



Sun Java System Web Server 6.1 SP11 Release Notes



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Sun Java System Web Server Release Notes

Sun Java™ System Web Server 6.1 SP11 (hereafter referred to as Web Server 6.1 SP11) 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 SP11. 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/app/docs/prod/sjs.websrv61#hic>.

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 1.5 JDK Support
- J2SE Platform 1.6 JDK Support
- WebDAV Support
- NSAPI Filters Support
- HTTP Compression Support
- Disabling HTTP PUT and DELETE
- 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>
- JavaServer Pages at <http://java.sun.com/products/jsp/index.html>

For information about developing Servlets and JavaServer Pages, see *Sun Java System Web Server 6.1 SP11 Programmer's Guide to Web Applications*.

J2SE Platform 1.5 JDK Support

The Java 2 Platform Standard Edition (J2SE™) 1.5 is packaged with Sun Java System Web Server 6.1 SP11. The J2SE 1.4 has reached its End of Service Life (EOSL) and is hence deprecated. Therefore, when you upgrade or install your Web Server 6.1 SP11, the Java Development Kit JDK™ gets upgraded or installed automatically for the Solaris, Linux, and Windows platforms. For the HP-UX and AIX platforms, download the 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.

The web server has been certified with the following JDK versions:

- Solaris (SPARC, x86, and AMD64): 1.5.0_16
- Linux: 1.5.0_16
- Windows: 1.5.0_16
- HP-UX: 1.5.0.12-21_mar_2008_11_52
- AIX: 1.5.0 pap32dev-20080315 (SR7)

J2SE Platform 1.6 JDK Support

Sun Java System Web Server 6.1 supports Java 2 Platform, Standard Edition (J2SE) 1.6, and has been certified with the following JDK versions:

- Solaris (SPARC, x86, and AMD64): 1.6.0_07
- Linux: 1.6.0_07
- Windows: 1.6.0_07
- HP-UX: 1.6.0.01-jinteg_06_jun_2008_13_24-b00
- AIX: 1.6.0 pap3260sr1-20080416_01(SR1)

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 SP11 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 SP11 Administrator's Guide](#).

Disabling HTTP PUT and DELETE

This section discusses on how to disable the PUT and DELETE options.

▼ To Disable HTTP PUT and DELETE

- 1 Access the Administration Console.
- 2 Select a server from the list of servers and click the Manage button.
- 3 Click the Restrict Access link under the Preferences tab.
- 4 Select the Edit option from the drop-down list and click the OK button.
- 5 Select The entire server option from the method A table and click the Edit Access Control button.

- 6 **Click the access rights (r-x-i) link under the Rights column.**
Access Rights table appears at the bottom of the screen.
- 7 **Deselect the WRITE and DELETE options.**
- 8 **Click the Update button.**
- 9 **Click the Submit button.**
- 10 **Click the Apply link present at the top right of the screen and click the Apply Changes button to make the changes permanent.**
- 11 **Restart the server for changes to take effect.**

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 SP11 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 SP11 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 SP11 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 SP11 instance as default, and follow the steps described in the tutorial.

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

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 77.

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 SP11 supports the Active Server Pages (ASP) specification through Sun Java System Active Server Pages version 4.0.1 (formerly Sun ChiliSoft ASP), version 4.0.2, and version 4.0.3. 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 4.0.2 and 4.0.3 on the following platforms:

- Solaris™ (SPARC®) versions 8, 9, and 10
- Solaris (x86) 9, 10
- Windows 2000 Professional Edition, Server, Advanced Server, XP and 2003 Enterprise Edition
- AIX 5.2, 5.3
- HP-UX 11.11
- RedHat Enterprise Linux 3.0, 4.0

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 3.11.9.0 (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 SP11 also includes NSPR 4.7.

JES shared component patches and NSS patches should be installed first, before installing the web server patch.

While upgrading JES version of web server, for example, from 6.1 SP5 to SP11, installing only SP11 patch of web server is sufficient, as web server patches are cumulative.

If you are upgrading from a previous package-based version of Java Enterprise System (Java ES) to Sun Java System Web Server 6.1 SP11, install the following NSS patches:

- Solaris 8 SPARC: 119209-17
<http://sunsolve.sun.com/search/document.do?assetkey=1-21-119209-17-1> or higher
- Solaris 9 SPARC: 119211-17
<http://sunsolve.sun.com/search/document.do?assetkey=1-21-119211-17-1> or higher
- Solaris 9 x86: 119212-17
<http://sunsolve.sun.com/search/document.do?assetkey=1-21-119212-17-1> or higher
- Solaris 10 SPARC: 119213-17
<http://sunsolve.sun.com/search/document.do?assetkey=1-21-119213-17-1> or higher
- Solaris 10 x86: 119214-17
<http://sunsolve.sun.com/search/document.do?assetkey=1-21-119214-17-1> or higher
- Linux: 121656-17
<http://sunsolve.sun.com/search/document.do?assetkey=1-21-121656-17-1> or higher
- HP-UX pa-risc: 124379-08
<http://sunsolve.sun.com/search/document.do?assetkey=1-21-124379-08-1> or higher
- Windows: 125923-06
<http://sunsolve.sun.com/search/document.do?assetkey=1-21-125923-06-1> or higher

Note – NSS patch 125358-xx for Solaris Sparc 8/9/10 should not be applied in this case as, this patch is not applicable for Java Enterprise System (Java ES) which bundles Sun Java System Web Server 6.1 Service Packs.

Enhanced Hardware Accelerator Encryption Support

Sun Java System Web Server 6.1 provides hardware accelerator support for Sun™ Crypto Accelerator 500, 1000, 4000 and 6000 boards, which enhance the performance of SSL on web server.

Note – Initialize the Sun Crypto Accelerator card when using with web server. For more information about Sun Crypto Accelerator, see Sun Crypto Accelerator 6000 Board Version 1.1 User's Guide at http://docs.sun.com/source/820-4144-11/1_overview.html.

64-bit Support

To complement the existing support to 32-bit Solaris SPARC, Sun Java System Web Server 6.1 SP11 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 SP11 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 6.1SP11
64-bit	Sun ONE Web Server 6.1SP11 (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 Sun Java System Web Server 6.1x, you can take advantage of the existing localization features by installing Sun Java System Web Server 6.1 SP11 over the existing server. Sun Java System Web Server 6.1 SP11 is available in Japanese, Simplified and Traditional Chinese, French, Spanish, German, and Korean.

Supported Platforms

Sun Java System Web Server 6.1 SP11 can be installed on the Solaris, HP-UX, AIX, Linux, and Windows platforms. For more information about installation requirements, see “[Required Patches](#)” on page 20 in these release notes and *Sun Java System Web Server 6.1 SP11 Installation and Migration Guide*. The following table summarizes the supported platforms.

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

TABLE 1 Sun Java System Web Server 6.1 SP11 Supported Platforms

Vendor	Architecture	Operating System	Minimum Required Memory	Recommended Memory	Recommended Disk Space
IBM	PowerPC	AIX * 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 Professional Windows 2000 Server Windows 2000 Advanced Server (SP4 or above) Windows XP Professional (SP2 or above) Windows Server 2003 Enterprise Edition (32-bit) R2 (SP1 or above)	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 SP11 Supported Platforms (Continued)

Vendor	Architecture	Operating System	Minimum Required Memory	Recommended Memory	Recommended Disk Space
Linux	x86	Red Hat Linux Advanced Server 2.1 <ul style="list-style-type: none"> ■ Linux kernel 2.4.9-e.3smp ■ glibc-2.2.4-26 ■ ncurses-4-5.0-5 You may also create a symbolic link from libncurses5.so to libncurses4.so, although we recommend that you install ncurses4-5.0-5.i386.rpm. Red Hat Enterprise Linux 3.0 update 1 <ul style="list-style-type: none"> ■ 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 dropped. It was deprecated since Sun Java System Web Server 6.1 SP5.

