

**Not For Publication**

# **Sun Java System Web Server 7 Technology Preview 1 Release Notes**



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

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# Sun Java System Web Server 7 Technology Preview 1 Release Notes

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These release notes contain important information about the Sun Java™ System Web Server 7 for the Technology Preview 1 release. These notes address new features and enhancements, installation notes, known problems, and other late-breaking issues. Read this document before you begin using the Sun Java System Web Server 7 (Web Server 7).

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**Note** – This product is a Technology Preview 1 release of Sun Java System Web Server 7. Sun does not offer technical support for this Technology Preview 1 version. It is not recommended that you use this Technology Preview 1 version for deploying mission-critical applications. Sun welcomes your feedback about this release. See [“How to Report Problems and Provide Feedback”](#) on page 20 later in these Release Notes for instructions on providing product feedback.

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These release notes contain the following sections:

- [What’s New in Web Server 7](#)
- [Supported Platforms](#)
- [Required Patches](#)
- [Supported Browsers](#)
- [Installation and Migration Notes](#)
- [Product Documentation](#)
- [Known Issues](#)
- [How to Report Problems and Provide Feedback](#)

## What’s New in Web Server 7

Web Server 7 is a major new release with significant enhancements in the Administration Infrastructure. 64-bit version of Web Server is supported on both the Solaris™ SPARC® and AMD64 platforms.

Web Server 7 provides comprehensive command-line interface support, consolidated configuration, enhanced security with Elliptic Curve Cryptography support, and clustering support. It also comes

with a robust built-in migration tool that helps migrate applications and configurations from Web Server 6.0 and 6.1 to Sun Java System Web Server 7.

Sun Java System Web Server 7 implements many new features.

- [JMX Based Management Infrastructure](#)
- [Redesigned Administration Server Interface](#)
- [Command-Line Interface Support](#)
- [N1 Grid Container \(Service Provisioning Support\)](#)
- [Consolidated Configuration Files](#)
- [Java Servlet 2.4 and Java Server Pages \(JSP\) 2.0 Support](#)
- [JavaServer Pages Standard Tag Library \(JSTL\) 1.1 and Java Server Faces 1.1 Support](#)
- [JNDI Support](#)
- [Java Database Connectivity and Connection Pooling Support](#)
- [Java SE 5.0 Support](#)
- [Java Web Services Developer Pack 2.0](#)
- [Session Replication Support](#)
- [Extensive Real-Time Monitoring Support](#)
- [Integrated Reverse Proxy Plug-in and FastCGI Plug-in Support](#)
- [Enhanced Security](#)
- [Elliptic Curve Cryptography](#)
- [NetBeans 5.0 Support](#)
- [Sun Java Studio Enterprise Support](#)

## JMX Based Management Infrastructure

Web Server 7 management infrastructure is based on modern distributed Java™ Management Extensions (JMX) technology. The JMX provides the tools for building distributed, web-based, modular and dynamic solutions for managing and monitoring devices, applications, and service-driven networks. JMX helps manage and monitor across clustered Web Server deployments.

## Redesigned Administration Server Interface

The Administration Server is a specially configured Web Server instance on which the administration applications are deployed. An administration server runs on each node in the server farm. Of these servers, one server is configured to be the master server (Administration Server) and the rest are configured to be slave servers. Each of the slave server is referred to as an Administration Agent.

The HTML driven administration server is redesigned to make common tasks easier to access and complex tasks easier to accomplish. New features in the Administration Server are as follows:

- Web-based wizards for performing the most common tasks
- Enhanced command-line interface (CLI) support for server configuration and administration tasks
- Administration Agent to manage remote Web Server instances
- Centralized configuration store
- Support for deploying Web Server configuration information on multiple machines (nodes). This feature extends to support Web Server in a server farm (clusters).
- Built-in management and monitoring of server clusters

## Command-Line Interface Support

The Web Server 7 command-line interface supports configuration and administration of the server, thus ensuring easy manageability. The key features of administration CLI are as follows:

- Embedded Java Command Language (JACL) shell for scripting
- Extensible CLI, which means, more commands can be added to the CLI using the third-party plug-ins if required
- Support for both remote mode and local mode of execution of commands for configuration, lifecycle, runtime maintenance, and runtime monitoring of the administration server
- Auto completion of commands when you type one or more character followed by a tab key
- Elegant CLI-based operational modes including single mode, shell mode, and file mode

## N1 Grid Container (Service Provisioning Support)

Web Server 7 is integrated with N1™ Grid Service Provisioning Server 5.2 (N1GSP). N1GSP is an application provisioning tool that eliminates the need for custom scripts. With the integration of Web Server with N1GSP, as an administrator, you do not need to write custom scripts for installing multiple Web Servers in a datacenter environment or in a server farm.

