Description
4671445	Sun Java System Web Server cannot connect to an LDAP server over SSL if LDAP client authentication is required. If Sun Java System Web Server contacts an LDAP server that requires client authentication (in this case, the Web Server is the client), the Web Server's certificate cannot be sent and access will fail.
4863599	Cannot use the same group name under different organizational units. If the same group name is used and you try to restrict access with the group name, Sun Java System Web Server returns an error when clients try to access the site. Workaround: Use a different group name for each organizational unit.
4963468	In some circumstances, the "list" right has no effect on directory listing. According to Chapter 9 of the Sun Java System Web Server 6.1 <i>Administrator's Guide</i>, the "list" right is required to obtain directory listings from directories that do not contain an index file. However, in certain circumstances you can obtain a directory listing even if the applicable ACLs deny the list right. If you need to restrict directory indexing, disable indexing, as discussed in Chapter 16 of the Sun Java System Web Server 6.1 <i>Administrator's Guide</i>, instead of or in addition to denying the list right.
6310956 6298215	When LDAP drops the connection because of inactivity, for example, timeout set on the LDAP, Web Server is unable to re-initialize the connection to LDAP. This problem only occurs when Web Server is installed as part of the JES3/JES4 install. The problem does not exist in stand-alone (file-based) installation. Workaround: 1. Copy the library <code>libldap50.so</code> from the file-based installation of Web Server and paste it to the following location in your current setup: <code>/opt/SUNWwbsvr/bin/https/lib</code> 2. Restart the Web Server.

Tools

The following table lists the known issues in Tools.

TABLE 22 Known Issues in Tools

Problem ID	Description
4905696	On Windows, deployment fails if the class file depth along with the file name exceeds 255 characters.
4912181	On Linux, a null pointer exception is thrown when deploying an application using the <code>wdeploy</code> command-line utility. This problem happens at the end of deployment, and only if it succeeds. Workaround: The error occurs when <code>wdeploy</code> reads the <code>stdout/stderr</code> after executing <code>reconfigure</code> script following deployment. Check whether the server did reconfigure by looking in the errors log for the <code>reconfigure</code> message. If the message is not there, then run the <code>reconfigure</code> script manually.

Web Container

The following table lists the known issues in the Web Container.

TABLE 23 Known Issues in the Web Container

Problem ID	Description
6387189	Java logging issues in a deployed module.
4903162	Issue on Windows related to the case of <code>url-pattern</code>s. As per the Servlet specification, the <code>url-pattern</code> elements in <code>web.xml</code> are case sensitive. This condition might lead to unexpected behavior for Windows users, for example, if a client makes a request for <code>index.HTML</code> expecting this string to match <code>index.html</code>.

WebDAV

The following table lists the known issues in WebDAV.

TABLE 24 Known Issues in WebDAV

Problem ID	Description
4892017	Unable to rename or move a resource if the parent directory is locked exclusively. This problem occurs when DAV clients send the incorrect <code>If :</code> header. For example, if you connect to the Web Server using Macromedia Dreamweaver or DAV Explorer, create a collection, and then lock the collection with depth infinity, which locks all of its resources as well, you will not be able to rename or move a resource. Adobe GoLive sends the correct <code>If :</code> header only if the lock's owner href matches <code>auth_user</code>. In all other cases with GoLive, the wrong header will also be sent.
4902651	Lock Management screen in the Virtual Server Manager does not display the lock information properly for hard links. Symbolic links, hard and soft, are not supported by the WebDAV implementation in Sun Java System Web Server.

Localization

The following table lists the known issues in the localization.

TABLE 25 Known Issues in the Localization

Problem ID	Description
4937055	The Administration online help of Web Server is not localized. The Administration online help has been localized only up to the first level. The initial help pages are localized but clicking the links on a page, for example, Removing a Server displays help content in the English language.
6441984	The Administration online help is displayed in English even if the locale is set to zh-cn. For zh-cn locale, the Administration GUI online help is in English. If the browser locale is zh-cn, then the complete Administration GUI online help is displayed in the English language. Workaround: Set the browser's prefer locale to zh to view the online help in the Chinese language.

How to Report Problems and Provide Feedback

If you have problems with Sun Java System Web Server 6.1 SP7, contact Sun customer support using one of the following mechanisms:

- Sun Software Support services online at <http://www.sun.com/service/sunone/software>
- The telephone dispatch number associated with your maintenance contract

So that Support can best assist you in resolving problems, please have the following information available when you contact Support:

- Description of the problem, including the situation where the problem occurs and its impact on your operation
- Machine type, operating system version, and product version, including any patches and other software that might be affecting the problem
- Detailed steps on the methods you have used to reproduce the problem
- Any error logs or core dumps

Sun Welcomes Your Comments

Sun is interested in improving its documentation and welcomes your comments and suggestions. Send your comments to Sun using the “Send comments” link at <http://docs.sun.com/>.

Please include identifying information with your comments, such as the book’s part number and title.

Additional Sun Resources

Useful Sun Java Systems information can be found at the following locations:

- Documentation for Sun Java System Web Server 6.1 and Service Packs
- Sun Software Products and Service at <http://www.sun.com/software>
- Sun Developer Information at <http://developers.sun.com/>
- Sun Developer Support Services at <http://developers.sun.com/services/index.jsp>
- Software Support Services at <http://www.sun.com/service/support/software/>
- Sun Support and Training Services at <http://www.sun.com/training>
- Sun Consulting and Professional Services at <http://www.sun.com/service/sunjavasystem/sjsservicessuite.html>

