

# Sun Java™ System Application Server 7 Release Notes

(Formerly Sun ONE Application Server)

Version 7, Update 7

Part Number 819-3233

June 2005

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These release notes contain important information available at the time of the Update 7 release of the Sun Java System Application Server, Version 7 product (formerly known as Sun™ Open Net Environment (ONE) Application Server).

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**NOTE** Throughout this document and other documents in the documentation set, the product is still referred to as Sun ONE Application Server.

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Enhancements, installation notes, known problems, and other late-breaking issues are addressed here. Read this document and associated documents before you begin using the Sun ONE Application Server 7, Update 7.

This document contains the following sections:

- [Release Notes Revision History](#)
- [About Sun ONE Application Server, Version 7, Update 7](#)
- [Important Information](#)
- [Bugs Fixed in This Release](#)
- [Known Issues and Limitations](#)
- [Redistributable Files](#)
- [How to Report Problems and Provide Feedback](#)
- [Additional Sun Resources](#)

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# Release Notes Revision History

This section lists the changes that have been made in these release notes after the initial release of the Sun ONE Application Server 7, product.

**Table 1** Revision History

Date	Description of Changes
June 2005	Initial release of Sun ONE Application Server 7, Update 7.

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## About Sun ONE Application Server, Version 7, Update 7

Sun ONE Application Server 7 provides a high-performance J2EE platform suitable for broad deployment of application services and web services.

This section includes:

- [What's New in the Sun ONE Application Server 7 Product](#)
- [Requirements and Limitations](#)

## What's New in the Sun ONE Application Server 7 Product

Information on what's new in the Sun ONE Application Server 7 product can be found in the *Sun ONE Application Server What's New* document at this location:

<http://docs.sun.com/db/prod/s1.asse>

For information on what has changed for this update, see [“Important Information” on page 5](#).

# Requirements and Limitations

Information on the platform requirements for the Sun ONE Application Server 7 Update 7 product can be found in the *Sun ONE Application Server Platform Summary* document at this location:

<http://docs.sun.com/db/prod/s1.asse>

The following topics are addressed in this section:

- [Platform Requirements](#)
- [Solaris Patches](#)
- [Solaris x86 Limitations](#)
- [Installing or Upgrading Japanese and Simplified Chinese Sun ONE Application Server](#)

## Platform Requirements

The following table summarizes the Sun ONE Application Server 7, Update 7 requirements. For complete platform information, see the *Sun ONE Application Server Platform Summary* document at this location:

<http://docs.sun.com/db/prod/s1.asse>

**Table 2** Platform Requirements for Sun ONE Application Server

Operating System	Architecture	Minimum Memory	Recommended Memory	Minimum Disk Space	Recommended Disk Space
UNIX					
Sun Solaris 8 or 9 for SPARC	32 and 64 bit	256 MB without Sun Java Studio	512 MB	250 MB free	500 MB free
Solaris x86, Version 9	32 bit	512 MB with Sun Java Studio			
Red Hat Linux 7.2, 7.3 Red Hat Enterprise Linux 2.1, 3.0					
Microsoft Windows					
Windows 2000 Advanced Server, SP2	Intel 32 bit	256 MB without Sun Java Studio	256 MB without Sun Java Studio	250 MB free	500 MB free
Windows 2000 Server, SP2		256 MB with Sun Java Studio	512 MB with Sun Java Studio		
Windows 2000 Professional, SP2					
Windows XP Professional					

## Solaris Patches

Solaris 8 users must have the Sun recommended patch cluster installed, available under “Recommended and Security Patches” at this location:

<http://sunsolve.sun.com/>

Patches that are absolutely required for Solaris 8 are 109326-06, 108993-23, and 110934 (any revision, for package based installation only). Without these patches, which the installer checks for, you won't be able to install or run the Sun ONE Application Server software. These patches are already contained in the latest recommended patch cluster.

## Solaris x86 Limitations

- Sun ONE Studio plug-in—The Sun Java Studio Plug-in is not part of this release because Sun Java Studio is not available on the Solaris x86 platform.
- Solaris support—The Solaris x86 release is only supported on Solaris 9, Update 2 onward, not on any earlier version of Solaris.
- The Java™ Smart Ticket Sample Application does not work on the Solaris x86 platform. The sample requires the Java 2 Platform, Micro Edition Wireless Toolkit (v1.0.4), which is not available for Solaris 9, x86.

## Installing or Upgrading Japanese and Simplified Chinese Sun ONE Application Server

Sun ONE Application Server 7, Update 7 does not have a separate release for Japanese or Simplified Chinese. If you have an existing installation you must upgrade to the English version of Update 7. Once you have upgraded to Update 7, your localized version of the software will contain all the latest fixed bugs.

Full instructions for installing and upgrading to Sun ONE Application Server, Update 7 are contained in the *Sun ONE Application Server Installation Guide* at this location:

<http://docs.sun.com/db/prod/s1.asse>

Different versions of the software have different upgrade paths.

### *Installing for the First Time*

If you have not previously installed Sun ONE Application Server 7, first install the Japanese or Simplified Chinese Sun ONE Application Server 7, Update 4, then upgrade to the English version of Update 7.

### *Upgrading from Update 3, Update 4, or Update 5*

To upgrade your Japanese or Simplified Chinese version from Update 3, Update 4, or Update 5, upgrade to the English version of Update 7. Upgrade instructions are provided in the Installation Guide.

### *Upgrading from Update 2 or Earlier*

If you have Sun ONE Application Server 7, Update 2 or an earlier version of Sun ONE Application Server 7, first upgrade to the Japanese or Simplified Chinese version of Sun ONE Application Server 7, Update 4, then upgrade to the English version of Update 7.

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## Important Information

This section covers the following topics:

- [Documentation](#)
- [Accessibility](#)
- [Upgrade Notes](#)

## Documentation

All Sun Microsystems product documentation can be found at this location:

<http://docs.sun.com/>

This section addresses the following topics:

- [Sun ONE Application Server 7 Documentation](#)
- [Referenced Documentation](#)

### Sun ONE Application Server 7 Documentation

For this early access of Sun ONE Application Server 7, Update 7, only these release notes have been updated. But you can refer to the Sun ONE Application Server 7, Update 6 documentation set for instructions on how to deploy and use the product.

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**NOTE**

For significant issues, a document might be revised. In this case, the revised version will be posted to this site. The date last updated is displayed with the copyright information in the HTML version of the document.

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The Sun ONE Application Server 7, Update 6 documents can be found at this location:

<http://docs.sun.com/db/prod/sl.asse>

The following list provides the part number and a brief description for each of the documents in the Sun ONE Application Server collection:

- *Product Overview*—(PN 817-2166-10) Describes Sun ONE Application Server 7, including the features available with each edition of the product.
- *Server Architecture*—(PN 817-2167-10) Presents diagrams and descriptions of server architecture; discusses benefits of the Sun ONE Application Server architectural approach.
- *What's New*—(PN 817-2165-10) Lists the new enterprise, developer, and operational features of Sun ONE Application Server 7.
- *Platform Summary REVISED*—(PN 819-1321) Provides a comprehensive, table-based summary of supported operating systems, JDBC drivers and databases, web servers, directory servers, browsers, and associated software packages.
- *Getting Started Guide*—(PN 817-2170-10) Describes how to get started with the Sun ONE Application Server 7 product. Focuses on initial developer exposure; is also suited for users evaluating the product.
- *Installation Guide*—(PN 817-5601-10) Provides instructions for installing or upgrading the Sun ONE Application Server software and its components, such as sample applications, the Administration interface, and the Sun™ Open Net Environment (ONE) Message Queue.
- *Migrating and Redeploying Server Applications*—(PN 817-2181-10) Provides instructions for migrating your applications to the new Sun ONE Application Server 7 programming model, specifically from iPlanet™ Application Server 6.x and from Netscape Application Server 4.0. Includes a sample migration.
- *Developer's Guide*—(PN 817-2171-10) The centerpiece of the developer's collection, this document provides general information about how to create J2EE applications intended to run on the Sun ONE Application Server that follow the open Java standards model for servlets, Enterprise JavaBeans™ (EJBs™), JavaServer Pages (JSPs), and other J2EE components. Topics include: J2EE application design, security, deployment, debugging, and creating lifecycle modules. A comprehensive Sun ONE Application Server glossary is included.
- *Developer's Guide to Web Applications*—(PN 817-2172-10) Describes how to use servlets and JavaServer Pages (JSPs) within J2EE applications, and how to use SHTML and CGI. Topics include results caching, JSP precompilation, session management, security, and deployment.

- *Developer's Guide to Enterprise Java Beans Technology*—(PN 817-2175-10) Describes how to develop and deploy various types of enterprise beans in the Sun ONE Application Server environment. Topics include container-managed persistence, read-only beans, and the XML and DTD files associated with enterprise beans.
- *Developer's Guide to J2EE Features and Services*—(PN 817-2177-10) Describes J2EE features such as Java Database Connectivity (JDBC), Java Naming and Directory Interface (JNDI), Java Transaction Service (JTS), Java Message Service (JMS), and JavaMail.
- *Developer's Guide to NSAPI*—(PN 817-2177-10) Describes how to create NSAPI plug-ins.
- *Developer's Guide to Web Services*—(PN 817-2174-10) Describes how to develop and deploy web services in the Sun ONE Application Server environment.
- *Developer's Guide to Clients*—(PN 817-2173-10) Describes how to develop and deploy Application Client Container (ACC) clients that access J2EE applications on Sun ONE Application Server 7.
- *Administrator's Guide*—(PN 817-3652-10) The centerpiece of the administrator's collection, this document provides information and instructions on the configuration, management, and deployment of the Sun ONE Application Server subsystems and components, from both the Administration interface and the command-line interface. A comprehensive Sun ONE Application Server glossary is included.
- *Administrator's Configuration File Reference*—(PN 817-2178-10) Describes the contents of the Sun ONE Application Server configuration files, such as the `server.xml` file.
- *Administrator's Guide to Security*—(PN 817-2179-10) Describes how to configure and administer security for the Sun ONE Application Server operational environment. Includes information on general security, certificates, and SSL/TLS encryption. HTTP server-based security is also addressed.
- *J2EE CA SPI Administrator's Guide*—(PN 817-2254-10) Describes how to configure and administer JCA SPI Implementation features for the Sun ONE Application Server environment. Topics include the Administration Tool, Pooling Monitor, deploying a JCA connector, and sample connectors and sample applications.
- *Performance Tuning Guide*—(PN 817-2180-10) Describes how and why to tune your Sun ONE Application Server to improve performance.
- *Error Messages Reference*—(PN 817-2182-10) Describes all Sun ONE Application Server error messages.
- *Manpages for Command-line Interface*—Provides XML pages written in manpage style for all command-line interface commands.
- *Manpages for Utilities*—Provides XML pages written in manpage style for all Sun ONE Application Server utility commands.