## Consolidated Configuration Files

Configuration files in Web Server 7 are rearranged and consolidated to simplify administration.

In the earlier versions of Web Server, the configuration files in `userdb` were shared by all instances, while the information contained in these files was often instance-specific. In Web Server 7, the configuration files from `userdb` directory are removed. Their functionality is incorporated into the `server.xml` file in the `config` directory. Configuration files from the `alias` and `httpacl` directories are moved into `config` directory. These changes consolidate instance-specific configuration information within the instance-specific `config` directory.

## Java Servlet 2.4 and Java Server Pages (JSP) 2.0 Support

Web Server 7 includes a Java 2 Platform, Enterprise Edition (J2EE™)-compliant implementation of the Java Servlet 2.4 and JavaServer Pages™ (JSP™) 2.0 specifications. Web Server 7 web container provides the flexibility and reliability needed to design and deploy web applications that comply with Java technology standards.

Servlets provide a component-based platform-independent method for building web-based applications, without the performance limitations of CGI programs. JSP technology is an extension of the servlet technology that support authoring of HTML and XML pages with dynamic content.

For information about these technologies, see the following resource:

<http://java.sun.com/j2ee/1.4/docs/tutorial/doc/index.html>

## JavaServer Pages Standard Tag Library (JSTL) 1.1 and Java Server Faces 1.1 Support

The JavaServer™ Pages Standard Tag Library (JSTL) 1.1 provides custom tags that encapsulate core functionality common to many Web applications. JSTL provides support for structural tasks such as iteration and conditionals, tags for manipulating XML documents, internationalization tags, SQL tags, and commonly used functions.

Web Server 7 supports JavaServer Faces™ technology. JavaServer Faces simplifies building user interfaces for JavaServer applications.

For information about these technologies, see the following resource:

<http://java.sun.com/j2ee/1.4/docs/tutorial/doc/index.html>

## JNDI Support

The Java Naming and Directory Interface™ (JNDI) provides seamless connectivity to heterogeneous enterprise naming and directory services.

## Java Database Connectivity and Connection Pooling Support

Web Server provides out-of-the-box, seamless Java DataBase Connectivity (JDBC™), and supports a wide range of industry-standard and customized JDBC drivers.



Web Server 7 supports JDBC connection pooling that is a group of reusable connections for a particular database. Because creating each new physical connection is time consuming, the server maintains a pool of available connections to increase performance. When an application requests a connection, it obtains a connection from the pool. When an application closes a connection, the connection is returned to the pool.

For information on creating JDBC connection pools, see the *Sun Java System Web Server 7 Administrator's Guide*.

## Java SE 5.0 Support

Web Server 7 supports Java 2 Platform, Standard Edition (J2SE™) 5.0 (32-bit). For 64-bit version of Web Server, 64-bit version of JDK™ software support is available. 64-bit version of Web Server is however currently supported only on Solaris Operating System.

Web Server 7 with default installation option installs the bundled JDK software along with the Web Server. You can choose a different JDK version either during the installation or following the installation of Web Server.

Web Server 7 requires JDK version 1.5.0\_06 or later.

## Integrated Java Web Services Developer Pack 2.0 Technologies

Java Web Services Developer Pack 2.0 (JWSDP 2.0) XML technologies are included with Web Server 7. The web service developed on JWSDP can be deployed on Web Server 7 as a web application using the `wadm` command.

Web Server 7 provides support for security features such as, XML Encryption, XML Digital Signature, and support for message security provider.

For more information on JWSDP 2.0, see the following resource:

<http://java.sun.com/webservices/jwsdp/index.jsp>

The JWSDP 2.0 samples are located at the following location. These samples can be deployed on Web Server 7.