** As of iPlanet Sun Java System 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 SP11, 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 SP11.

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)
- JAVA00B 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 SP11.

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

AIX 5.3 Technology Level 6 SP5

When you upgrade from AIX version 5.3 to AIX version 5.3 Technology Level 6 SP5, apply the following patch so that the control returns to the command-line prompt when you start the administration server/instance server.

- `bos.mp/bos.mp64 at 5.3.0.66`

AIX 5.3 Technology Level 7 SP2

When you upgrade from AIX version 5.3 to AIX version 5.3 Technology Level 7 SP2, apply the following patch so that the control returns to the command-line prompt when you start the administration server/instance server.

- `bos.mp/bos.mp64` at 5.3.7.2

Supported Browsers

The following browsers are supported with Sun Java System Web Server 6.1 Administration Graphical User Interface (GUI):

Mozilla 1.7 or later
Firefox 1.0.4 or 1.5 or later
NetscapeNavigator™ 7.0 or later
Microsoft Internet Explorer 6 and 7

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.

Sun Java System Web Server 6.1 SP11 packages DST compatible JDK 1.5.0_16 on the Solaris, Windows, and Linux Platforms. Sun Java System Web Server 6.1 SP11, 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 Sun Java System Web Server 6.1 SP11 installation. JDK versions for the supported platforms are as follows:

Solaris (SPARC, x86, and AMD64): 1.5.0_16

Windows: 1.5.0_16

Linux: 1.5.0_16

HP-UX: 1.5.0.12- _21_mar_2008_11_52

AIX: 1.5.0 pap32dev-20080315 (SR7)

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 Sun Java System 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.
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 SP11 Installation and Migration Guide](#). For known issues in this release of Sun Java System Web Server, see “Known Issues” on page 60.

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 SP11 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 SP11 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 SP11, 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 SP11 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 SP11.

For detailed migration information, see *Sun Java System Web Server 6.1 SP11 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

The Sun Java System Web Server 6.1 SP11 manuals are available as online files in PDF and HTML formats at: <http://docs.sun.com/app/docs/coll/1308.8>

The following table lists the tasks and concepts described in the Sun Java System Web Server manuals.

TABLE 3 Sun Java System Web Server Documentation Roadmap

For Information About	See the Following
Late-breaking information about the software and documentation	Sun Java System Web Server 6.1 SP11 Release Notes
Information about Sun Java System Web Server 6.1 FastCGI plug-in, including information about server application functions (SAFs), installation, configuration, technical notes, and pointers to additional resources.	Sun Java System Web Server 6.1 SP11 FastCGI Plug-in Release Notes
Information about Sun Java System Web Server 6.1 Reverse Proxy plug-in, including information about server application functions (SAFs), installation, configuration, technical notes, and pointers to additional resources.	Sun Java System Web Server 6.1 SP11 Reverse Proxy Plug-in Release Notes
Getting started with Sun Java System Web Server, including hands-on exercises that introduce server basics and features (recommended for first-time users)	Sun Java System Web Server 6.1 SP11 Getting Started Guide
Performing installation and migration tasks: <ul style="list-style-type: none"> <li data-bbox="354 817 811 904">■ Installing Sun Java System Web Server and its various components, supported platforms, and environments <li data-bbox="354 921 836 979">■ Migrating from Sun ONE Web Server 4.1 or 6.0 to Sun Java System Web Server 6.1 	Sun Java System Web Server 6.1 SP11 Installation and Migration Guide Note: If you have the Sun Java Enterprise System 1 installed on your system and you want to upgrade the Sun Java System Web Server 6.1 that is part of Sun Java Enterprise System 1 to Sun Java System Web Server 6.1 SP11, you must use the Java Enterprise System (JES) installer to perform the upgrade. Do not use the separate component installer included with Sun Java System Web Server 6.1 SP11.

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

For Information About	See the Following
Performing the following administration tasks: <ul style="list-style-type: none"> ■ 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, Standard Edition (J2SE 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 	Sun Java System Web Server 6.1 SP11 Administrator's Guide
Using programming technologies and APIs to do the following: <ul style="list-style-type: none"> ■ Extend and modify Sun Java System Web Server ■ Dynamically generate content in response to client requests ■ Modify the content of the server 	Sun Java System Web Server 6.1 SP11 Programmer's Guide
Creating custom Netscape Server Application Programmer's Interface (NSAPI) plugins	Sun Java System Web Server 6.1 SP11 NSAPI Programmer's Guide
Implementing servlets and JavaServer Pages™ (JSP) technology in Sun Java System Web Server	Sun Java System Web Server 6.1 SP11 Programmer's Guide to Web Applications
Editing configuration files	Sun Java System Web Server 6.1 SP11 Administrator's Configuration File Reference
Tuning Sun Java System Web Server to optimize performance	Sun Java System Web Server 6.1 SP11 Performance Tuning, Sizing, and Scaling Guide

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 SP11](#)
- [Issues Resolved in 6.1 SP10](#)
- [Issues Resolved in 6.1 SP9](#)
- [Issues Resolved in 6.1 SP8](#)
- [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 SP11

The following table lists the issues resolved in Sun Java System Web Server 6.1 SP11.

TABLE 4 Issues Resolved in Sun Java System Web Server 6.1 SP11

Problem ID	Description
6748621	Admin server's GUI index cgi file crashes, when an incorrect or nonexistent dtd file is referenced in the conf_bk/server.xml file.
4917844	Admin server should allow selection of hashing algorithm while signing CSR.
6795558	Sun Java System Web Server 6.1 fails to start with a particular configuration.
6754095	Reverse Proxy Plugin runs querystring Javascript POPUP when 502 Gateway error occurs, leading to a potential XSS vulnerability.

TABLE 4 Issues Resolved in Sun Java System Web Server 6.1 SP11 (Continued)

Problem ID	Description
6571031	Reverse Proxy Plugin should abort processing after the client <code>write()</code> fails with EPIPE.
6659522	Search functionality returns unexpected results if the search string contains a hyphen.
6633181	Java Exception is observed in web error logs as <code>SimpleDateFormat</code> is not synchronized properly in web code.
6707244	A 'race condition' occurs in the JVM while deploying a web application that contains a logger.
6767285	<code>reuseSessionID</code> does not work with <code>IWSSessionManager</code> , but works with <code>StandardManager</code> .
6815821	Server throws the following error during startup. <code>javax.naming.NamingException: WEB3886: Context is read only</code>
6781962	The Sun Java System Web Server 6.1 favicon appears distorted on Internet Explorer 7.

Issues Resolved in 6.1 SP10

The following table lists the issues resolved in Sun Java System Web Server 6.1 SP10.

TABLE 5 Issues Resolved in Sun Java System Web Server 6.1 SP10

Problem ID	Description
6608135	Search fails with an error, when html document has a title containing characters like A & B.
6684388	At present, Sun Java System Web Server 6.1 bundles JDK 1.4.2 on Solaris, Windows, and Linux platforms. Due to End of Licence (EOL) of JDK 1.4.2, the bundled JDK has to be upgraded to the latest JDK 1.5.x.
6705396	Admin security program will not work after you apply the latest patch 116648-21 for Sun Java System Web Server 6.1SP9, if you do not apply NSS patch 119209-17 first.
6699747	Searched string is not highlighted in the search result page, if indexed document does not have a title.
6715380	Integrate the latest NSS/NSPR version into Sun Java System Web Server 6.1 SP10.
6673647	The scheduler based cron log rotation of Sun Java System Web Server 6.1 stops on Saturday night.
6714929	SNMP is broken with default <code>tcp_hiwat</code> setting on Solaris 10.
6702639	When you disable <code>.htaccess</code> in one virtual class, the other virtual class with <code>.htaccess</code> will also fail.