- Admin interface online help—Provides content-specific online help for the Sun ONE Application Server graphical Administration interface.

## Referenced Documentation

Documentation for other Sun ONE products is often referenced in the Sun ONE Application Server documentation.

### *Sun ONE Message Queue Documentation*

The Sun ONE Message Queue (also known as Sun Java System Message Queue) subsystem that is integrated with the Sun ONE Application Server has its own documentation that can be found at the following location:

<http://docs.sun.com/db?p=prod/s1.s1msgqu>

### *Sun Java Studio 5, Standard Edition Documentation*

The Sun Java Studio 5, Standard Edition product that you can use with the Sun ONE Application Server has its own documentation that can be found at the following location:

For Sun Java Studio 5, Standard Edition, Update 1 documentation:

<http://docs.sun.com/db/prod/java.studio>

## Accessibility

Sun ONE Application Server product documentation is provided in accessible formats that are readable by assistive technologies.

The product provides many accessibility features that enable you to read about and use the product in the manner that is most comfortable and convenient to you. These features include:

- Mnemonics and keyboard shortcuts
- Customizable fonts
- Customizable colors
- Customizable toolbars
- Customizable style sheets

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**NOTE**

The Solaris™ Operating System allows you to set window behavior using the Window Style Manager. When using mnemonics, the window behavior should be set to Click In Window To Make Active. If this option is not set, in some cases, a mnemonic can appear to fail.

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If you want to modify the Sun ONE Application Server HTML online help, you can go to the help directory and edit the style sheet which is located here:

```
server_root/lib/install/applications/admingui/adminGUI_war/help
```

Restart the Admin Server for changes to take effect.

## Upgrade Notes

The entire documentation has not been updated for Sun ONE Application Server, Update 7. However, the instructions for upgrading to Sun ONE Application Server, Update 6 are applicable to this release as well. They are contained in the *Sun ONE Application Server Installation Guide* at this location:

<http://docs.sun.com/db/prod/s1.asse>

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## Bugs Fixed in This Release

This section lists the customer-escalated issues resolved for the Sun ONE Application Server 7, Update 6 and Update 7.

**Table 3** Fixed Bugs in Sun ONE Application Server 7, Update 6 and Update 7

Bug Number	Description
6197275	New install of Sun ONE Application Server Update 5 creates the <code>cert7.db</code> instead of <code>cert8.db</code> certificate database.
2126023	Adding a principal to a security role and removing a principal from a security role did not work as expected after re-deployment.
2126024	Server-Parsed HTML led to the display of JSP sources with a trailing <code>'/'</code> in the URI.
2126025	Application Server Reverse SSL Proxy plugin was vulnerable to MITM attacks.
2126026	Missing synchronization in the connection pool could cause deadlock.
2126242	Session Timeout did not appear to be taking into account the last access time.
6240424	A default error page had a cross-site scripting vulnerability.

# Known Issues and Limitations

This section describes known problems and associated workarounds for the Sun ONE Application Server 7 product.

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**NOTE** If a problem statement does not specify a particular platform, the problem applies to all platforms.

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This information is organized into the following sections:

- [Installation, Upgrade, and Uninstallation](#)
- [Server Startup and Shutdown](#)
- [Database Driver](#)
- [Web Container](#)
- [EJB Container](#)
- [Container-Managed Persistence](#)
- [Message Service and Message-Driven Beans](#)
- [Java Transaction Service \(JTS\)](#)
- [Application Deployment](#)
- [Verifier](#)
- [Configuration](#)
- [Deployment Descriptors](#)
- [Monitoring](#)
- [Server Administration](#)
- [Sun ONE Studio 4 Plug-in](#)
- [Sample Applications](#)
- [ORB/IIOP Listener](#)
- [Internationalization \(i18n\)](#)
- [Documentation](#)

# Installation, Upgrade, and Uninstallation

This section describes known installation, upgrade, and uninstallation issues and the associated solutions.

ID	Summary
4403166	<p><b>On Microsoft Windows, package/path/application names longer than 255 characters will fail to deploy applications.</b></p> <p>On Microsoft Windows only, long package/path names are not supported because of the JDK™ limitation. During deployment, the deployment tool will try to extract class file from the archive. If the expanded name is more than 255 characters, the extraction will fail.</p> <ul style="list-style-type: none"> <li>• Example of a long application name: J2EE application name as <code>servlet_jsh_HttpServletRequestWrapper.ear</code></li> <li>• Example of a long package name: The servlet is located in the following package: <code>servlet_jsh_HttpServletRequestWrapper_1\ servlet_jsh_HttpServletRequestWrapper_servlet_war\WEB-INF\classes\tests\ javax_servlet_http_HttpServletRequestWrapperHttpServletRequestWrapperCon structorTestServlet.class</code></li> <li>• Example of a long path name: Sun ONE Application Server is installed as drive <code>\:&gt; Sun \ApplicationServer</code></li> </ul>
	<p><b>Solution</b></p> <p>Consider the following solutions:</p> <ol style="list-style-type: none"> <li>1. Make a shorter directory structure during installation. For example, <code>drive:&gt;App\</code> instead of the default <code>drive:\&gt;Sun\Apserver7</code>.</li> <li>2. Use the <code>create_instance</code> command to rename the instance to something shorter. For example, <code>/instance1/domain1/</code> could be changed to <code>/i/d</code>.</li> <li>3. Have shorter package names, path names, and application names.</li> </ol>
4687768	<p><b>On Solaris setup-SDK/JDK, an error occurs when installing in command-line mode on a machine without Xwindows.</b></p> <p>It is not possible to run the Sun ONE Application Server installer, even in command-line mode, on a hardened Solaris system which does not contain X Windows libraries. The installer will throw <code>java.lang.UnsatisfiedLinkError</code> while instantiating AWT objects used by SetupSDK/Webstart Wizard's installer framework.</p> <p><b>Solution</b></p> <ol style="list-style-type: none"> <li>1. Install X Windows support packages temporarily, removing them after installing the Sun ONE Application Server product.</li> <li>2. Install the Sun ONE Application Server packages using the <code>pkgadd</code> command and create the initial domain using <code>asadmin</code> commands.</li> </ol>

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ID	Summary
4719600	<p data-bbox="239 239 706 265"><b>Warning messages occur during installation.</b></p> <p data-bbox="239 282 963 309">During installation, some invalid error messages might occur. For example:</p> <pre data-bbox="239 326 1113 413">WARNING: Couldn't flush system prefs: java.util.prefs.BackingStoreException: Couldn't get file lock. WARNING: Could not lock System prefs.Unix error code -223460600.</pre> <p data-bbox="239 430 328 456"><b>Solution</b></p> <p data-bbox="239 473 1163 517">Ignore these warnings or, alternatively, you can create a system preferences directory (typically <code>/etc/.java/.systemPrefs</code>). This is normally done by the JDK install script.</p>
4737663	<p data-bbox="239 534 1192 560"><b>On Solaris, if you install both the package-based install and regular install, there is conflict.</b></p> <p data-bbox="239 578 1220 682">If you install both the package-based install (Solaris 9 bundled) and the mainstream installer version of the product, there are potential conflicts. The Sun ONE Message Queue broker for both of these installations will be shared, so if you don't uniquely name the domains and instances, you might see the following message when starting the second instance with the same domain/instance name:</p> <pre data-bbox="239 699 1021 760">SEVERE: JMS5024: JMS service startup failed. SEVERE: CORE5071: An error occurred during initialization</pre> <p data-bbox="239 777 1170 803">In particular, the default domain and instance names are the same for both of these installations.</p> <p data-bbox="239 821 328 847"><b>Solution</b></p> <p data-bbox="239 864 1149 907">Follow the instructions in the “JMS Administration” chapter of the <i>Sun ONE Application Server Administrator's Guide</i>.</p>
4742038	<p data-bbox="239 925 1206 977"><b>Sun ONE Application Server does not start if the install directory contains non alpha-numeric characters.</b></p> <p data-bbox="239 994 1220 1098">Sun ONE Application Server startup fails if the install directory contains characters such as #, spaces, or any other non alpha-numeric characters. In this case, the server log files are not created. The Sun ONE Application Server install directory can contain only the following characters: alphanumeric, - (dash) or _ (underscore). This also applies to entering existing Java 2 SDK directory during installation.</p> <p data-bbox="239 1116 328 1142"><b>Solution</b></p> <p data-bbox="239 1159 1206 1211">During installation, specify a directory where names contain only alphanumeric, dash, or underscore characters.</p>
4742828	<p data-bbox="239 1229 749 1255"><b>Silent installer is not checking user permissions.</b></p> <p data-bbox="239 1272 1220 1376">Although interactive installers (GUI or command-line) check for appropriate user permissions (admin user for Microsoft Windows platforms, and root user for Solaris package-based installation), this check is not done during silent installation. As a result, installation will fail later in the process because you will not have sufficient permissions to install packages (Solaris) or create services (Microsoft Windows).</p> <p data-bbox="239 1394 328 1420"><b>Solution</b></p> <p data-bbox="239 1437 906 1463">Make sure that silent installation is being run as the appropriate user.</p>

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ID	Summary
4741190	<b>For Solaris, Installer accepts JDK_LOCATION value even if the location contains an earlier version (earlier than Solaris 1.2).</b>  Sun ONE Application Server 7 requires a Java 2 SDK version greater than or equal to 1.4.0_02. However, on Solaris, if a user chooses to reuse an existing Java 2 SDK (less than version 1.2), the installer might not display a warning message. The installation might complete successfully, but the Sun ONE Application Server might not function properly. This is caused by having an existing JAVA_HOME in your environment.  <b>Solution</b>  Before starting the installation program, unset JAVA_HOME as follows:  (On ksh): <code>unset JAVA_HOME</code> (On csh): <code>unsetenv JAVA_HOME</code>
4742171	<b>Installing a development installation over an existing evaluation installation in silent mode does not report an error.</b>  Affects installers running in silent mode. If user attempts to install over an existing evaluation installation of Sun ONE Application Server 7 (in the same directory), silent installation does not report any errors and proceeds normally. Existing evaluation installation files are preserved.  <b>Solution</b>  Uninstall existing evaluation installations before installing a new development installation in the same location.
4742552	<b>Selecting Application Server and Sun ONE Studio 4 Enterprise Edition for Java components in the same installation session in command-line and silent mode does not work correctly.</b>  Affects development and operations installations. While running installation in command-line or silent mode, you can choose to install both Application Server and Support for Sun ONE Studio 4 Enterprise Edition for Java components during the same installation session (in GUI mode, these components are mutually exclusive). The installer does not process component dependency correctly and tries to install the Administration Client component instead of the selected Sun ONE Application Server component.  <b>Solution</b>  Simulating GUI mode, first install the Sun ONE Application Server component in command-line or silent mode, then run another installation and install the Support for Sun ONE Studio.