[http://java.sun.com/webservices/downloads/2.0\\_preview\\_webservicespack.html](http://java.sun.com/webservices/downloads/2.0_preview_webservicespack.html)

## Session Replication Support

Web Server 7 supports the cluster-based session replication and failover. The purpose of session failover is to provide high availability to web applications. High availability of web applications is

achieved by replicating HTTP sessions from one instance to another server instance of the same server cluster. That is, each HTTP session has a backup copy on a remote instance. In the event of server failure which renders one instance in the cluster unavailable, the cluster still maintains session continuity.

## Extensive Real-Time Monitoring Support

In addition to the monitoring facilities in earlier versions of Web Server, Web Server 7 adds the following monitoring enhancements:

- Monitor Servlet/JSP/JSTL container characteristics
- Monitor process and virtual server statistics from within the Administration Server
- Integrates with the System Management Agent on Solaris OS 10. Integrates with the Java Enterprise System Monitoring Framework (Java ES-MF) that makes Web Server 7 monitoring information available within the Java ES-MF.
- Can access monitoring data as Message Beans (MBeans) using JConsole, JES-MF or any JMX compliant client applications

## Integrated Reverse Proxy Plug-in and FastCGI Plug-in Support

Reverse Proxy and FastCGI plug-ins are integrated with Web Server 7. These plug-ins can be executed as internal modules. In Web Server 6.1, these plug-ins had to be downloaded separately and installed.

Web Server 7 provides GUI and CLI support for configuring the reverse proxy plug-in.

## Enhanced Security

Web Server 7 supports a wide variety of technologies that allows data encryption and validation, request authentication, and server process protection. Key security feature enhancements include the following:

- Solaris Operating System 10 cryptographic framework (for example, `libpkcs11.so`) support including support for UltraSPARC-T1 hardware acceleration
- Denial of Service (DoS) attack protection enhancements
- Cross-site scripting protection through the native `sed(1)`-based input filtering
- Web Services Security:
  - IETF XML Digital Signature
  - W3C XML Encryption

- Integrated the Platform for Privacy Preferences (P3P) support
- WebDAV access control
- The LDAP auth-db is enhanced to make search expressions and match attributes configurable
- Enhancements to LDAP interaction and Microsoft Active Directory Interoperability
- Support for migration of certificate (JKS) from Apache or Tomcat
- Support for dynamically applied Certificate Revocation Lists (CRLs)

## Elliptic Curve Cryptography Support

Sun Java System Web Server has always supported RSA keys. In addition to the continued support for RSA keys, Web Server 7 introduces support for Elliptic Curve Cryptography (ECC).

ECC is the next generation of public-key cryptography for mobile or wireless environments. ECC is based on a set of algorithms for key generation, encryption, and decryption for performing asymmetric cryptography.

Important features of ECC are as follows:

- Compared to traditional cryptosystems like RSA, ECC offers equivalent security with smaller key sizes. This means faster computations, lower power consumption, as well as memory and bandwidth savings.
- ECC operates on elliptic curves. You must pick a curve and a key length. Curves are standardized and given names by various organizations: NIST, ANSI, SECG. These standards include the key length and hence in practice you only need to pick one of the predefined curve names. Web Server 7 supports all the curves currently specified.

For more information on how to use ECC in Web Server, see the *Sun Java System Web Server 7 Administrator's Guide*.

## NetBeans 5.0 Support

Web Server 7 provides plug-ins to integrate with the NetBeans IDE for deploying and debugging web applications. NetBeans is a complete development environment to create Java EE based web applications with the standard components.

In addition to the deployment of the web applications, the plug-in also provides support for the following tasks:

- Server management functions, such as start or stop server instances
- Enable or disable applications
- Create server wide resources, such as JDBC resources, JDBC connection pools

For information about NetBeans 5.0, visit:

<http://www.netbeans.org/kb/50/index.html>

## Sun Java Studio Enterprise Support

Web Server 7 supports Sun Java Studio Enterprise 8.1. Sun Java Studio technology is Sun's powerful, extensible, integrated development environment (IDE) for Java technology developers. Sun Java Studio 8.1 is based on NetBeans software, and integrated with the Sun Java platform.