TABLE 5 Issues Resolved in Sun Java System Web Server 6.1 SP10 (Continued)

Problem ID	Description
6679398	When a browser requests gzip compressed result, and when the response is sent through servlet-cache-filter, the response header does not indicate that the data was compressed (although the data was compressed), causing browsers to fail.
6537458	ACL evaluation when using Client tags is different depending on the order of requests.
6671965	The filter 'http-compression' used to compress outgoing content lacks documentation in Sun Java System Web Server 6.1, Administrator's Configuration File Reference Guide.
6606392	filebuf_open_nostat () behaves different for Unix and Windows. On Windows, filebuf_open_nostat () is broken, if file size is zero, while it works on Unix.
6729600	Upgrading to Sun Java System Web Server 6.1 SP10 fails to update searchadmin script for nutch filter related details.

Issues Resolved in 6.1 SP9

The following table lists the issues resolved in Sun Java System Web Server 6.1 SP9.

TABLE 6 Issues Resolved in Sun Java System Web Server 6.1 SP9

Problem ID	Description
6295325	<p>The Web server should implement a timeout parameter for it's LDAP connections pool.</p> <p>When using LDAP Authentication, the web server does not respond, if the LDAP server is unresponsive when performing ldap session bind and ldap search. Setting the timeout value in seconds in server_root/userdb/dbswitch.conf file will stop the web server being unresponsive and also stops waiting for the LDAP server. By default there is no timeout.</p> <p>Sample dbswitch.conf:</p> <pre>default:binddn cn=Directory Manager default:encoded bindpw YWRtaW5hZG1pbG== default:timeout 60</pre>
6370259	FastCGI does not shutdown properly.
6442778	The setContentLength(0) in a servlet/JSP does not work when value is greater than 0.
6471213	Improper error messages are displayed at time out.
6504581	Memory leak in LDAP Session due to ldap_result().
6509590	Log level does not display the appropriate message.
6510001	The session-timeout value in web.xml is not getting precedence over sun-web.xml's timeout value.

TABLE 6 Issues Resolved in Sun Java System Web Server 6.1 SP9 (Continued)

Problem ID	Description
6540788	Unable to install SSL server certificate with 99 years of validity.
6540817	Sun Java System Web Server 6.1 is not supported for Windows 2003 SP2 and R2,
6542731	Unable to run Sun Java System Web Server 6.1 scheduler in Java ES 4.
6553963	A particular PDF files are not recognized by the search engine.
6563615	Web server uses anonymous bind to a Secure LDAP Server when setting up distributed Admin.
6579852	Web server installation contains optimized and debug binaries of JDK.
6581407	The Restricting Access to a File Type feature does not change the appropriate obj.conf file.
6590893	Web server stand alone bits should recognize if it is being used for an upgrade from a Java ES installed web server and should provide a warning message to the user.
6591471	Server shutdown message is missing in error log file when Java is disabled globally.
6592886	Negative number is displayed in QueueSize of JDBC pool monitor.
6598092	Forwarding through RequestDispatcher fails for the first time when using the invoker servlet.
6603070	Incorrect handling of cookie value with single or double quote string.
6603088	Crash in LDAP search .
6609457	Post install script of web server does not handle the ABE case properly.
6620677	The start script does not calculate the right value for libmtdalloc to load in Solaris 9
6628376	The scheduler.pid file should be removed when the scheduler is stopped.
6628914	Removal of Sun Studio 10 from the /usr/dist/share directory causes build failure on Solaris Sparc 8,9 and 10.
6630037	The Cron log rotation creates invalid log archives with an instance name and sub string of another instance name.
6638185	Cross-site scripting vulnerability in search.
6643558	Need to provide the correct description and example for the client-ip tag.
6647151	Cross-site scripting vulnerability in advance search.
6619655	Reverse Proxy Plug-in documentation should state that Application Server is supported.
6514004	Steps to disable HTTP PUT and DELETE is not documented.

TABLE 6 Issues Resolved in Sun Java System Web Server 6.1 SP9 (Continued)

Problem ID	Description
6582644	Description on to use the new timeout parameter for LDAP Authentication should be put into the release notes.
6663921	Web server start script does not return the prompt mode after starting the server on AIX. For more information, see “AIX 5.3 Technology Level 6 SP5” on page 21 and “AIX 5.3 Technology Level 7 SP2” on page 22.
6667638	Provide correct JDK version in the installation guide, which is bundled with the product.
6435723	High CPU usage in Reverse Proxy Plugin - DaemonChannel::unchunk()

Issues Resolved in 6.1 SP8

The following table lists the issues resolved in Sun Java System Web Server 6.1 SP8.

TABLE 7 Issues Resolved in Sun Java System Web Server 6.1 SP8

Problem ID	Description
4737204	The <code>wdeploy delete</code> command follows symbolic links and deletes directories and its contents pointed by the symbolic link.
6152655	form-based authentication in a web application causes users to be logged out unexpectedly although the session should still be active.
6235473	Need the ability to change the permissions of a directory, which is created using WebDAV.
6319312	Fastcgistub dumps core when an instance is stopped after sending request for FastCGI Authorizer application.
6343584	Web server hangs with threads in a deadlock condition waiting for a lock owned by a NSS thread.
6379347	If Access Manager is deployed on the web server, all versions of Sun Java System Web Server 6.1 crash on load.
6497690	Need an option to have full URL or relative URL/URI in web server search web application.
6508015	<code>getParameterNames()</code> does not return non-parameterized names in query string.
6509623	(Windows XP and Windows 2003): Unable to open the Sun Java System Web Server 6.1 SP7 release notes by clicking the Start->Programs->Sun ONE Web Server->Release Notes link.
6513358	Web server Reverse Proxy Plug-in is not handling chunked data.
6519021	The <code>obj.conf</code> file of a new virtual server class generated by the Admin Server contain errors.

TABLE 7 Issues Resolved in Sun Java System Web Server 6.1 SP8 (Continued)

Problem ID	Description
6519551	Issue in the JDBC Connection Pool feature.
6519839	Vulnerability with web server redirect functionality.
6520528	<code>response.sendRedirect()</code> error if the redirect URL does not begin with a slash (/).
6526460	LDAP connection failure errors with Sun Java System Web Server 6.1 SP7.
6531111	<code>htaccess AuthGroupFile</code> should support empty files as equivalent to not specifying the directive.
6532218	Sun Java System Web Server 6.1 SP7 crashes in <code>libxerces-c.so</code> on T2000 systems.
6534216	Update README, version string and license file for Sun Java System Web Server 6.1 SP8.
6540248	Sun Java System Web Server 6.1 SP8 to be integrated with NSS 3.11.6 and NSPR 4.6.6.
6546233	RPM specification and <code>pkginfo</code> file to be updated with the SP8 release and version number.
6566204	UTF-7 cross site scripting vulnerability.
6567841	Form authentication bypass and JSP source code disclosure vulnerability.
6574379	Sun Java System Web Server 6.1 browser support should include Internet Explorer 7.

Issues Resolved in 6.1 SP7

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

TABLE 8 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 <code>server.xml</code> 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, <code>ktsearch.jar</code> does not get migrated correctly on JES3.
6276594	A PUT request sent with the <code>Transfer-encoding: chunked</code> header along with a request body fails.
6292582	SNMP MIB's "Fraction of process memory in system memory" which is part of <code>iws.mib</code> , gives the wrong results when queried by the SNMP Manager.