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ID	Summary
N/A	<p data-bbox="239 244 1222 317"><b>On Solaris, if the Sun ONE Application Server installer upgrades an existing Sun ONE Message Queue 3.0 to 3.0.1, the resulting installation will be removed during Sun ONE Application Server uninstallation.</b></p> <p data-bbox="239 340 1222 444">Affects Solaris development and operations installer. If an installed Sun ONE Message Queue 3.0 is detected on the system, you are given the option of automatically upgrading this installation to version 3.0.1. If this option is chosen, the resulting Sun ONE Message Queue 3.0.1 installation will be uninstalled during Sun ONE Application Server uninstallation.</p> <p data-bbox="239 465 325 486"><b>Solution</b></p> <p data-bbox="239 505 1158 552">To preserve the Sun ONE Message Queue installation after the Sun ONE Application Server is uninstalled:</p> <ol data-bbox="239 571 1169 703" style="list-style-type: none"><li data-bbox="239 571 861 591">1. Exit the installer when offered the automatic upgrade choice.</li><li data-bbox="239 611 1169 657">2. Upgrade Sun ONE Message Queue to version 3.0.1 according to Sun ONE Message Queue documentation.</li><li data-bbox="239 677 775 697">3. Run Sun ONE Application Server installation again.</li></ol>
4746410	<p data-bbox="239 723 1222 770"><b>On Solaris, when installing the Sun ONE Application Server in non-default locations, the package-based installer on Solaris does not check disk space in the correct locations.</b></p> <p data-bbox="239 791 1222 869">When attempting to install the Sun ONE Application Server on Solaris (using the package-based installer) in non-default locations, the installation program does not check for disk space in the specified target directory. Instead, it checks for disk space only in the default location (<code>/opt</code>).</p> <p data-bbox="239 890 325 911"><b>Solution</b></p> <p data-bbox="239 930 1222 1008">Before starting the installation, make sure that you have adequate disk space (85 MB) in <code>/opt</code> even if you do not plan to install in <code>/opt</code>. In addition, make sure you have adequate disk space (85 MB) in the target directory.</p>
4748404	<p data-bbox="239 1029 1222 1076"><b>On Microsoft Windows XP, cannot incrementally install sample applications and PointBase 4.2 components.</b></p> <p data-bbox="239 1097 1222 1201">This issue affects the Windows XP platform. If you try to incrementally install Sample Applications and/or PointBase 4.2 components over an installed Sun ONE Application Server component, the installer does not correctly detect the existing Sun ONE Application Server installation and reports <code>Application Server Not Found</code>. Installation does not proceed.</p> <p data-bbox="239 1222 325 1242"><b>Solution</b></p> <p data-bbox="239 1262 1222 1338">Install sample applications and PointBase 4.2 components together with the Sun ONE Application Server component. If the Sun ONE Application Server is already installed on the system, uninstall it and run installation again, this time selecting all necessary components.</p>

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ID	Summary
4748455	<p data-bbox="315 244 846 269"><b>Directory error occurs during generic silent install.</b></p> <p data-bbox="315 284 1228 361">This issue affects silent installation on all platforms. If the installer finds a problem with a given installation directory, the generic error message <code>Invalid Installation Directory</code> is reported. This error message covers the following situations:</p> <ul data-bbox="315 378 968 442" style="list-style-type: none"><li data-bbox="315 378 676 402">• Selected directory is not writable.</li><li data-bbox="315 418 968 442">• Selected directory string is empty or contains space characters.</li></ul>
4749033	<p data-bbox="315 545 1210 591"><b>On Microsoft Windows XP, cannot uninstall standalone admin client installation using uninstaller.</b></p> <p data-bbox="315 614 1293 690">This issue affects a standalone admin client installation on the Windows XP platform. If user tries to uninstall a standalone admin client through the provided uninstaller, uninstallation tries to uninstall an incorrect set of components and hang.</p>
4749666	<p data-bbox="315 708 1228 755"><b>Samples documentation is not published to initial server instance if Sample Application component has been incrementally installed.</b></p> <p data-bbox="315 770 1300 881">This issue affects the development and operations installer on all platforms. If sample applications are installed in a separate installation session over an installed Sun ONE Application Server, the sample documentation will not be published to the initial server instance and will not be accessible through the <code>http://hostname:port/samples</code> URL. However, documentation is installed on the file system and can be accessed locally at this location: <code>file:///install_root/samples/index.html</code></p> <p data-bbox="315 1124 408 1149"><b>Solution</b></p> <p data-bbox="315 1164 698 1189">Access samples documentation locally.</p>

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ID	Summary
4754256	<p data-bbox="228 234 1249 295"><b>On Solaris, Sun ONE Message Queue configuration files are not preserved during Sun ONE Message Queue upgrade performed by the installer.</b></p> <p data-bbox="228 303 1249 416">If an existing Sun ONE Message Queue 3.0 package has been detected on the system, the installer offers to upgrade this installation to version 3.0.1 which can be used by the Sun ONE Application Server. During this upgrade operation, the existing 3.0 Solaris packages is removed, resulting in the removal of the following configuration files:</p> <pre data-bbox="228 425 685 494">/etc/imag/passwd /etc/imag/accesscontrol.properties</pre> <p data-bbox="228 503 1249 564">If these files have been modified, those modifications will be lost and the resulting Sun ONE Message Queue 3.0.1 installation will contain the default configuration values.</p> <p data-bbox="228 572 328 598"><b>Solution</b></p> <p data-bbox="228 607 1249 703">Create a backup copy of any user-modified files and restore the backup copies of the files after the upgrade has been completed. For more details, consult <i>Sun ONE Message Queue 3.0 Installation Guide</i>.</p>

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ID	Summary
4754824	<p data-bbox="307 227 1336 262"><b>On Solaris, an installer error message occurs while running installation from a CD.</b></p> <p data-bbox="307 262 1336 470">When a volume is inserted into the CD-ROM drive, Solaris volume management assigns it the next symbolic name. For example, if two CD-ROMs match the default regular expression, they are named <code>cdrom0</code> and <code>cdrom</code>. Any that match the added regular expression would be named starting with <code>cdrom2</code>. This is documented on <code>vold.conf</code> man page. Every time you install the Sun ONE Application Server from the CD, the CD-ROM mount point appends a number after the label name. The first time the CD is mounted everything goes well. On subsequent mounts, the following error message occurs when the installer starts:</p> <pre data-bbox="307 470 1336 574">IOException:java.io.FileNotFoundException: /cdrom/appserver7 No such file or directory) while loading default flavormap.properties file URL:file:/cdrom/appserver7#4/AppServer7/pkg/jre/lib/flavormap.properties</pre> <p data-bbox="307 574 1336 609"><b>Solution</b></p> <p data-bbox="307 609 1336 644">Installer functionality is not affected in any way. However, the following workaround exists:</p> <ol data-bbox="307 644 1336 852" style="list-style-type: none"><li>1. Become the superuser by entering the command <code>su</code> and the root password at the command prompt, or log in as root. The command prompt changes to the pound sign (#).</li><li>2. If the <code>/cdrom</code> directory does not already exist, enter the following command to create it: <pre data-bbox="307 765 1336 800"># mkdir /cdrom</pre></li><li>3. Mount the CD-ROM drive.</li></ol> <p data-bbox="307 852 1336 921"><b>NOTE:</b> The <code>vold</code> process manages the CD-ROM device and performs the mounting. The CD-ROM might automatically mount onto the <code>/cdrom/cdrom0</code> directory.</p> <p data-bbox="307 921 1336 956">If running File Manager, a separate File Manager window displays the CD-ROM contents.</p> <ol data-bbox="307 956 1336 1373" style="list-style-type: none"><li>4. If the <code>/cdrom/cdrom0</code> directory is empty because the CD-ROM was not mounted, or if File Manager did not open a window displaying the contents of the CD-ROM, verify that the <code>vold</code> daemon is running by entering: <pre data-bbox="307 1060 1336 1095"># ps -e   grep vold   grep -v grep</pre></li><li>5. If <code>vold</code> is running, the system displays the process identification number of <code>vold</code>. If the system does not display anything, kill the daemon by typing the following: <pre data-bbox="307 1164 1336 1199"># ps -ef   grep vold   grep -v grep</pre></li><li>6. Stop the <code>vold</code> process by entering: <pre data-bbox="307 1251 1336 1286"># kill -15 process_ID_number</pre></li><li>7. Mount the CDRom manually: <pre data-bbox="307 1338 1336 1373"># mount -F hsfs -r ro /dev/dsk/cxytd0sz /cdrom/cdrom0</pre></li></ol> <p data-bbox="307 1373 1336 1442">where x is the CD-ROM drive controller number, y is the CD-ROM drive SCSI ID number, and z is the slice of the partition on which the CD-ROM is located.</p> <p data-bbox="307 1442 1336 1519">You have now mounted the CD-ROM drive. Refer to <i>Installing and Setting Up CD One on Solaris</i> for procedures on installation.</p>

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ID	Summary
4755165	<p data-bbox="239 244 1222 296"><b>On Microsoft Windows, Installer functionality is affected if administrator user credentials are supplied only when running setup.exe.</b></p> <p data-bbox="239 314 1222 444">This issue affects all installations on Microsoft Windows platforms. If a user is logged in without administrator privileges, he/she will be prompted to enter administrator user credentials while attempting to run <code>setup.exe</code>. If the correct credentials are entered, the installer checks for user privileges will be satisfied and installation will proceed. However, some installer functionality will be affected:</p> <ul data-bbox="239 461 1222 529" style="list-style-type: none"><li data-bbox="239 461 1222 487">• The installer will hang if the Browse button is selected on the installation directory selection screen.</li><li data-bbox="239 499 1222 529">• Program Group entries for the Sun ONE Application Server items might not be created.</li></ul>
4757687	<p data-bbox="239 626 1222 704"><b>On Solaris, incremental installation of the Sun ONE Application Server component on the system with previously installed Administration Client component might result in an unusable installation.</b></p> <p data-bbox="239 722 1222 939">This issue affects Solaris package-based installation on a Solaris platform. If user tries to install the Sun ONE Application Server component on the system where a standalone Administration Client component has already been installed, and selects a different installation directory from the one originally used for Administration Client installation, the resulting Sun ONE Application Server installation will be unusable even though the installation outcome is reported as successful. This is because the Administration Client Solaris packages will be detected as already installed on the system, and they will not be installed as the part of the Sun ONE Application Server installation. As a result, files critical for product functionality will be missing.</p> <p data-bbox="239 956 341 982"><b>Solution</b></p> <p data-bbox="239 999 1222 1052">Uninstall the standalone Administration Client before attempting to install the Sun ONE Application Server on the same Solaris system.</p> <p data-bbox="239 1069 1222 1154">Alternatively, an incremental installation can be attempted, but the same installation directory that has been used for the Administration Client installation should be used for the subsequent Sun ONE Application Server installation.</p>