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

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**Note** – Sun Java Studio 8.1 plug-in for Web Server 7 works only with a local Web Server. That is, the IDE and the Web Server must have been installed on the same machine.

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For information about using the web application features in Sun Java Studio 8.1, see the following tutorial:

<http://developers.sun.com/prodtech/javatools/jsenterprise/learning/tutorials/#jse8>

For more information about Sun Java Studio 8, visit:

<http://www.sun.com/software/sundev/jde/>

## Supported Platforms

Web Server 7 can be installed on the Solaris, Linux, and Windows platforms. The following table summarizes platform support. For more information about installation requirements, see “[Required Patches](#)” on page 13 in these release notes.

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**Note** – Windows and Linux will have only 32-bit version of Web Server 7 on x64 platform.

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**TABLE 1** Web Server 7 Supported Platforms

Vendor	Architecture	Operating System	Minimum Required Memory	Recommended Memory	Recommended Disk Space
Microsoft	Intel x86/AMD	Windows XP Professional, Windows 2003 Server, Enterprise Edition	128 MB	512 MB	550 MB

TABLE 1 Web Server 7 Supported Platforms (Continued)

Vendor	Architecture	Operating System	Minimum Required Memory	Recommended Memory	Recommended Disk Space
Sun	UltraSPARC®	Solaris 8, 9, 10	128 MB	512 MB	550 MB
Sun	x86/AMD 64	Solaris 9, 10/ Solaris 10	128 MB	512 MB	550 MB
-	Intel x86/AMD	Red Hat Enterprise 3.0, 4.0 Advanced Server  SuSE Linux 9 Enterprise Server	128 MB	512 MB	550 MB

**Note –**

1. HP-UX will be a supported platform when Web Server 7 is publicly released. HP-UX is however not supported for Web Server 7 Technology Preview 1.
2. Intel Itanium architecture is not supported.

## Required Patches

Update your operating system with the latest applicable patches. Required patches are listed in the following sections.

**Note –** The patches listed in the following sections are required for successful installation and proper execution of Web Server 7 on a supported platform. If you find that these patches are *obsoleted*, download the most recent revisions of these patches. Although obsoleted patches are available at <http://sunsolve.sun.com>, Sun recommends using the most recent revision of these patches. Obsoleted patches do not include the latest bug fixes and product enhancements. These patches might require installation of additional patches as a corrective measure.

Web Server 7 installation will not complete successfully, if the required or latest C++ shared library patches are not installed on your machine.

## Solaris Patches

On Solaris Operating System, you must have the Sun recommended patch cluster installed.

### Solaris 8 (SPARC)

The requirements for installing Web Server 7 on Solaris 8 Operating System are as follows:

- Solaris 8 Update 7 or later
- Sun recommended latest Security and Recommended patch cluster
- 109147-40– Linker patch
- 108434-18– Shared library patch for C++ (for 32-bit version of Web Server 7)
- 108435-18– Shared library patch for C++ (for 64-bit version of Web Server 7)

### Solaris 9 (SPARC and x86)

The requirements for installing Web Server 7 on Solaris 9 Operating System are as follows:

#### Solaris 9 (SPARC)

- Solaris 9 Update 4 or later
- Sun recommended latest Security and Recommended patch cluster
- 112963-25– Linker patch
- 111711-12– Shared library patch for C++ (for 32-bit version of Web Server 7)
- 111712-12– Shared library patch for C++ (for 64-bit version of Web Server 7)

#### Solaris 9 (x86)

- Solaris 9 Update 4 or later
- Sun recommended latest Security and Recommended patch cluster
- 113986-21– ld patch
- 117172-17– Kernel patch
- 111713-12– Shared library patch for C++ (for 32-bit version of Web Server 7)

### Solaris 10 (x86)

The requirements for installing 64-bit version of Web Server 7 on Solaris 10 Operating System are as follows:

#### Solaris 10(x86)

- 121208-02– ld and libc.so.1 patch
- 119964-03– Shared library patch for C++
- SUNWlxml (for 64-bit version of Web Server 7)

## Incompatible Patches

Some incompatible patches can affect Web Server startup and result in server not responding to requests. The following table lists such patches. If you have an incompatible patch installed on your machine, you need to upgrade the patch to a recommended compatible patch.