TABLE 8 Issues Resolved in Sun Java System Web Server 6.1 SP7 (Continued)

Problem ID	Description
6315783	In the French locale, Online Help links on the Search page lead to English pages.
6348395	When <code>IWSSessionManager</code> is used, invalidating a session does not call the <code>sessionDestroyed()</code> of <code>HttpSessionListener</code> .
6350502	Pragma and cache-control headers cause interoperability problems.
6358858	<code>zlib</code> library throws an internal error.
6367672	The restart script fails when <code>MaxProcs</code> is greater than 1(one).
6376035	Unable to configure the Sun Java System Web Server to successfully run a JSP file that contains a <code>jstl</code> tag.
6376082	Need to support JNDI simple names for lookup in web applications for compatibility with the Application Server product.
6380777	Cannot add <code>pl</code> file suffix for <code>magnus-internal/cgi</code> through the Administration GUI.
6381747	If a session attribute implements <code>HttpSessionBindingListener</code> , 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 <code>Monitor Web Server Statistics</code> 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 <code>/ns-icons</code> directory are not displayed properly in Internet Explorer.
6388766	On Windows: treatment of <code>"\"</code> , 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.
6392644	Incorrect URL in Sun Java System Web Server 6.0 SP10 and Sun Java System 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 <code>.htaccess</code> with the restricted group option.
6426382	If the value of <code>net_write SAF</code> is three times more that the fragment size of the HTTP compression, a <code>net_flush</code> call does not flush all the data.
6428199	Search filter fails if the <code>userid</code> of a member belonging to a user group contains <code>","</code> (comma).

TABLE 8 Issues Resolved in Sun Java System Web Server 6.1 SP7 (Continued)

Problem ID	Description
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 Sun Java System Web Server 6.1 sample applications.
6433752	The <code>ssl-check</code> 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 <code>ObjectType fn="force-type"</code> directive is removed from the <code>obj.conf</code> file, the server may crash when a request is made for multiple byte ranges.
6441402	LDAP server configuration fails with Sun Java System 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 <code>websrvd</code> process under certain conditions.
6451182	Sun Java System Web Server 6.1SP6 experiences high CPU in <code>parseParameters()</code> .
6455812	Thread safety problems in the handling of some <code>magnus.conf</code> directives cause certain configurations to crash on startup.
6458771	<code>watchdog</code> can crash when <code>./start</code> is executed before <code>./stop</code> completes.
6465691	Display error with HTML page in <code><jsp:include></code> 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: Sun Java System Web Server (stand-alone) modifies the NSPR/NSS bits thereby breaking the FIPS mode.
6477981	FIPS140 mode is broken in Sun Java System Web Server (stand-alone) due to missing <code>.chk</code> files.
6478972	The JDK shipped with Sun Java System 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.

TABLE 8 Issues Resolved in Sun Java System Web Server 6.1 SP7 (Continued)

Problem ID	Description
6488468	On HP-UX: Remove the packaged JDK for Sun Java System Web Server.
6489275	Sun Java System 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 Sun Java System Web Server.
6507264	When the default log level is set to info, finer log messages are still being printed at server startup.
6508092	Server startup fails in Sun Java System Web Server 6.1 SP7 on the HP-UX platform when installed through express silent mode.
6510957	The pkginfo 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 9 Issues Resolved in Sun Java System Web Server 6.1 SP6

Problem ID	Description
5027774	WW_umask in the configuration is NULL in Solaris.

TABLE 9 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	<p>Additional Information: To use a document root in a shared network resource, a UNC path has to be used, for example, <i>//machine-name/shared-folder-name</i>. 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.</p> <p>For using a shared directory on UNIX, do the following:</p> <ol style="list-style-type: none"> 1. Install SFU (Windows Services for UNIX) on the Windows machine where Sun Java System 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. <p>Note – While running web server, User Name Mapping Service (which is part of SFU) has to run.</p> <p>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.</p> <p>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.</p>
6384651	For HP-UX: Sun Java System 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	Sun Java System Web Server uses incorrect logic when processing the <code>if-unmodified-since</code> header.
6318003	Sun Java System 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 9 Issues Resolved in Sun Java System Web Server 6.1 SP6 (Continued)

Problem ID	Description
6316881	<p>Multibyte characters in headers cannot be retrieved by <code>req.getHeader()</code>.</p> <p>Workaround:</p> <p>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:</p> <ol style="list-style-type: none"> 1. 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 data-bbox="565 517 1193 734"><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> <ol style="list-style-type: none"> 2. 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	<p>Administration password in plain text in a file readable by anyone.</p> <p>Workaround: Use either of these two workaround:</p> <ul style="list-style-type: none"> ■ Delete the file <code>.adminpasswd</code> manually. ■ Change the permissions of the <code>.adminpasswd</code> file to <code>400</code>.

TABLE 9 Issues Resolved in Sun Java System Web Server 6.1 SP6 (Continued)

Problem ID	Description
4991884	Search indexing hangs on large .doc files.
6246214	<p>Workaround:</p> <ol style="list-style-type: none"> Add the following property within the SEARCH element. <pre><SEARCH> <PROPERTY name="conversionExtensions" Value="pdf,doc"> : : </SEARCH></pre> Restart the server. Add .doc files to the collection.
6356179	<p>The Administration Server of Sun Java System Web Server 6.1 does not change the id attribute in the USERDB tag.</p> <p>Additional Information: To change the id attribute in the USERDB tag, use either of these two option:</p> <ul style="list-style-type: none"> 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 Sun Java System 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	Sun Java System Web Server crashes on Linux when Init fn="stats-init" is present in magnus.conf.
4718466	After importing the 6 th key to crypto, Sun Java System 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 Sun Java System Web Server 6.1SP4/SP5.

TABLE 9 Issues Resolved in Sun Java System Web Server 6.1 SP6 (Continued)

Problem ID	Description
6329109	Sun Java System Web Server 6.1: Lock file conflict for multiple installations running on the same port but with different IP addresses.
6378545	While updating a JSP search collection, updating a JSP file fails re-indexing.
6280778	PDF files unable to be indexed with Sun Java System 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 Sun Java System Web Server 6.1 SP6.
6285129	Using % in the <code>jsp:param</code> value fails in some circumstances.
6324034	Sun Java System Web Server has default limit for upload file size as 10 MB.
6361485	htaccess not working in Sun Java System Web Server 6.1 SP5 for User Document Directories.
6350122	Sun Java System Web Server 6.1SP5 on Windows: Cron-based log rotation fails with garbage characters inside the <code>scheduler.conf</code> file.
6388243	Installing a CRL on Sun Java System 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 <code>PolicyConstraints</code> mentioned in RFC3280 can be imported into the certificate database.
6376634	The SSL session was not timing out as expected when <code>SSL3SessionTimeout</code> or <code>SSLSessionTimeout</code> was configured to the user-defined value in <code>magnus.conf</code> . NSS 3.11.1 fixed the <code>magnus.conf</code> directives <code>SSL3SessionTimeout</code> and <code>SSLSessionTimeout</code> .

Issues Resolved in 6.1 SP5

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

TABLE 10 Issues Resolved in Sun Java System Web Server 6.1 SP5

Problem ID	Description
6322443	<p>NSFC buffer size should be configurable (64-Bit).</p> <p>Additional Information: Use the new <code>BufferSize nsfc.conf</code> directive to configure the size of the buffer used to transmit file contents on cache misses. The following directive can be added to <code>nsfc.conf</code> to increase the buffer size from its default of 8192 bytes to 16384 bytes: <code>BufferSize=16384</code></p> <p>Larger buffer size might result in improved throughput at the cost of increased latency and memory utilization.</p>
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 Sun Java System Web Server 6.0 SP7 instance to Sun Java System Web Server 6.1 SP2.
6244615	Sun Java System Web Server migration should correctly update RootCerts.
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	<p>SSL: Data larger than 8k is huge when the request triggers new SSL handshake.</p> <p>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 <code>SSLClientAuthDataLimit</code> in the <code>magnus.conf</code> 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:</p> <ul style="list-style-type: none"> ■ If authentication is not required, turn off authentication. ■ If authentication is required, make it mandatory by setting <code>require=1</code> in the <code>obj.conf</code>. <p><code>PathCheck fn="get-client-cert" dorequest="1" require="1"</code></p>
6229472	<code>.htaccess</code> directive is broken.
6170938	<code>accept language</code> does not work for User Document Directories.
6180991	Internal-Daemon Log Rotation does not work for files larger than 2 GB.
6254121	<code>.htaccess</code> fails to protect resources that do not have a corresponding file.