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ID	Summary
4762118	<p data-bbox="315 244 1302 291"><b>On Solaris, installation fails if a selected custom configuration directory is a subdirectory of the selected installation directory and is called 'etc'.</b></p> <p data-bbox="315 314 1302 388">This issue affects Solaris package-based installation on a Solaris platform. If the following combination of custom directory locations has been selected, installation fail due to inconsistent group ownership information for the same directory:</p> <ul data-bbox="315 411 736 470" style="list-style-type: none"><li data-bbox="315 411 658 435">• Installation directory: <i>install_dir</i></li><li data-bbox="315 447 736 470">• Configuration directory: <i>install_dir/etc</i></li></ul> <p data-bbox="315 493 1229 539">The <code>pkgadd</code> log file in the <code>/var/sadm/install/logs</code> directory will contain following error message:</p> <pre data-bbox="315 562 943 609">pkgadd: ERROR: duplicate pathname /install_dir/etc pkgadd: ERROR: unable to process pkgmap</pre> <p data-bbox="315 631 408 656"><b>Solution</b></p> <p data-bbox="315 666 958 690">Select a custom configuration directory other than <i>install_dir/etc</i>.</p>
4724612	<p data-bbox="315 713 1258 760"><b>On Solaris SPARC and Linux, PointBase shell scripts fail if run by someone other than the installing user.</b></p> <p data-bbox="315 782 1229 829">This issue affects only the evaluation installation. All PointBase shell scripts are set to execute permission only for the installing user.</p> <p data-bbox="315 852 408 876"><b>Solution</b></p> <p data-bbox="315 887 1258 933">If users other than the person who installed the product need to execute these scripts, change the permissions to 0755.</p>
4762694	<p data-bbox="315 956 1302 1003"><b>On Solaris, the Sun ONE Message Queue package SUNWiqsup is not removed during Message Queue upgrade process.</b></p> <p data-bbox="315 1025 1302 1100">This is only an issue on Solaris. The Sun ONE Application Server 7 installation process involves installing Sun ONE Message Queue version 3.0.1. On Solaris, if Sun ONE Message Queue version 3.0 is detected, it is first uninstalled (after user confirmation) and the 3.0.1 version is installed.</p> <p data-bbox="315 1123 1302 1197">There is a minor cleanup issue where the Solaris installer does not remove one of the Solaris packages (<code>SUNWiqsup</code>) for Sun ONE Message Queue 3.0 as part of this upgrade process. The presence of this package is harmless and does not affect Sun ONE Message Queue or Sun ONE Application Server 7.</p> <p data-bbox="315 1220 408 1244"><b>Solution</b></p> <p data-bbox="315 1255 1122 1279">Manually remove the <code>SUNWiqsup</code> package using the following command (as root):</p> <pre data-bbox="315 1302 551 1326"># pkgrm SUNWiqsup</pre>

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ID	Summary
4890289	<p data-bbox="239 239 1115 265"><b>On Window 2000 Pro, the uninstaller is not able to find the JDK to run uninstallation.</b></p> <p data-bbox="239 282 915 309">On Windows 2000 Pro, uninstallation fails with the following message:</p> <p data-bbox="239 326 1186 439">The uninstaller could not locate a suitable j2sdk to run the uninstalation program. Run the uninstalation again with the -javahome option set to the directory in which j2sdk 1.4.0_02 or greater is installed. Press Enter to exit.</p> <p data-bbox="239 456 329 482"><b>Solution</b></p> <p data-bbox="239 499 579 526">Use the -javahome JDK location.</p>
5017630	<p data-bbox="239 543 1200 569"><b>When upgrading on Windows, an error is displayed and the upgrade fails if SNMP is running.</b></p> <p data-bbox="239 586 329 612"><b>Solution</b></p> <p data-bbox="239 630 644 656">Stop the SNMP Service before upgrading:</p> <ol data-bbox="239 664 793 769" style="list-style-type: none"> <li data-bbox="239 664 793 690">1. From the Control Panel, choose Administrative Tools.</li> <li data-bbox="239 708 448 734">2. Choose Services.</li> <li data-bbox="239 751 711 777">3. Scroll down to the SNMP Service and stop it.</li> </ol>
5018162	<p data-bbox="239 786 1222 838"><b>On Linux, two Message Queue packages are installed if you are doing a full installation and if a qualified Message Queue is already installed.</b></p> <p data-bbox="239 855 329 881"><b>Solution</b></p> <p data-bbox="239 899 1208 1029">Due to a bug in the Linux rpm utility in 4.2.1.xx, the installed Sun ONE Message Queue (identified as <code>img</code>) rpm is not recognized. Because of this problem, the Sun ONE Application Server installer will install a second version of the Sun ONE Message Queue rpm. To work around this, either install the 4.2.0.69 version of rpm on your system or uninstall Message Queue before installing the application server.</p> <p data-bbox="239 1046 1222 1098">Typically 4.2.1.xx version of rpm is present in Red Hat Enterprise Linux Advanced Server 3.0 unless the rpm package was upgraded on prior versions of the Linux system.</p>
5034338	<p data-bbox="239 1116 922 1142"><b>On Linux, upgraded packages are not removed by the uninstaller.</b></p> <p data-bbox="239 1159 329 1185"><b>Solution</b></p> <p data-bbox="239 1203 651 1229">Remove the packages manually by typing:</p> <pre data-bbox="287 1246 679 1267">rpm -e --nodeps SUNWas* packages</pre>

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ID	Summary
5050621	<p data-bbox="315 239 1290 374"><b>On Linux and Solaris platforms, if Sun ONE Application Server 7 Update 3 was installed as a part of Sun Java Enterprise 2004Q2, and you then upgrade the Sun ONE Application Server, a problem appears. The subsequent attempt to create a new server instance and to install Sun Java System Identity Server 2004Q2 with SSL enabled Directory Server will fail and the newly created server instance will crash with a SIGSEGV error upon restart.</b></p> <p data-bbox="315 392 408 414"><b>Solution</b></p> <p data-bbox="315 432 1300 510">For the instance of the application server created after upgrading Sun ONE Application Server, edit the server instance's <code>server.xml</code> file and enter the correct location for the <code>jss3.jar</code> in <code>server-classpath</code> as follows:</p> <p data-bbox="315 527 536 550">For the Linux platform:</p> <p data-bbox="315 567 579 590">Change the following lines:</p> <pre data-bbox="362 607 1053 664">&lt;java-config java-home="/usr/jdk/entsys-j2se" server-classpath="/usr/share/lib/mps/secv1/jss3.jar &lt;---</pre> <p data-bbox="315 682 351 704">To:</p> <pre data-bbox="362 722 1100 779">&lt;java-config java-home="/usr/jdk/entsys-j2se" server-classpath="//opt/sun/private/share/lib/jss3.jar &lt;----</pre> <p data-bbox="315 796 1196 819">To prevent this problem from occurring in future, modify the following template files as well:</p> <pre data-bbox="315 836 1118 904">\${APPSERVER_INSTALL_DIR}/lib/install/template/server.xml.template.admin \${APPSERVER_INSTALL_DIR}/lib/install/template/server.xml.template</pre> <p data-bbox="315 921 708 944">In these template files, change the lines:</p> <pre data-bbox="362 961 993 1029">&lt;java-config java-home="%%JAVA_HOME%%" server-classpath="/usr/share/lib/mps/secv1/jss3.jar</pre> <p data-bbox="315 1046 351 1069">To:</p> <pre data-bbox="362 1086 1018 1154">&lt;java-config java-home="%%JAVA_HOME%%" server-classpath="/opt/sun/private/share/lib/jss3.jar</pre>

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ID	Summary
5050621 (Continued)	<p>For the Solaris platform:</p> <p>Modify the <code>server.xml</code> file:</p> <ol style="list-style-type: none"> <li>1. Open the <code>server.xml</code> file for editing. The file is found at: <code>app_server_instance_dir/config/server.xml</code>.</li> <li>2. Add the location of the <code>jss3.jar</code> in <code>server-classpath</code>: <code>server-classpath=/usr/share/lib/mps/secv1/jss3.jar</code></li> </ol> <p>Edit the <code>startserv</code> script's <code>LD_LIBRARY_PATH</code>:</p> <ol style="list-style-type: none"> <li>1. Open the <code>startserv</code> script for editing. The script is found at <code>app_server_instance_dir/bin/startserv</code>.</li> <li>2. Add <code>/usr/lib/mps/secv1</code> to the <code>LD_LIBRARY_PATH</code>.</li> </ol> <p>To prevent this problem from occurring in future, modify the following template files as well:</p> <ul style="list-style-type: none"> <li>• <code>install_dir/lib/install/template/server.xml.template.admin</code></li> <li>• <code>install_dir/lib/install/template/server.xml.template</code></li> <li>• <code>install_dir/lib/install/template/start</code></li> </ul> <p>In these template files, change the lines:</p> <pre>&lt;java-config java-home="%%%JAVA_HOME%%%" server-classpath="/usr/lib/mps/secv1/jss3.jar</pre> <p>To:</p> <pre>&lt;java-config java-home="%%%JAVA_HOME%%%" server-classpath="/usr/lib/mps/secv1/jss3.jar</pre>
N/A	<p><b>On Red Hat Enterprise Linux AS 3.0 you must install <code>compat-libstdc++</code> (standard C++ libraries for backwards compatibility) before installing Sun ONE Application Server.</b></p> <p><b>Solution</b></p> <p>Install <code>compat-libstdc++</code> before installing Sun ONE Application Server. These libraries are included on the Red Hat Enterprise Linux AS 3.0 CD set.</p>
N/A	<p><b>Installing Sun ONE Application Server on Windows may give the following message:</b></p> <p><b>"Error writing native components to disk. Aborting wizard"</b></p> <p><b>Solution</b></p> <ol style="list-style-type: none"> <li>1. If you have a file named <code>C:\Documents</code>, it interferes when processing the system property <code>user.home</code> (typically points to <code>C:\Documents and Settings\your_name</code>). Remove or rename <code>C:\Documents</code>.</li> <li>2. Additionally, the environment variable <code>TEMP</code> must be set and must point to an existing writable directory.</li> </ol>