TABLE 2 List of Incompatible Patches

Operating System	Incompatible Patch	Recommended Compatible Patch
Solaris 8 SPARC	109147-38 (linker patch)	109147-40 (linker patch)
Solaris 9 SPARC	112963-22 (linker patch)	112963-25 (linker patch)
Solaris 10 SPARC	117461-06 (ld patch)	117461-08 (ld patch)
Solaris 9 x86	113986-20 (linker patch)	113986-21 (linker patch)
Solaris 10 x86	118345-11 (ld and libc.so.1 patch)	121208-02 (ld and libc.so.1 patch)

Patches are available in the Recommended and Security Patches section at:  
<http://sunsolve.sun.com>

## Supported Browsers

This section lists the browsers supported on UNIX and Windows platforms.

UNIX platforms:

- Mozilla 1.7 or later
- Firefox 1.0.4 or 1.5 or later

Windows platform:

- Microsoft Internet Explorer 6 or later
- Netscape 7.0 or later

## Installation and Migration Notes

This section includes notes about installing and migrating your Sun Java System Web Server. For detailed information about these topics, review the information in the *Sun Java System Web Server 7 Installation and Migration Guide*. For known issues in this release of Web Server, see “Known Issues” on page 18 in these release notes.

## Installation

You cannot install Web Server 7 to a directory that contains an earlier version of Web Server. You can however migrate the existing installation after installing Web Server 7 to a new directory.

## Migration

Migration between existing Web Server 7 installations is not supported.

Only Web Server 6.0 and 6.1 configurations can be migrated. Direct migration from a Web Server version lower than 6.0 is not supported. Older versions such as 4.x must first be migrated to Web Server 6.1, then to Web Server 7. For information about migrating from 4.x to 6.1, see the latest *Sun Java System Web Server 6.1 Installation and Migration Guide and Release Notes* at <http://docs.sun.com/app/docs/prod/s1.websrv61#hic>.

For detailed migration information, see the *Sun Java System Web Server 7 Installation and Migration Guide*. This guide contains information about migrating from version 4.1 to 7, and from version 6.x to 7.

## Product Documentation

Documents for Web Server 7 are available as online files in PDF and HTML formats. The following table lists the tasks and concepts described in each document.

Web Server 7 Technology Preview 1 includes a subset of the full product documentation. The full documentation will not be available until the product is publicly released.

**TABLE 3** Web Server 7 Documentation Roadmap

For Information About	See the Following
Late-breaking information about the software and documentation	<i>Release Notes</i>
Performing installation and migration tasks: <ul style="list-style-type: none"> <li>■ Installing Sun Java System Web Server and its various components, supported platforms, and environments</li> <li>■ Migrating from a previous version of Sun Java System Web Server</li> </ul>	<i>Installation and Migration Guide</i>



TABLE 3 Web Server 7 Documentation Roadmap	<i>(Continued)</i>
For Information About	See the Following
Performing the following administration tasks: <ul style="list-style-type: none"> <li>■ Using the Administration and CLI</li> <li>■ Configuring server preferences</li> <li>■ Using server instances</li> <li>■ Monitoring and logging server activity</li> <li>■ Using cert to secure the server</li> <li>■ Configuring access control to secure the server</li> <li>■ Using Java 2 Platform, Enterprise Edition (J2EE platform) security features</li> <li>■ Deploying applications</li> <li>■ Managing virtual servers</li> <li>■ Defining server workload, tuning and sizing the system to meet performance needs</li> <li>■ Searching the contents and attributes of server documents, and creating a text search interface</li> <li>■ Configuring the server for content compression</li> <li>■ Configuring the server for web publishing and content authoring using WebDAV</li> </ul>	<i>Administrator's Guide</i>
Using programming technologies and APIs to do the following: <ul style="list-style-type: none"> <li>■ Extend and modify Sun Java System Web Server</li> <li>■ Generate content dynamically, in response to client requests</li> <li>■ Modify the content of the server</li> </ul>	<i>Developer's Guide</i> (Not available for Technology Preview 1)
Creating custom Netscape Server Application Programmer's Interface (NSAPI) plug-ins	<i>NSAPI Developer's Guide</i> (Not available for Technology Preview 1)
Implementing servlets and JavaServer Pages™ (JSP) technology in Sun Java System Web Server	<i>Developer's Guide to Web Applications</i> (Not available for Technology Preview 1)
Editing configuration files	<i>Administrator's Configuration File Reference</i> (Not available for Technology Preview 1)
Tuning Sun Java System Web Server to optimize performance	<i>Performance Tuning, Sizing, and Scaling Guide</i> (Not available for Technology Preview 1)