TABLE 10 Issues Resolved in Sun Java System Web Server 6.1 SP5 (Continued)

Problem ID	Description
6185904	New NSS error codes are not being handled properly.
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 Sun Java System Web Server 6.1 SP2/SP3 on the Windows 2000 platform.
6273472	Sun Java System 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 <code>Content-Length</code> 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.
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: <pre>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)</pre> The Sun Java System Web Server 6.1 SP5 (64-Bit) release introduces support for <code>sparcv9</code> .

Issues Resolved in 6.1 SP4

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

TABLE 11 Issues Resolved in Sun Java System Web Server 6.1 SP4

Problem ID	Description
6021153	<p>Required patch ID 112396-03 does not exist.</p> <p>The patch #112396-03 listed as required in earlier release notes was incorrect.</p> <p>The correct patch number is 112396-02.</p> <p>Solaris users must have the Sun recommended patch cluster installed, available in the Recommended and Security Patches section at http://sunsolve.sun.com.</p> <p><i>Solaris 8 (SPARC)</i></p> <ul style="list-style-type: none"> ■ Solaris 8 Update 7 ■ Sun recommended latest Security and Recommended patch cluster <p><i>Solaris 9 (SPARC and x86)</i></p> <ul style="list-style-type: none"> ■ 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	Sun Java System Web Server 6.1 fails to validate a client certificate with LDAP if the certificate contains Czech characters.
6171311	Frequent errors encountered when running Sun Java System 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	<p>Precompiled JSP files do not work as expected with <code>reload-interval</code> parameter in <code>sun-web.xml</code>.</p> <p>Workaround: Use the property <code>use-precompiled</code> (set to <code>true</code> under <code>jsp-config</code> in <code>sun-web.xml</code>) to specify that the JSP files are precompiled and should never need to be compiled at runtime.</p> <p>A sample <code>sun-web.xml</code> is as follows:</p> <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	<code>libpassthrough.so</code> not present after RPM installation of plug-in.

TABLE 11 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 ACL_LDAPSessionFree().
6173293	Web server always sets content type to text/html when Servlet filter is set.
6176264	Sun Java System Web Server 6.1 SP4 Solaris x86 unable to start the SSL instance through the Administration GUI.
6180677	Sun Java System Web Server SP4 for JES3 is unable to upgrade on top of Sun Java System 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 12 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 keyfile database.
4991338	Web server Administration console does not show all the tabs (in Mozilla browser).
5001819	Sun Java System Web Server 6.1: Nova Search Engine sometimes does not pick up document.
5014693	Java filters, HTTP compression, and SHTML fail to interoperate.

TABLE 12 Issues Resolved in Sun Java System Web Server 6.1 SP3 (Continued)

Problem ID	Description
5021077	A <code>java.lang.NullPointerException</code> is thrown if you click on the OK button without selecting the Directory Server.
5025617	Web server's JNDI needs to map resource-env-ref from <code>sun-web.xml</code> .
5042676	Request flow problem with Client tag code=302.
5056989	<p>Enable prefixing of hostname in session ID.</p> <p>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>.</p> <p>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>.</p> <pre><session-config> <session-manager> <manager-properties> <property name="prefixSessionIDWithHostname" value="true"> </manager-properties> </session-manager> </session-config></pre>
5057749	Sun Java System 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	<p>The load balancer plug-in (formerly Resonate plug-in) <code>loadbal.so</code> does not work on the Solaris SPARC platform.</p> <p>The location of the <code>loadbal.so</code> plug-in is <code>server-root/plugins/loadbal.so</code>.</p>
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 <code>iWS</code> console.
5013100	Two ports (for example, 2500 and 02500) are added in <code>server.xml</code> as different ports.

TABLE 12 Issues Resolved in Sun Java System Web Server 6.1 SP3 (Continued)

Problem ID	Description
5046634	<p>2-byte character in HTTP header and plug-in programs.</p> <p>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>.</p> <p>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:</p> <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> <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 13 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 13 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4657465	<p>Need to disable cookie-encoding.</p> <p>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>:</p> <pre><property name="encodeCookies" value="false"></pre> <p>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.</p>
4664945	Internal Error from URL forwarding form.
4666409	Clearing the <code>ErrorResponse</code> CGI file name.
4676934	Distributed -Administration: Overrides default ACI in Sun Java System 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.

TABLE 13 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4745314	\$id variable in VSCLASS docroot is not working on Windows.
4749239	ACLI: Incorrect processing of ACL.
4753601	MaxRqHeader directive in magnus.conf is not working as desired.
4754934	Vignette NSAPI plug-in on Sun Java System Web Server 6.0 not functioning correctly when HTTP1.1 is used.
4761188	<p>LDAP: Improve LDAP dynamic group performance for ACLs.</p> <p>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.</p> <p>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.</p> <p>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:</p> <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	Sun Java System 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>SmallestFileSpace</code> is set to a low value.
4788075	Setting the PATH variable in magnus.conf for Sun Java System 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 13 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4822720	<p>Keep-alive subsystem should be dynamically tuned.</p> <p>The keep-alive subsystem requires tuning for optimal performance. In Sun Java System 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 Sun Java System Web Server 6.1 SP2 so it performs some dynamic tuning to accommodate the actual load.</p>
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	<p>Unable to specify protocol for URL in generated redirects.</p> <p>The server generates a self-referencing URL whenever it sends a redirect to a client. As of Sun Java System 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.</p> <p>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:</p> <pre><LS remap="ls1" port="8080" security="disabled" . . .servername="https://www.sun.com"></pre> <p>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.</p>
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.

TABLE 13 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4905175	WebDAV ACL settings are inherited into new Virtual Servers.
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	Sun Java System Web Server 6.1 Digest authentication is not working for flat files.
4910266	Sun Java System 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.

TABLE 13 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4910869	NSFC enhancement needed. Add the <code>ReplaceFiles nsfc.conf</code> directive. When <code>ReplaceFiles=true</code> (default), the existing file cache behavior is preserved. <code>ReplaceFiles=false</code> 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.
4910272	Server should not accept mixed slashes for the doc root while adding a new server.
4912254	Web server installation fails due to <code>set -o noclobber</code> in <code>.env</code> .
4911070	Sun Java System 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 <code>ServletException</code> 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 <code>server.xml</code> .
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 <code>server.xml createconsole</code> attribute is ignored.
4925938	Null Pointer exception thrown if the user mistakenly edits the VS Administration URL.
4929848	Performance: Web server polls <code>ksstat</code> once per second.
4926414	I18N-korean: Re-indexing collection hangs when missing one or more existing docs.
4935797	<code>certmap.conf</code> file location misrepresented.
4930327	Destination headers are not URL decoded in MOVE/COPY requests.
4933483	SIGCHLD signals are reported on startup.
4935582	<code>TCP_NODELAY</code> need not be set for <code>AF_NCA</code> .
4930642	Source returned when the file's <code>mime.types</code> entry does not end with a carriage return.
4930329	Default values of <code>maxpropdepth</code> is poorly chosen.

TABLE 13 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
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 Sun Java System 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.
4948397	Sun Java System 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	Sun Java System 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 Sun Java System 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	Sun Java System 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.

TABLE 13 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
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 vs class values.
4951982	Invalid error message is displayed while configuring LDAP with wrong credentials.
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 scheduler.conf file.
4961864	Web server hangs when using rotate-callback.
4962059	Administration password stored as plain text in file setup.inf.
4969637	Minor coding error in send-error SAF.
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 (\plugins\java\samples\webapps\simple).
4972573	Incorrect behavior in web-apps-sample sample application in Sun Java System Web Server 6.1 SP1.
4972587	Incorrect instructions in index.html of the internationalization sample application.
4976454	Samples shipped with Sun Java System 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	NSFC_GetEntryPrivateData() calls NSFC_ExitCacheMonitor() when no entry exists.