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ID	Summary
5063872	<b>The <code>app_server_install/samples/common.properties</code> file is overwritten with null values when you upgrade Sun ONE Application Server 7 using the upgrade installer.</b>
	<b>Solution</b>
	Back up the <code>common.properties</code> file before you upgrade to the latest Sun ONE Application Server 7, or add the values to <code>common.properties</code> manually after upgrading.
	Sample <code>common.properties</code> file for the Microsoft Windows platform:
	<pre>com.sun.aas.javaRoot=C\:/Sun/AppServer7/jdk admin.host=&lt;machinename&gt; admin.port=4848 com.sun.aas.imqLib=C\:/Sun/AppServer7/imq/lib com.sun.aas.installRoot=C\:/Sun/AppServer7 admin.user=admin #admin password will not be saved as default. User can enter it and save it manually. #admin.password= sunone.instance=server1 com.sun.aas.webServicesLib=C\:/Sun/AppServer7/share/lib com.sun.aas.pointbaseRoot=C\:/Sun/AppServer7/pointbase sunone.instance.port=&lt;port&gt; sunone.instance=server1 admin.user=admin admin.port=4848</pre>
	Sample <code>common.properties</code> file for the Linux platform:
	<pre>com.sun.aas.pointbaseRoot=/export/appserver7ur5/pointbase com.sun.aas.webServicesLib=/export/appserver7ur5/share/lib com.sun.aas.imqLib=/opt/imq/lib com.sun.aas.installRoot=/export/appserver7ur5 com.sun.aas.javaRoot=/usr/java/j2sdk1.4.2_04 #admin password will not be saved as default. User can enter it and save it manually. #admin.password= admin.host=&lt;machinename&gt; sunone.instance=server1 sunone.instance.port=80 admin.user=admin admin.port=4848</pre>

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ID	Summary
<b>5063872</b> (Continued)	<p data-bbox="239 239 778 269">Sample <code>common.properties</code> file for the Solaris platform:</p> <pre data-bbox="239 282 1249 621">com.sun.aas.pointbaseRoot=/opt/SUNWappserver7/pointbase com.sun.aas.webServicesLib=/usr/share/lib com.sun.aas.imqLib=/usr/share/lib/imq com.sun.aas.installRoot=/opt/SUNWappserver7 com.sun.aas.javaRoot=/usr/j2se #admin password will not be saved as default. User can enter it and save it manually. #admin.password= admin.host=&lt;machinename&gt; sunone.instance=server1 sunone.instance.port=81 admin.user=admin admin.port=4848</pre>

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ID	Summary
6172916	<p data-bbox="315 239 1302 291"><b>Sun ONE Application Server fails to start after you use the upgrade installer to upgrade the Sun ONE Application Server.</b></p> <p data-bbox="315 309 818 335">On the Solaris platform, the following error appears:</p> <pre data-bbox="315 352 1286 404">SEVERE (14394): JMS5024: JMS service startup failed. CORE5071: An error occurred during initialization</pre> <p data-bbox="315 418 803 444">On the Linux platform, the following error appears:</p> <pre data-bbox="315 461 1240 539">cp: cannot stat `/etc/opt/imq/passwd': No such file or directory cp: cannot stat `/etc/opt/imq/accesscontrol.properties': No such file or directory Error backing up!</pre> <p data-bbox="315 555 1302 633">This problem appears because the upgrade installer does not check which version of Message Queue is installed. It automatically installs Sun ONE Message Queue 3.0.1 SP3, which is shipped with Sun ONE Application Server 7.</p> <p data-bbox="315 651 1302 703">If Sun Java System Message Queue 3.5 is installed on the machine, the upgrade installer downgrades it to Message Queue 3.0.1SP3.</p> <p data-bbox="315 720 1302 798">On the Microsoft Windows platform, the problem only occurs if Sun Java System Message Queue 3.5 is installed in the same directory in which the Sun ONE Application Server installer installs. No error appears.</p> <p data-bbox="315 814 406 840"><b>Solution</b></p> <p data-bbox="315 857 743 883">If you have not yet run the upgrade installer:</p> <ol data-bbox="315 899 1302 1142" style="list-style-type: none"><li data-bbox="315 899 1302 951">1. After downloading the product and untarring the binaries, go to the <i>untarred_location</i>/sun-appserver7/upgrade directory.</li><li data-bbox="315 966 1302 1142">2. Open the <code>package-list</code> file and remove all the package names associated with Message Queue:<ul data-bbox="315 1003 1302 1142" style="list-style-type: none"><li data-bbox="315 1003 786 1029">• On the Microsoft Windows platform: <code>imq.zip</code></li><li data-bbox="315 1046 1248 1098">• On the Solaris Sparc and x86 platforms: <code>SUNWiqdoc</code>, <code>SUNWiqfs</code>, <code>SUNWiqjx</code>, <code>SUNWiqr</code>, <code>SUNWiqu</code>, <code>SUNWiquc</code>, <code>SUNWiququm</code>, and <code>SUNWiqqlpl</code></li><li data-bbox="315 1116 615 1142">• On the Linux platform: <code>imq</code>.</li></ul></li></ol> <p data-bbox="315 1157 779 1183">If you already upgraded using upgrade installer:</p> <p data-bbox="315 1199 1015 1225">For package-based installations on the Solaris Sparc and x86 platforms:</p> <ol data-bbox="315 1241 1302 1420" style="list-style-type: none"><li data-bbox="315 1241 1302 1293">1. At the command prompt, remove the Message Queue instances by typing <code>rm -rf /var/imq/instances</code>.</li><li data-bbox="315 1308 1302 1378">2. Use <code>pkgrm</code> to remove the following packages: <code>SUNWiqdoc</code>, <code>SUNWiqfs</code>, <code>SUNWiqjx</code>, <code>SUNWiqr</code>, <code>SUNWiqu</code>, <code>SUNWiquc</code>, <code>SUNWiququm</code>, and <code>SUNWiqqlpl</code></li><li data-bbox="315 1394 1302 1420">3. Use <code>pkgadd</code> to reinstall the correct versions of the packages you removed in the previous step.</li></ol>

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ID	Summary
6172916 (Continued)	<p>For Linux RPM installations:</p> <ol style="list-style-type: none"> <li>1. Remove the Message Queue instance by typing <code>rm -rf /var/imq/instances</code>.</li> <li>2. Remove the Message Queue installation by typing <code>rpm -e imq</code>.</li> <li>3. Install the correct version of Message Queue by typing <code>rpm -i rpm_location/imq-xxx.rpm</code> where <code>xxx</code> is the correct version of Message Queue.</li> </ol> <p>For Microsoft Windows installations, and for zip, tar, and evaluation installations on all platforms:</p> <ol style="list-style-type: none"> <li>1. Remove the Message Queue installation by typing <code>rmdir app_server_install_dir/imq</code>.</li> <li>2. Unzip the correct version of Message Queue from its downloaded location and run the installer.</li> </ol>
6211610	<p><b>For Solaris SPARC and x86 platforms, when upgrading from Sun ONE System Application Server Platform Edition 7 Solaris 9 OS Update 3 and above (the Application Server component in the Solaris 9 Operating System), information about existing domains is lost during the upgrade.</b></p> <p><b>Solution</b></p> <p>Before upgrading, back up the file <code>/etc/appserver/domains.bin</code>. Once you complete the upgrade, restore the backed-up copy of the file.</p>
6283084	<p><b>The text in the Application Server 7.0, Update 7, Software License Agreement shows Update 6 instead of Update 7.</b></p>

## Server Startup and Shutdown

This section describes the known startup and shutdown issues and associated solutions.

### Behavior of Log Service create-console Attribute

On Microsoft Windows, when the `create-console` attribute of the `log-service` element in `server.xml` is set to `true` (the default setting), a window displaying the content of the server event log is displayed on the desktop. By design, closing this window does not result in a persistent termination of the App Server instance process. Closing the console window terminates the `appservd.exe` process, but the watchdog process (`appservd-wdog.exe`) immediately restarts the server instance process.

For developers, closing the event log window of an instance can be used as a means of quickly restarting the Application Server instance.

However, to stop the Application Server instance completely (along with the companion watchdog process), use one of the following methods:

- Administration interface—Start->Programs->Sun ONE Application Server 7->Stop Application Server

- **Command-line interface**—`asadmin stop-instance --local=true instance name`

This is the local form of the `stop-instance` command. You can also use the remote form. See the `asadmin stop-instance help` for more information.

- **Admin Console**—Select server instance, and click Stop.

Using the Admin Console, you can enable/disable the console event log window by modifying the Create Console setting under the Logging tab of the App Server instance.

ID	Summary
4725893	<p><b>On Solaris, License expiration information is not shown.</b></p> <p>Affects Solaris SPARC evaluation licenses. Warning information relating to imminent expiration of license (within 14 days or less of expiration) would not be reported through the command-line interface and browser-based interfaces. The warnings would, however, appear in the server log files.</p> <p><b>Solution</b></p> <p>Check the server log files.</p>
4738648	<p><b>JMS service/Sun ONE Application Server startup fails.</b></p> <p>If the JMS provider (Sun ONE Message Queue broker) has a large number of undelivered persistent messages, a Sun ONE Application Server initialization failure might occur due to following problems:</p> <ol style="list-style-type: none"> <li>1. As it tries to load all the pending messages, the MQ broker might run out of memory and abort.</li> </ol> <p><b>Solution</b></p> <p>Use more Java heap space for the MQ broker process. To do this, set the <code>Start Arguments</code> attribute of the JMS service to <code>-vmargs -Xmx256m</code>.</p> <p>The procedure for setting this attribute is described in the “Using the JMS Service” chapter of the <i>Sun ONE Application Server Administrator’s Guide</i>.</p> <ol style="list-style-type: none"> <li>2. If the MQ broker cannot complete its initialization sequence within a certain period of time, the Sun ONE Application Server times out and aborts.</li> </ol> <p><b>Solution</b></p> <p>Increase the value of the JMS service <code>Start Timeout</code> attribute. The procedure for setting this attribute is described in the “Using the JMS Service” chapter of the <i>Sun ONE Application Server Administrator’s Guide</i>.</p>