For Information About	See the Following
Resolving issues with Web Server 7	<i>Troubleshooting Guide</i> (Not available for Technology Preview 1)
Deployment scenarios and examples	<i>Deployment Guide</i> (Not available for Technology Preview 1)

## Known Issues

This section lists the important known issues and limitations at the time of Web Server 7 Technology Preview 1 release.

### Installation

The following table lists the known issues in installation.

**TABLE 4** Known Issues in Installation

Problem ID	Description
6322990	<b>Non-root installation fails if /var/opt/sun/install directory does not exist.</b>  <b>Workaround:</b> When installing Web Server 7 on Linux as non-root, make sure the /var/opt/sun/install directory exists. If the directory does not exist, manually create this directory.
4988156	<b>Installing the stand-alone product over an existing JES installation and vice-versa is not supported</b> Installing the stand-alone product Web Server 7 over an existing Java Enterprise System (JES) installation is not supported. JES users of the Web Server must use the JES installer to upgrade to the newer version of the Web Server.

TABLE 4 Known Issues in Installation (Continued)

Problem ID	Description
6311607	<p><b>Installer crashes in CLI mode on Windows, if admin password is <math>\geq</math> 8 chars</b></p> <p>If the admin user password is greater than eight characters, then any invalid input to the following crashes the installer:</p> <ul style="list-style-type: none"> <li>■ Admin port</li> <li>■ Web Server port</li> <li>■ Administration UNIX ID</li> <li>■ Web Server UNIX ID</li> </ul> <p><b>Workaround:</b></p> <p>When installing Web Server 7 on Windows platform using the command-line interface (CLI), the admin password must be less than (&lt;) eight characters.</p>
6414481	<p><b>Web Server cannot be installed without installing compat-libstdc++.</b></p> <p><b>Workaround:</b></p> <p>On newer versions of Linux, such as , Fedora Core 3 and RedHat Enterprise Linux 4, install <code>compat-libstdc++</code> before installing Web Server 7.</p>

## Core

The following table lists the known issues in the core of the server.

TABLE 5 Known Issues in Core

Problem ID	Description
6361206	<p><b>The native stack size should be increased when the server is configured as a 64 bit platform</b></p> <p>When Web Server 7 is configured on a 64-bit platform, the thread pool native stack size must be at least 261144. If the stack size is less, the server will be unable to start successfully.</p>
-	<p>If third-party NSAPI plug-ins are used, 64-bit version of Web Server 7 fails to start successfully.</p> <p>To start the server in 64-bit, all NSAPI plug-ins (native-libraries) currently configured within the server needs to be in 64-bit.</p>

## Administration

The following table lists the known issues in the administration.

TABLE 6 Known Issues in Administration

Problem ID	Description
6369516	<p><b>Synchronization: Node goes down, instance dir removed, on starting again instance dir not created</b></p> <p>If a node becomes inactive, the instance directory gets removed. Restarting the node does not create an instance directory.</p>
6364924	<p><b>An agent can be registered to multiple admin servers which may cause a configuration conflict</b></p> <p>It is possible to register an agent to a second Administration Server without canceling the registration with the first Administration Server. However, this leads to the nodes becoming inaccessible to both the Administration Servers.</p> <p><b>Workaround:</b></p> <p>On each registration, restart the Administration Agent. The Administration Agent will be available to the most recent Administration Server it has registered to.</p>

## How to Report Problems and Provide Feedback

During the Sun Java System Web Server 7 Technology Preview 1 period, do not use the standard reporting mechanisms to report problems and provide feedback. Send email to [mailto:webserver7\\_ea@sun.com](mailto:webserver7_ea@sun.com).