TABLE 13 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4973079	The GUI retains dismissed invalid port entries and populates it when servername field validation fails.
4975788	classpath edited using Internet Explorer is broken; server JVM™ can't start.
4975798	Cannot add path to classpath suffix using web-admin.
4975782	Cannot delete external JNDI reference.
4970188	RPM can't locate system umask.
4971298	pkgchk -n fails for web server package in Java ES.
4986761	Sun Java System 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	Sun Java System 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.

TABLE 13 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
4997697	Page numbers are not displayed properly on the search results page.
4844616	Misconfiguration of <code>bswitch</code> 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 <i>signedBy</i> permissions to Jar files does not work.
4918754	Sun Java System Web Server 6.1 cannot process HTTP URL GET parameter that is in 8-bit charset.
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 <code>libjvm</code> .
4928358	JSP errors are wrongly reported as “Not Found” errors.
4930374	<code>extra-class-path</code> attribute in class-loader element in <code>sun-web.xml</code> does not work as expected.
4932893	Dynamic reloading does not work for web application descriptor files, for example, <code>web.xml</code> .
4939370	Web container thread names are not unique.
4934083	LDAP: Crash during LDAP authentication.
4934562	WEBC: <code>getRemoteUser()</code> 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 <code>AuthenticatorBase</code> returns 500 instead of 403.
4946762	Out-of-box default realm should be native.
4948123	Sun Java System Web Server 6.1 incorrectly reports client key size in certain situations.
4949842	WEBC: <code>isUserInRole()</code> 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	<code>htconvert</code> not converting <code>.nsconfig</code> wildcard patterns correctly.

TABLE 13 Issues Resolved in Sun Java System Web Server 6.1 SP2 (Continued)

Problem ID	Description
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	websrvd leaks memory on RedHat Linux Advance Server 3.0.
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 14 Issues Resolved in Sun Java System Web Server 6.1 SP1

Problem ID	Description
4642650	<p>Option needed to disable appending of absolute URL in a Servlet or JSP container.</p> <p>Fix details: New property added to sun-web.xml: relativeRedirectAllowed</p> <p>Default value: false</p> <p>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.</p>

TABLE 14 Issues Resolved in Sun Java System Web Server 6.1 SP1 (Continued)

Problem ID	Description
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.
4928794	Server restarts when trying to create null resource by PUT.
4929913	<p>Search engine does not extract and index FTS information from PDF files.</p> <p>Fix details: This fix applies to all supported platforms except Linux.</p> <p>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.</p> <ul style="list-style-type: none"> ■ 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: <pre><PROPERTY name="indexMetatags" value="Title"></pre> <p>Note – See issue 4956415 for details about displaying custom meta tag information in search results.</p>
4933935	On Solaris 9 release: reconfig does not work in package-based installs.
4945089	<p>ASN.1 parsing issue in SSL.</p> <p>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.</p>
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 15 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	sun.tools.javac.Main has been deprecated. Its exception stops valid JSP files.
4801874	ACL_LDAPSessionAllocate always returns LAS_EVAL_FAIL.
4811418	Digest authentication crashes.
4819405	Memory leak of the slapd process with the digestauth plug-in.
4820513	digestauth plug-in code is not thread safe.
4839875	When using cachefs or nfs as ClassCache and document-root, Sun Java System Web Server does not always pick up the new JSP.
4842190	Web server crashes when receiving Accept - Language header larger than 15 languages.
4842574	Server crash with malformed request.
4842601	Accept - Language header security issue.
4846832	CRL corrupts database.
4848896	digestauth plug-in crashes for a particular type of request.
4849914	Memory leak in digestauth plug-in for a particular type of request.
4855546	Log analyzer vulnerability.
4858026	JSP: crash in getParameter 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 16 Issues Resolved in Sun Java System Web Server 6.1 Documentation

Problem ID	Description
6507454	Current documentation gives incorrect instructions on how to log cookie information.
6528670	<i>Administrator's Guide</i> should document the steps to restart, start, or stop the schedulerd control daemon from command line.
6528678	<i>Release Notes</i> and <i>Installation and Migration Guide</i> have different Support Platform description for Sun Java System Web Server 6.1 SP7.
6528682	Two Server Instances Bind to Same Port on Windows.
6543821	Server does not close the old listen sockets on restart or reconfigure.
6559753	The release notes for the reverse proxy plug-in should include a Resolved Issues section.
6570039	<i>Administrator's Guide</i> needs correction: the -P option in the Exporting with pk12util section should contain a hyphen (-) after https-test-host.
6367812	Online help does not document steps to restart the schedulerd.
4957123	<i>Administrator's Guide</i> does not document the Search Query operators.
6493741	Provide steps on "How to Stop the schedulerd 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 netbuf_getbytes() is not available in the 6.1 NSAPI guide.
6472668	Sun Java System Web Server 6.1 Windows installation should use -Xrs JVM option by default.
6503463	Sun Java System 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 validate-server-cert SAF.
6391505	<i>Installation and Migration Guide</i> should document configuration file writability, root security risks, and Solaris net_privaddr privilege.
6359385	<i>Administrator's Configuration File Reference</i> should document the magnus.conf variable MaxKeepAliveConnections value range for 64-bit server.

TABLE 16 Issues Resolved in Sun Java System Web Server 6.1 Documentation (Continued)

Problem ID	Description
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> .
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	<p><i>Administrator's Guide</i> has the following incorrect information:</p> <ul style="list-style-type: none"> ■ 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.

TABLE 16 Issues Resolved in Sun Java System Web Server 6.1 Documentation (Continued)

Problem ID	Description
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 content - type 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 StrictHttpHeaders directive as on.
6067318	<i>Administrator's Configuration File Reference</i> has insufficient information about the set-variable error parameter.
6230379	<i>Administrator's Configuration File Reference</i> incorrectly describes a remove - file() SAF.
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 SP11 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 17 General Known Issues

Problem ID	Description
6496339	<p>(Windows 2003 only) Report generation fails with <code>lganaLyz.exe</code> application error in Sun Java System Web Server 6.1 SP6.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Log in to the web server machine. 2. Go to <code>WSinstall\bin\https\httpadmin\bin</code>. 3. Run the <code>flexanlg util</code> command to get the report, for example, <pre>C:/Sun/WEBSER~1.1/extras/flexanlg/flexanlg -F -n jwsoffice -x -i C:/Sun/WEBSER~1.1/HTTPS~2/logs/access -c hnrfeuok -t s5m5h10 -l c+5h5 -p ctl</pre> <p>Note –</p> <ul style="list-style-type: none"> ■ Type the above command in a continuous line. ■ Replace <code>jwsoffice</code> with your hostname or IP address. You also can export the output to an HTML file and use a browser to view it. For more information on the <code>flexanlg</code> utility, see Sun Java System Web Server 6.1 SP11 Administrator's Guide.
6553259	<p>Sun Java System Web Server 6.1 SP8, when run with JDK 6 shows the search collection names (checkbox) in a different order in the search pages, as compared to when it is run with older JDK versions.</p>
6198559	<p>JES3: Patch upgrade of web server on Linux displays false uninstall notification.</p>
4988370	<p>Contents do not get updated under a particular situation on HP-UX 11.0 platforms.</p>
6413819	<p>The HP-UX operating system has two cache spaces, Page Cache and Buffer Cache, for accessing files. Normally, when the application performs the <code>mmap</code> function, the file is mapped to Page Cache.</p> <p>However, currently the operating system has no responsibility to synchronize the data between the Page Cache and Buffer Cache if the <code>mmap</code> is performed as <code>PRIVATE</code> option. Even if you copy the file, the operating system refreshes the cached data only in the Buffer Cache.</p> <p>Workaround: Use a text editor to update the contents each time.</p>
6404983	<p>Searching of Users and Groups through LDAP server using Administration Graphical User Interface fails.</p> <p>Workaround: For this feature to work, install Red Hat AS 3.0 update 1–uname -r: 2.4.21-9.ELsmp.</p>

TABLE 17 General Known Issues (Continued)

Problem ID	Description
5060906	<p>Authorization dialog appears for an unprotected directory without an index file.</p> <p>Additional information: If a directory does not have an index file such as <code>index.html</code>, <code>index.jsp</code>, or <code>home.html</code>, then while turning on ACL authentication anyone with read and write permission is denied the list access even though this directory is unprotected.</p> <p>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:</p> <pre>allow (read, execute, info, list) user = "anyone"</pre>
6590899	<p>Web server fails to startup with JDK 1.5 initialization.</p> <p>Workaround</p> <p>Set the following in the start script:</p> <pre>LDR_CNTRL=MAXDATA=0xB0000000@DSA; export LDR_CNTRL</pre>

Administration

The following table lists the known issues in Administration.