ID	Summary
4762420	<p data-bbox="237 241 1249 265"><b>Firewall rules might cause Sun ONE Application Server startup failures.</b></p> <p data-bbox="237 282 1249 444">If you have a personal firewall installed, you might experience this problem. The presence of strict firewall rules on the same machine as a Sun ONE Application Server installation might cause startup failures of the Admin Server and App Server instances. Specifically, the Admin Server and App Server instances attempt to establish local connections within the Sun ONE Application Server environment. Since these connection attempts access ports using the host name of the system rather than localhost, local firewall rules might block such attempts.</p> <p data-bbox="237 461 1249 623">The local firewall might also inadvertently generate alerts saying that either the "Portal of Doom Trojan" attack (for example, TCP connection attempts on port 3700) or similar attacks have occurred when, in fact, such access attempts have been made by the Sun ONE Application Server and are in no way a security threat to your machine. Under some conditions, the port number which the Sun ONE Application Server uses for various local communications might overlap with port numbers used in known popular attacks. Some symptoms of this problem:</p> <ul data-bbox="237 640 1249 861" style="list-style-type: none"> <li data-bbox="237 640 1249 791">• An attempt to start the Sun ONE Application Server using the Microsoft Windows program group item "Start Application Server" fails with this message:  <pre data-bbox="279 708 1036 791">Could not start the instance: domain1:admin-server server failed to start: abnormal subprocess termination ...</pre></li> <li data-bbox="237 808 1249 861">• The administrative and server instance log files contain connection exceptions followed by this message: CORE3186: Failed to set configuration</li> </ul> <p data-bbox="237 878 329 902"><b>Solution</b></p> <p data-bbox="237 920 1249 970">Modify the firewall policy to allow the Sun ONE Application Server to make connection attempts to ports on the local system.</p> <p data-bbox="237 987 1249 1038">To avoid inaccurate alerts concerning possible attacks, either modify the relevant rules or change the conflicting port number(s) used by the Sun ONE Application Server.</p> <p data-bbox="237 1055 1249 1105">To determine the port numbers used by the Admin Server and App Server instances, see the <code>server.xml</code> file in the following location of your Sun ONE Application Server installation:</p> <pre data-bbox="279 1123 979 1173">domain_config_dir/domain1/admin-server/config/server.xml domain_config_dir/domain1/server1/config/server.xml</pre> <p data-bbox="237 1190 1249 1215">where <code>domain_config_dir</code> is the location of your initial server configuration. For example:</p> <pre data-bbox="237 1232 1115 1312">Microsoft Windows: install_dir/domains/... Solaris 9 and above integrated install: /var/appserver/domains/... Solaris 8, 9 and above unbundled install: /var/opt/SUNWappserver7/domains/...</pre> <p data-bbox="237 1329 1249 1432">Look for the port settings in the <code>&lt;iiop-listener&gt;</code> and <code>&lt;jms-service&gt;</code> elements. You can either change these port numbers to other unused port numbers, or you can modify your firewall policy to allow connection attempts from clients on the local machine to these port numbers on the same machine.</p>

ID	Summary
4780076	<p data-bbox="315 244 1330 296"><b>On Solaris, the Sun ONE Application Server starts all instances as root thereby allowing non-root users to have root access.</b></p> <p data-bbox="315 314 1330 366">There are several issues associated with application server startup when the Sun ONE Application Server is installed as part of a Solaris installation (bundled):</p> <ul data-bbox="315 383 1330 609" style="list-style-type: none"> <li data-bbox="315 383 1330 487">• All application server and administrative server instances are started automatically during Solaris system startup. In many environments, not all the instances are expected to be started automatically during Solaris system startup. Starting every defined instance can adversely impact the memory available on a system.</li> <li data-bbox="315 505 1330 609">• When application server instances and administrative server instances are started automatically, the startup script for each instance is executed as root. Execution of non-root owned instance startup scripts can enable non-root users access to the root user through modification of the instance-level startup scripts.</li> </ul> <p data-bbox="315 626 449 652"><b>Background</b></p> <p data-bbox="315 670 1330 800">During installation of the Sun ONE Application Server as part of a Solaris installation, the <code>/etc/init.d/appserv</code> script and symbolic links to the <code>S84appserv</code> and <code>K05appserv</code> scripts in the <code>/etc/rc*.d/</code> directories are installed. These scripts cause all the application server and administrative server instances defined as part of the application server installation to be started and stopped automatically during Solaris system startup and shutdown.</p> <p data-bbox="315 817 1053 843">The <code>/etc/init.d/appserv</code> script contains the following section of code:</p> <pre data-bbox="315 869 799 1121">... case "\$1" in 'start')     /usr/sbin/asadmin start-appserv     ;; 'stop')     /usr/sbin/asadmin stop-appserv     ;; ... </pre> <p data-bbox="315 1138 1330 1329">Running the <code>asadmin start-appserv</code> command causes the administration server instance and all application server instances defined in all administrative domains to be started during Solaris system startup. Since the system startup and shutdown scripts are executed as root, the startup script for each application server and administrative server instance is also executed as root. The instance-level startup script is named <code>startserv</code> and is located at <code>instance-dir/bin/startserv</code>. Since instances might be owned by users other than root, the <code>startserv</code> scripts could be modified by the non-root user to execute commands as the root user.</p> <p data-bbox="315 1347 1330 1449">In cases where an instance is using a privileged network port, the instance's <code>startserv</code> script must be executed as root. However, in these cases, "run as user" is typically set in the instance's configuration to force the instance to run as the specified user after the instance has been initially started by the root user.</p>

ID	Summary
<b>4780076</b> (Continued)	<p data-bbox="237 239 1253 274"><b>Solution</b></p> <p data-bbox="237 279 1253 309">Perform one of the following workarounds depending on your environment:</p> <ul data-bbox="237 319 1253 649" style="list-style-type: none"> <li data-bbox="237 319 1253 406">• If your environment does not require all application server and administrative server instances to be started as root, then you should comment out execution of the <code>asadmin start-appserv</code> and <code>asadmin stop-appserv</code> commands in the <code>etc/init.d/appserv</code> script.</li> <li data-bbox="237 416 1253 553">• If your environment requires starting either specific administrative domains (including the administrative server instance and all application server instances of each domain) or specific instances within one or more administrative domains, then you should either modify the <code>/etc/init.d/appserv</code> script to start the domains and/or instances of interest or define new <code>/etc/rc*.d/</code> scripts that suit the needs of your environment.</li> <li data-bbox="237 564 1253 649">• Starting a specific domain. If you require to start either an administrative domain or specific instances as non-root users, then you should ensure that the <code>su</code> command with the <code>-c</code> option is used to start the domains and/or instances of interest.</li> </ul> <p data-bbox="237 661 1253 690"><b>Examples</b></p> <p data-bbox="237 701 1253 788">Starting a specific administrative domain—If you want to start the administrative server instance and all application server instances of a specific administrative domain as the root user, you can modify the <code>/etc/rc*.d/</code> scripts as follows:</p> <pre data-bbox="237 800 1253 1078"> ... case "\$1" in 'start')     /usr/sbin/asadmin start-domain --domain production-domain     ;; 'stop')     /usr/sbin/asadmin stop-domain --domain production-domain     ;; ...           </pre>

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ID	Summary
4780076 (Continued)	<ul style="list-style-type: none"><li data-bbox="314 225 1336 295">• If you want to start specific application server instances as a non-root user, modify the <code>/etc/rc*.d/</code> scripts to use the <code>su</code> command with the <code>-c</code> option:<pre data-bbox="314 312 1336 763">... case "\$1" in 'start')     su - usera -c "/usr/sbin/asadmin start-instance --domain test-domain instance-a"     su - userb -c "/usr/sbin/asadmin start-instance --domain test-domain instance-b"     ;; 'stop')     su - usera -c "/usr/sbin/asadmin stop-instance --domain test-domain instance-a"     su - userb -c "/usr/sbin/asadmin stop-instance --domain test-domain instance-b"     ;; ... </pre></li></ul> <p data-bbox="314 772 1336 840">See the <i>Sun ONE Application Server Administrator's Guide</i> for more information on the startup and shutdown commands available through the <code>asadmin</code> command line interface.</p>

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# Database Driver

This section describes the known database driver issues and associated solutions.

ID	Summary
4700531	<p data-bbox="239 388 758 411"><b>On Solaris, an ORACLE JDBC driver error occurs.</b></p> <p data-bbox="239 430 1225 508">This new Java Database Connectivity (JDBC) driver is for Oracle (R) working with JDK1.4. The problem is caused by a combination of the Oracle 9.1 database and ojdbc14.jar. Applying the patch will fix the problem on Solaris 32-bit machine, running an Oracle 9.0.1.3 database.</p> <p data-bbox="239 527 325 550"><b>Solution</b></p> <p data-bbox="239 569 1182 618">Obtain and apply the patch to your server from the Oracle Web site for Bug 2199718. Perform the following steps:</p> <ol data-bbox="239 637 925 899" style="list-style-type: none"> <li>1. Go to the Oracle web site.</li> <li>2. Click the 'patches' button.</li> <li>3. Type 2199718 in the patch number field.</li> <li>4. Click the 32-bit Solaris OS patch.Go to <a href="http://Metalink.oracle.com">Metalink.oracle.com</a>.</li> <li>5. Click patches.</li> <li>6. Under patch number, enter 2199718.</li> <li>7. Click the 32 bit Solaris OS patch.</li> </ol>
4707531	<p data-bbox="239 921 1153 970"><b>On Solaris, accessing an Oracle 9.1 database with an Oracle 9.2 Client might cause data corruption.</b></p> <p data-bbox="239 989 1225 1038">If you use an Oracle (R) 9.2 client to access an Oracle 9.1 database, data corruption might occur when a number column follows a timestamp column.</p> <p data-bbox="239 1057 1225 1135">The problem might be caused by using the ojdbc14.jar file with an Oracle 9.1 database. Applying the patch might assist in addressing the situation on Solaris 32-bit machines, running an Oracle 9.1 database. This JDBC driver is for Oracle working with JDK1.4.</p> <p data-bbox="239 1154 325 1177"><b>Solution</b></p> <p data-bbox="239 1196 1225 1244">Obtain the patch that Oracle might make available from the Oracle web site for Bug 2199718 and apply it to your server.</p>

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ID	Summary
4991065	<p data-bbox="307 227 1336 262"><b>Oracle JDBC drivers must be configured properly to be compliant with J2EE 1.3.</b></p> <p data-bbox="307 262 1336 296"><b>Solution</b></p> <p data-bbox="307 296 1336 331">Use the following configuration for Type 2 and Type 4 drivers:</p> <ol data-bbox="307 331 1336 505" style="list-style-type: none"><li data-bbox="307 331 1336 366">1. Use the JDBC from 9.2.0.3 or later.</li><li data-bbox="307 366 1336 401">2. The Oracle database needs to have <code>compatible=9.0.0.0.0</code> in its parameter (<code>init.ora</code>) file.</li><li data-bbox="307 401 1336 435">3. Use the <code>ojdbc14.jar</code> file.</li><li data-bbox="307 435 1336 505">4. Configure the Sun ONE Application Server to define the following JVM property:</li></ol> <pre data-bbox="307 505 1336 539">-Doracle.jdbc.J2EE13Compliant=true</pre> <p data-bbox="307 539 1336 659">In addition, for Type-2 drivers both the <code>ORACLE_HOME</code> and <code>LD_LIBRARY_PATH</code> (which must include <code>\$ORACLE_HOME/lib</code>) need to be defined in the environment that the Sun ONE Application Server is started in. For example, add them to the <code>asenv.conf</code> file and ensure they are exported.</p>

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ID	Summary
5022904	<p data-bbox="239 239 1249 291"><b>Sun ONE Application Server has number of connections growing after idle time out with DB2 Type 2 Driver</b></p> <p data-bbox="239 309 1249 387">Scenario: When the DB2 database is configured with the wrong <code>datasource</code> class, Sun ONE Application Server will run out of connections in the connection pool as the connections are not closed properly.</p> <p data-bbox="239 404 328 430"><b>Solution</b></p> <p data-bbox="239 447 1249 499">To avoid this problem, the DB2 Type 2 driver must be configured properly. These examples use the default DB2 client folder <code>/opt/IBM</code>.</p> <ol data-bbox="239 517 1249 638" style="list-style-type: none"><li data-bbox="239 517 1249 569">1. Install a DB2 Client on the machine which hosts Sun ONE Application Server, with a database alias to the DB2 Server.</li><li data-bbox="239 586 1249 638">2. Modify the <code>startserv</code> script of the application server instance to set the DB2 environment. Add the following lines to the application server instance's start script:<pre data-bbox="332 656 628 812">DB2DIR=/opt/IBM/db2/V8.1 export DB2DIR  DB2INSTANCE=db2tmp export DB2INSTANCE</pre></li><li data-bbox="239 829 1249 855">3. Because the client is owned by a user with a password, add these values to the connection pool:<pre data-bbox="332 873 949 1038">user: db2inst1 password: db2inst1 databaseName: sample2 dataSourceName com.ibm.db2.jcc.DB2SimpleDataSource</pre></li><li data-bbox="239 1055 1249 1081">4. Modify the Class Path to have the following values:<pre data-bbox="332 1098 911 1263">/opt/IBM/db2/V8.1/java/db2jcc.jar /opt/IBM/db2/V8.1/java/db2jcc_license_cu.jar /opt/IBM/db2/V8.1/java/db2jcc_license_cisuz.jar /opt/IBM/db2/V8.1/java/db2java.zip</pre></li></ol>

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# Web Container

This section describes the known web container issues, and the associated solutions.

ID	Summary
4740477	<p><b>The web cache example in sun-web-app_2_3-0.dtd file provides incorrect syntax for the timeout element.</b></p> <p>The <code>timeout</code> element is specified to use in XML cache object as:  <code>&lt;timeout&gt; 60 &lt;/timeout&gt;</code></p> <p>Because the <code>name</code> parameter is a required field, it should be written as:  <code>&lt;timeout name="foo"&gt;60&lt;/timeout&gt;</code></p> <p><b>Solution</b></p> <p>Do not use with verifier.</p>
4817642	<p><b>Allowing separate web applications to share the same session ID creates security weakness.</b></p> <p><b>Solution</b></p> <p>According to J2EE specification, each deployed web application maintains separate, unique session objects (session IDs). This is the default behavior of the Sun ONE Application Server. However, in some instances it may be desirable to allow separate web applications to share the same session ID. In this case, the Sun ONE Application Server allows you to specify a special deployment property in the <code>sun-web.xml</code> deployment descriptor to tell the application server that this particular application is allowed to reuse session IDs when going across web application modules. (The first access to a web application will generate a new unique session ID. Later requests to other web applications that have this property set will use that same session ID instead of generating a new one for this client and this web application.)</p> <p>To do this, the <code>reuseSessionId</code> property must be set to <code>true</code> for each deployed web application upon which you want to allow sharing of the same session object. For example:</p> <pre data-bbox="318 1090 1115 1378">&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;sun-web-app&gt;   &lt;session-config&gt;     &lt;cookie-properties&gt;       &lt;property name="cookiePath" value = "/" /&gt;       &lt;property name="cookieDomain" value = ".sun.com" /&gt;     &lt;/cookie-properties&gt;   &lt;/session-config&gt;   &lt;property name="reuseSessionID" value="true"/&gt; &lt;/sun-web-app&gt;</pre> <p>The property <code>reuseSessionID</code> is set to <code>true</code> in next to last line.</p> <p><b>CAUTION:</b> Turning on <code>reuseSessionId</code> opens a potential avenue for a security weakness (though it is not a weakness in of itself). This property should not be used in a shared environment (such as an ISV) where multiple customers are allowed to run their applications on the same Sun ONE Application Server instance. In such as setting, it is much safer to use the default J2EE behavior of forcing different web applications deployed to the same server instance to use different session objects.</p>

ID	Summary
5039545	<p data-bbox="239 241 1176 291"><b>Sun ONE Application Server sends absolute redirects causing problems with external SSL endpoints.</b></p> <p data-bbox="239 309 325 331"><b>Solution</b></p> <p data-bbox="239 348 1196 401">Add the <code>sun-web.xml</code> property <code>relativeRedirectAllowed</code>. The default is <code>false</code>. When set to <code>true</code> relative redirects are allowed instead of absolute redirects.</p>

## EJB Container

This section describes the known Enterprise JavaBeans™ (EJB™) container issues and associated solutions.

ID	Summary
4735835	<p data-bbox="239 723 915 746"><b>Cannot properly handle null PKs returned from <code>ejbFind</code> methods.</b></p> <p data-bbox="239 763 1222 841">The following container-managed persistence (CMP) examples might return one or more nulls from an <code>ejbFind</code> (assumed called from <code>EmployeeEJB</code> bean, as they must return the same instance type as the bean):</p> <ol data-bbox="239 859 936 881" style="list-style-type: none"> <li data-bbox="239 859 936 881">1. <code>find insurance.employee where insurance.id == 10</code></li> </ol> <p data-bbox="239 899 1016 921">This returns null if such insurance does not have an employee associated with it.</p> <ol data-bbox="239 939 976 961" style="list-style-type: none"> <li data-bbox="239 939 976 961">2. <code>find all insurance.employee where insurance.id &gt; 10</code></li> </ol> <p data-bbox="239 979 1200 1001">This returns a collection that might contain nulls for those insurances that do not have an employee.</p> <p data-bbox="239 1019 965 1079">For the first occurrence of a null PC in the result set, the CMP client will get <code>JDOFatalInternalException "param0 cannot be null"</code>.</p> <p data-bbox="239 1097 1215 1144">The BMP client will get <code>EJBException "Null primary key returned from ejbFind method"</code> for a single object finder, and (possibly) a <code>NullPointerException</code> for a multi object finder.</p> <p data-bbox="239 1161 325 1183"><b>Solution</b></p> <p data-bbox="239 1201 297 1223">None.</p>
4744434	<p data-bbox="239 1246 1158 1293"><b>The Sun ONE Application Server occasionally throws Null Pointer Exception when using stateful session beans.</b></p> <p data-bbox="239 1310 1205 1447">The EJB container in the Sun ONE Application Server caches stateful session beans to improve performance. When the cache overflows (that is, the number of beans in the cache exceeds <code>max-cache-size</code>) the container passivates beans to the disk. Occasionally the server throws <code>NullPointerException</code>. The problem occurs when the difference between <code>max-cache-size</code> and <code>cache-resize-quantity</code> is less than 8.</p> <p data-bbox="239 1465 325 1487"><b>Solution</b></p> <p data-bbox="239 1505 1210 1560">Ensure that the difference between <code>max-cache-size</code> and <code>cache-resize-quantity</code> is greater than eight, or use an unbounded cache by setting <code>max-cache-size</code> to zero.</p>

ID	Summary
4951476, 4967645	<p data-bbox="311 239 1336 291"><b>The exception <code>javax.ejb.EJBException: org/dom4j/Element</code> is thrown when using Java WSDP 1.2 or 1.3</b></p> <p data-bbox="311 309 1336 361"><b>NOTE:</b> If your application does not use the Java Web Services Developer Pack (Java WSDP) 1.2 or 1.3, this problem does not apply to you.</p> <p data-bbox="311 378 1336 430">When Java WSDP 1.2 or 1.3 is installed and configured to be used together with Sun ONE Application Server 7, a <code>javax.ejb.EJBException: org/dom4j/Element</code> could be thrown by the EJB Container.</p> <p data-bbox="311 447 1336 470"><b>Solution</b></p> <p data-bbox="311 487 1336 539">Add the latest <code>dom4j-full.jar</code> to <code>server-classpath</code> in the <code>server.xml</code> file. It is available for download at <a href="http://dom4j.org">http://dom4j.org</a> and should precede the <code>appserv-jstl.jar</code> entry in <code>server-classpath</code>.</p>
4994366	<p data-bbox="311 557 1336 579"><b>Error when deploying if <code>ejb-local-ref</code> is used without <code>ejb-link</code>.</b></p> <p data-bbox="311 597 1336 619"><b>Solution</b></p> <p data-bbox="311 637 1336 661"><code>ejb-local-ref</code> requires <code>ejb-link</code>. When using <code>ejb-local-ref</code>, you must specify an <code>ejb-link</code> value.</p>

## Container-Managed Persistence

This section describes the known container-managed persistence (CMP) issues and associated solutions.