TABLE 18 Known Issues in Administration

Problem ID	Description
6543821 6531819	<p>If you remove a listen socket or change its port number and restart or reconfigure the server, the server fails to close the old listen socket. The operating system continues to accept connections on that port, but the server will not respond to requests on that port.</p> <p>Work around: Close the old listen socket, stop the server and restart it.</p>
6301761	<p>ACL applet might fail to load with Mozilla 1.4 and Firefox 1.0.6.</p>
6021151	<p>Problem using <code>HttpServerAdmin</code> to create a JNDI resource containing an LDAP domain name containing commas.</p> <p>Workaround: For <code>HttpServerAdmin</code> to escape the <code>'</code> in the property, use <code>\'</code> as the escape character. Use <code>\</code> on the Windows platforms.</p> <p>In the property</p> <pre>java.naming.provider.url=ldap://localhost:389/ou=loggingQueues, ou=tms,ou=services,ou=abc</pre> <p>the <code>'</code> are escaped as shown here:</p> <pre>-property java.naming.provider.url=ldap://localhost:389/ou=loggingQueues \\,ou=tms\\,ou=services\\,ou=abc</pre>

TABLE 18 Known Issues in Administration (Continued)

Problem ID	Description
5035129	Unable to manage Directory Server user/group/ou using Sun Java System 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	<p>When Distributed Administration is enabled, the local Administration user is disabled.</p> <p>Workaround: Create a user with the default Administration user name within the distributed Administration group.</p> <p>The newly created LDAP Administration user must have the same password as the web server Administration user.</p>
4725683	<p>The log file date stamp does not take the local time zone into account and shows the incorrect date.</p> <p>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.</p>
4761960	<p>Sun Java System Web Server 6.0 SP4: Cannot enable Distributed Administration when using SASL and anonymous bind.</p> <p>Workaround: Do not use anonymous bind to an SSL-enabled directory server.</p>
4841310	<p>Can't get REMOTE_USER variable when authenticated by .htaccess.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
4865295	The End User Administration feature (under Distributed Administration in the Administration interface) is no longer supported.

TABLE 18 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.
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/appserver/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 Sun Java System Web Server 6.1 when the passthrough plug-in is configured. Workaround: Change the line from the service directive of passthrough from Service type="magnus-internal/passthrough" fn="service-passthrough"servers="http://server:port" to Service fn="service-passthrough" servers="http://server:port"
4991278	No Administration GUI feature is available to delete JSP ClassCache files.

TABLE 18 Known Issues in Administration (Continued)

Problem ID	Description
6316265	The Administration GUI says Click Apply for the changes to take affect but no Apply button exists in the Administration Server.
6720218	<p>The SNMP web server subagent doesn't answer to snmpwalk command on Solaris 10.</p> <p>The SNMP master agent bundled with Sun Java System Web Server 6.1 hangs on Solaris 10 U2 (and higher) due to the TCP fusion feature added in Solaris 10 U2.</p> <p>Workaround: Use either of these two workaround:</p> <ul style="list-style-type: none"> ■ Disable TCP fusion by adding the following line in /etc/system: set ip:do_tcp_fusion = 0x0 ■ Change the tcp_xmit_hiwat value to a higher value like 262144. # ndd -set /dev/tcp tcp_xmit_hiwat 262144 Peer snmp master agent functions properly. If you are setting tcp_xmit_hiwat value, you may put it into rc script to avoid setting it manually after system reboot.

TABLE 18 Known Issues in Administration (Continued)

Problem ID	Description
6708852	<p>ACL did not update USERDB in server.xml, then [NSACL6000] HTTP5239 errors when access page</p> <p>When you use a non-default authdb for ACL, ensure that the authdb detail has been added to server.xml. Else, the server will throw an error later when you access the page protected by ACL as:</p> <p>[NSACL6000] HTTP5239: digestrealm is not a registered database</p> <p>Workaround:</p> <p>The error is because, the server.xml still has USERDB as “default” and cannot find the “digest1” for ACL as shown below:</p> <pre data-bbox="459 586 1282 725"><VSCLASS id="vsclass1" objectfile="obj.conf"> <VS id="https-testdigest" connections="lsl" mime="mime1" aclids="acl1" urlhosts="apple"> <PROPERTY name="docroot" value="/export/home/iws6.1sp9/docs"/> <USERDB id="default"/></pre> <p>Add manually the below information into server.xml, after default USERDB declaration under the required virtual server, and restart the server.</p> <pre data-bbox="459 819 1282 847"><USERDB id="digestrealm" database="digestrealm"/></pre> <p>You also need to ensure that authdb has been rightly mentioned in the dbswitch.conf and ACL file.</p> <p>In dbswitch.conf file:</p> <pre data-bbox="459 975 1282 1090">apple:/export/home/iws6.1sp9> cat userdb/dbswitch.conf directory digestrealm file digestrealm:syntax digest digestrealm:digestfile /export/home/iws6.1sp9/digestrealm</pre> <p>In ACL file:</p> <pre data-bbox="459 1149 1282 1454">acl "default"; authenticate (user,group) { database = "digestrealm"; method = "digest"; prompt = "digestrealm"; }; deny (all) (user = "anyone"); allow (read,execute,list,info) (user = "all");</pre>

Core

The following table lists the known issues in Core.

TABLE 19 Known Issues in Core

Problem ID	Description
6363944	<p>websrvd child process orphaned when Solaris crypto softtoken (libpkcs11.so) is used in Sun Java System Web Server 6.1SP5 64-bit.</p> <p>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.</p>
6641109	<p>Web server crashing configured with an NFS-mounted doc root directory</p> <p>Web server crashes if NFS file is removed or replaced, while using NFS and <code>MediumFileSizeLimit > 0</code>. Therefore, you should not use <code>MediumFileSizeLimit > 0</code>, if the document root is mounted over NFS.</p> <p>Workaround</p> <p>When Web server documents are residing on an NFS mount, as in NFS client, set <code>MediumFileSizeLimit</code> to 0 in <code>nsfc.conf</code>.</p>
6766108	<p>The index file is displayed from the web server config directory.</p> <p>When Directory Indexing is set to 'None', web server throws a 500 error instead of a 404 error. The index file is also displayed from the config directory, exposing critical information.</p> <p>Workaround</p> <p>The below modification to the <code>obj.conf</code> file rectifies the response; returning a 404 error without displaying the index file.</p> <pre><Client type="magnus-internal/directory"> ObjectType fn="set-variable" error="403" noaction="true" </Client> Service method="{GET HEAD}" type="magnus-internal/directory" fn="send-error" path="/tmp/index.html" Service method="{GET HEAD POST}" type="*-magnus-internal/*" fn="send-file" Service method="TRACE" fn="service-trace"</pre>

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 57.](#)

TABLE 20 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 that eight characters.
4964908	No documentation available regarding feature upgrades. Additional Information: See “Installation, Upgrade, and Migration Notes” on page 23.
4928287	Need to doc the non-existence of <instance>/lib All documents do not inform user the nonexistence of <instance>/lib 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 Sun Java System Web Server 6.1 on Solaris release 8.

Installation

The following table lists the known issues in Installation.

TABLE 21 Known Issues in Installation

Problem ID	Description
6590899	AIX Web server fails to start with JDK 1.5. Workaround Set the following in the start script. LDR_CNTRL=MAXDATA=0xB0000000@DSA; export LDR_CNTRL

TABLE 21 Known Issues in Installation (Continued)

Problem ID	Description
5020317	<p>JDK only upgrade results in disabling search. The user receives an exception, and the search page is not accessible from the GUI.</p> <p>Workaround: This exception does not happen if Sun Java System Web Server 6.1 SP2 core is installed along with or prior to installing JDK alone. In addition, if Sun Java System Web Server 6.1 SP2 core is installed on top of a JDK-upgraded Sun Java System Web Server 6.1 SP1, the exception does not show up.</p>
4855263	<p>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.</p> <p>Workaround: Do not install the web server into a directory with spaces in the name.</p>
4869238	<p>On the Windows platform, the Sun Java System Web Server installer does not accept a long name as server - root.</p> <p>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.</p>
4901205	<p>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.</p> <p>Workaround: If you need to return to previous screens during the installation, quit the installer and start again.</p>
4937915	<p>On the AIX platform, Control-C makes the terminal screen hang during installation.</p> <p>This problem occurs on the screen used to specify the name of the computer on which the web server will be installed.</p>
4960048	<p>Some SNMP related files are overwritten when upgrading to Sun Java System Web Server 6.1 SP1.</p> <p>Workaround: Back up the following files before the upgrade:</p> <pre>server-root/plugins/snmp/magt/CONFIG server-root/plugins/snmp/sagt/CONFIG</pre>

Migration

The following table lists the known issues in Migration.

TABLE 22 Known Issues in Migration

Problem ID	Description
6514480	<p>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.</p> <p>Workaround: Manually add the following entries to the obj . conf file and restart the instance:</p> <pre data-bbox="462 423 908 1008"> <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	<p>Cannot change the document root of a migrated server from 4.1.</p> <p>Workaround: Edit the migrated instance's obj . conf and server . xml manually. These files are located under <i>SERVER_ROOT/HTTPS-INSTANCE/config</i> directory.</p> <p>In obj . conf change the line</p> <pre data-bbox="462 1194 1033 1307"> NameTrans fn=document-root root="<existing_doc_root>" to NameTrans fn=document-root root="\$docroot" </pre> <p>In server . xml, under the relevant VSCLASS change the line</p> <pre data-bbox="462 1373 968 1480"> <PROPERTY name="docroot" value="existing-doc-root"> to <PROPERTY name="docroot" value="new-doc-root"> </pre>

TABLE 22 Known Issues in Migration (Continued)

Problem ID	Description
6213097	<p>ktsearch.jar is not migrated correctly on Sun Java Enterprise System 3 (JES3).</p> <p>Workaround: Manually edit the server.xml file of the migrated instance to point to the correct path.</p> <p>For Linux: /opt/sun/private/share/lib/ktsearch.jar</p> <p>For Solaris SPARC: /usr/share/lib/ktsearch.jar</p>
5007081	<p>Web application file status ignored during migration from 6.0 to 6.1</p> <p>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.</p> <p>Workaround: Edit the server.xml file of the migrated instance and turn off status for each web application.</p>
4988156	<p>Installation of SP_2 patch on existing install (update)</p> <p>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>.</p>

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 23 Known Issues in Samples

Problem ID	Description
5014039	<p>Simple JSP files throw an exception due to the distributable tag in web.xml.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Remove the tag distributable from the web.xml file in the /simple/src directory. 2. Redeploy the web application.
No ID	<p>rmi-iiop sample is missing a step.</p> <p>In the “Deploying the Sample Application” section, after executing the command ant deploy (step 2), restart the web server instance.</p> <p>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>.</p>

TABLE 23 Known Issues in Samples (Continued)

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

Search

The following table lists the known issues in Search.

TABLE 24 Known Issues in Search

Problem ID	Description
4977315	AIX-Search Engine of 6.1 should have the ability to change the sort order.
5038203	<p>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>.</p>
4684124	<p>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.</p> <p>Workaround: Rebuild the entire collection by performing one of the following actions:</p> <ul style="list-style-type: none"> ■ Remove all documents and add them back again. ■ Delete the collection and create it again.
4911725	<p>Search does not work when you search for a word using a different case pattern.</p> <p>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.</p>
4963236	<p>On HP-UX: PDF files are not converted to HTML for inclusion in search collections.</p> <p>This problem occurs if the following patch is installed on the HP-UX 11i system:</p> <p>PHSS_28871 – ld/linker cumulative patch</p>
6701532	<p>Search engine fails to index password protected PDF document</p> <p>If a PDF document is password protected and encrypted, the search engine fails to index the document's metadata. As a result, the requested search fails.</p>

TABLE 24 Known Issues in Search (Continued)

Problem ID	Description
6731491	<p>Sun Java System Web Server 6.1 SP10 64-bit solaris sparc, few search tests fails when JDK 1.6.0_07 used.</p> <p>While running search tests, a few test cases fail with stack overflow error when JDK 1.6.0_07 is used. Whereas, the same test passes with bundled JDK 1.5.0_16.</p> <p>Workaround: Increase the StackSize value from 131072 to a value, for example, 262144 in the magnus . conf file.</p>

Security

The following table lists the known issues in Security.

TABLE 25 Known Issues in Security

Problem ID	Description
4671445	<p>Sun Java System Web Server cannot connect to an LDAP server over SSL if LDAP client authentication is required.</p> <p>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.</p>
4863599	<p>Cannot use the same group name under different organizational units.</p> <p>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.</p> <p>Workaround: Use a different group name for each organizational unit.</p>
4963468	<p>In some circumstances, the "list" right has no effect on directory listing.</p> <p>According to Chapter 9, "Controlling Access to Your Server," in <i>Sun Java System Web Server 6.1 SP11 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.</p> <p>If you need to restrict directory indexing, disable indexing, as discussed in Chapter 16, "Content Management," in <i>Sun Java System Web Server 6.1 SP11 Administrator's Guide</i>, instead of or in addition to denying the list right.</p>

TABLE 25 Known Issues in Security (Continued)

Problem ID	Description
6310956 6298215	<p>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.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 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 26 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	<p>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.</p> <p>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 reconfigure message. If the message is not there, then run the <code>reconfigure</code> script manually.</p>

Web Container

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

TABLE 27 Known Issues in the Web Container

Problem ID	Description
6387189	Java logging issues in a deployed module.

TABLE 27 Known Issues in the Web Container (Continued)

Problem ID	Description
4903162	Issue on Windows related to the case of <code>url-patterns</code> . 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 28 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 29 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.

TABLE 29 Known Issues in the Localization (Continued)

Problem ID	Description
6441984	<p>The Administration online help is displayed in English even if the locale is set to zh-cn.</p> <p>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.</p> <p>Workaround: Set the browser's prefer locale to zh to view the online help in the Chinese language.</p>
6583870	<p>Sun Java System Web server 6.1 SP8: In Internet Explorer 7, you can select the locale as ja or ja-JP. If you select the locale as ja, online help is displayed in Japanese. But when you select the locale as ja-JP, online help is displayed in the English language.</p>

How to Report Problems and Provide Feedback

If you have problems with Sun Java System Web Server 6.1 SP11, 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

Please have the following information available prior to contacting support. This helps to ensure that our support staff can best assist you in resolving problems.

- 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. To share your comments, go to <http://docs.sun.com> and click Feedback.

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 at <http://docs.sun.com/app/docs/prod/sjs.websrv61#hic>
- 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>