ID	Summary
4732684	<p data-bbox="311 982 1336 1005"><b>Oracle JDBC driver optimizations are not being initiated.</b></p> <p data-bbox="311 1022 1336 1130">To take advantage of Oracle (R) database optimizations with container-managed persistence (CMP) beans, the Oracle driver files must be specified in the <code>classpath-suffix</code> attribute of the <code>server.xml</code> file rather than placed in the instance's <code>/lib</code> directory which is the default for third-party libraries.</p> <p data-bbox="311 1147 1336 1170"><b>Solution</b></p> <p data-bbox="311 1187 1336 1213">Add the Oracle driver files to the <code>classpath-suffix</code> attribute of the <code>server.xml</code> file.</p>
4734963	<p data-bbox="311 1234 1336 1256"><b>Self-referencing CMRs cause problem during deployment.</b></p> <p data-bbox="311 1274 1336 1352">The parser of the EJB deployment descriptor, <code>ejb-jar.xml</code>, does not correctly handle self-referencing container-managed relationships (CMRs), that is, <code>ejb-relationship-role</code>. The One side field is skipped.</p> <p data-bbox="311 1369 1336 1392"><b>Solution</b></p> <p data-bbox="311 1409 1336 1459">Switch the <code>ejb-relationship-role</code> sections so that the One side (with <code>&lt;multiplicity&gt;</code> Many) is the first in <code>ejb-relation</code>.</p>

ID	Summary
4747222	<p data-bbox="239 244 1122 269"><b>On Oracle, the capture-schema utility does not work if -schemaname is not specified.</b></p> <p data-bbox="239 284 1222 336">The capture-schema utility has the following problems if the -schemaname option is not specified when capturing database schema information from the Oracle (R) database:</p> <ol data-bbox="239 352 993 376" style="list-style-type: none"> <li data-bbox="239 352 993 376">1. If you attempt to capture all tables (that is, no tables are explicitly chosen):</li> </ol> <pre data-bbox="239 395 1222 475">bin/capture-schema -dburl jdbc:oracle:thin:@oraserver:1521:ora -username scott -password tiger -driver oracle.jdbc.driver.OracleDriver -out test.dbschema</pre> <p data-bbox="239 494 396 519">You will receive:</p> <pre data-bbox="239 526 779 574">java.sql.SQLExceptions ORA-00942: table or view does not exist.</pre> <p data-bbox="239 593 565 618">The resulting output file is broken.</p> <ol data-bbox="239 633 851 657" style="list-style-type: none"> <li data-bbox="239 633 851 657">2. If one or more tables are specified with the -table option:</li> </ol> <pre data-bbox="239 677 1222 756">bin/capture-schema -dburl jdbc:oracle:thin:@oraserver:1521:ora -username scott -password tiger -driver oracle.jdbc.driver.OracleDriver -table DEPT -out test.dbschema</pre> <p data-bbox="239 775 1190 828">The resulting file has the specified tables, but no column information, which means the file can't be used for CMP mapping.</p> <p data-bbox="239 843 325 868"><b>Solution</b></p> <p data-bbox="239 887 1208 939">When capturing a schema from the Oracle database, always use the -schemaname option with the user name in uppercase letters as the value:</p> <pre data-bbox="239 958 1222 1038">bin/capture-schema -dburl jdbc:oracle:thin:@oraserver:1521:ora -username scott -password tiger -driver oracle.jdbc.driver.OracleDriver -schemaname SCOTT -out test.dbschema)</pre>
4751235	<p data-bbox="239 1057 1179 1109"><b>For capture-schema utility: If values for the -table option are not specified in uppercase on Oracle and/or PointBase, the resulting file is broken.</b></p> <p data-bbox="239 1124 1222 1256">Oracle (R) and PointBase internally translate case-insensitive identifiers into uppercase letters, unless the identifier are enclosed in " "). The capture-schema utility does not correctly handle table names in lowercase or mixed-case letters as arguments to the -table option when capturing a database schema from Oracle or PointBase (such as -table student or -table Student). The generated database schema file will not contain any columns information for the corresponding table.</p> <p data-bbox="239 1275 325 1300"><b>Solution</b></p> <p data-bbox="239 1315 973 1340">Use uppercase letters to specify table names (such as -table STUDENT).</p>

## Message Service and Message-Driven Beans

This section describes the known Java Message Service (JMS), Sun ONE Message Queue, and message-driven beans issues, and the associated solutions.

ID	Summary
4683029	<p data-bbox="318 270 1300 322"><b>The <code>-javahome</code> flag in all MQ Solaris/Microsoft Windows scripts does not work if the value has a space.</b></p> <p data-bbox="318 340 1300 418">The command-line utilities in Sun ONE Message Queue have a <code>-javahome</code> option that allows you to specify an alternate Java runtime. Using this option exposes a limitation where the path of the specified alternate Java runtime must not contain spaces. Examples of paths that have spaces are:</p> <ul data-bbox="318 435 689 499" style="list-style-type: none"> <li data-bbox="318 435 689 456">• Microsoft Windows: <code>C:\jdk 1.4</code></li> <li data-bbox="318 473 689 494">• Solaris: <code>/work/java 1.4</code></li> </ul> <p data-bbox="318 517 1300 704">This problem occurs at Sun ONE Application Server instance startup. When a Sun ONE Application Server instance is started, by default its corresponding Sun ONE Message Queue broker instance is also started. The broker always starts using the <code>-javahome</code> command-line option to ensure that it uses the same Java runtime used by the Sun ONE Application Server. If the Java runtime that is configured for use by the Sun ONE Application Server (and therefore passed on for use by the broker) is located at a path that contains spaces, broker startup fails, which also causes the Sun ONE Application Server instance startup to fail.</p> <p data-bbox="318 722 408 743"><b>Solution</b></p> <p data-bbox="318 760 1300 812">Make sure that the Java runtime used by the Sun ONE Application Server is located at a path that does not contain spaces.</p>

## Java Transaction Service (JTS)

This section describes the known Java Transaction Service (JTS) issues and associated solutions.

### Recovery

There are some known problems with the recovery implementations of some of the JDBC drivers. For these known problems, Sun ONE Application Server provided some workarounds. By default, these workarounds will not be used unless you explicitly indicate that these workarounds are to be used.

- Issue with the Oracle (R) JDBC driver—Oracle XA Resource implementation's `recover` method repeatedly returns the same set of in-doubt Xids regardless of the input flag. According to the XA specs, the Transaction Manager should initially call `XAResource.recover` with `TMSTARTSCAN` and then call `XAResource.recover` with `TMNOFLAGS` repeatedly until no Xids are returned.

Oracle XA Resource's `commit` method also has some problems, which are addressed in a workaround provided by the Sun ONE Application Server. To enable this workaround, the following property should be added to the `transaction-service` subelement in the `server.xml` file: `oracle-xa-recovery-workaround`

This property value should be set to true.

- Issue with Sybase JConnect 5.2—There are some known problems with JConnect 5.2 driver which are resolved in JConnect 5.5. If the JConnect 5.2 driver is used, to make recovery to work, the following property should be added to the `transaction-service` subelement in the `server.xml` file:

```
sybase-xa-recovery-workaround
```

This property value should be sent to true.

## Transactions

In the `server.xml` file, `res-type` is used to demarcate the connection as non-XA or XA. This demarcation is used to identify the configuration of the data source to drive data. For example, in the Datadirect driver, the same data source can be used as either XA or non-XA.

The default behavior of the data source is non-XA. To make the data source behave as XA with the `connpool` element for transactions, `res-type` is needed. For the `connpool` element to work and participate in transactions, add the following for the attributes `res-type` in the `server.xml` file:

```
res-type=" javax.sql.XADataSource"
```

ID	Summary
4689337	<p data-bbox="239 907 976 930"><b>The connection from XADatasource in non-txn context cannot be used.</b></p> <p data-bbox="239 949 1129 999">This is a known database driver issue. When there is a connection in a non-txn context, with XADataSource the <code>Autocommit</code> is set to false by default.</p> <p data-bbox="239 1019 325 1041"><b>Solution</b></p> <p data-bbox="239 1060 1200 1107">Use the non-XA datasource class to call the commit/rollback programs explicitly rather than through transactions.</p>
4700241	<p data-bbox="239 1128 951 1150"><b>Non-zero transaction timeout setting causes slow local transactions.</b></p> <p data-bbox="239 1170 1225 1329">Currently, the Local Transaction Manager does not support transactions with definite timeouts. If you set the <code>timeout-in-seconds</code> attribute in <code>transaction-service</code> element to a value greater than 0, all local transactions will be processed as a global transactions, and will take longer to complete. A local transaction might also fail, if the data source driver does not support global transactions. A timeout value of 0 means that the transaction manager will wait indefinitely if it does not hear back from a participating data source.</p> <p data-bbox="239 1348 325 1371"><b>Solution</b></p> <p data-bbox="239 1390 872 1413">Reset the <code>timeout-in-seconds</code> value to its default value of 0.</p>

# Application Deployment

This section describes the known deployment issues and associated solutions.

ID	Summary
4403166	<p><b>On Microsoft Windows, long path names are not supported.</b></p> <p>Refer to <a href="#">“Installation, Upgrade, and Uninstallation” on page 11</a> for information on this problem.</p>
4703680	<p><b>Redeploying an EJB module (with MDB) throws a resource conflict exception.</b></p> <p>This occurs on Microsoft Windows 2000 using Sun ONE Studio 4 when using message-driven beans (MDBs). If an EJB module contains an MDB that utilizes a specific queue, then re-deploying the same EJB module with the same MDB (utilizing the same Queue) causes a resource conflict. This makes (modified) module un-usable.</p> <p><b>Solution</b></p> <p>None.</p>
4725147	<p><b>Cannot choose a particular virtual server for deployment.</b></p> <p>In this case, two virtual servers are configured with exactly the same host and listener. If an application is deployed only for second virtual server, it cannot be reached because combination host:port leads to the first virtual server.</p> <p><b>Solution</b></p> <p>The virtual server hostname should not be the same as the original hostname, especially when the same HTTP listener is used.</p>
4734969	<p><b>Can't deploy application with user's Query class in the bean package.</b></p> <p>Container-managed persistence (CMP) code-gen does not use the fully qualified name for the JDO Query variable in <code>concreteImpl</code>. If you have a Query class in the same package as the abstract bean, a compilation error occurs.</p> <p><b>Solution</b></p> <p>Move the Query class into another or separate package.</p>
4750461	<p><b>On Solaris, the Sun ONE Application Server might crash during dynamic reloading.</b></p> <p>For a large application (with many enterprise beans), a crash might occur during dynamic reloading of the application. The dynamic reloading feature is used, in the development environment, to quickly test minor changes to an application. The crash is caused by attempting to use more file descriptors than are available.</p> <p><b>Solution</b></p> <ol style="list-style-type: none"> <li>Increase the file descriptors limit by adding lines, in this format, to the <code>/etc/system</code> file. Depending on the size of the application, the values can be set higher or lower. <pre>set rlim_fd_max=8192 set rlim_fd_cur=2048</pre> </li> <li>Reboot the system.</li> </ol>

## Verifier

This section describes the known verifier issues and associated solutions.

ID	Summary
4742545	<p data-bbox="239 388 811 411"><b>Standalone verifier shows EJB Class Not Found errors.</b></p> <p data-bbox="239 430 1222 644">The verifier indicates some failed tests with the following test description message: <code>EJB Class Not Found</code>. The test failures occur when an EJB JAR file uses an enterprise bean with a reference to another enterprise bean that is packaged in a separate EJB JAR file within the same EAR application. The failure messages are also observed if you try to validate the connector (RAR) dependent EAR files. This is because the RAR bundle need not be packaged within the EAR file that houses the enterprise bean with dependency on the RAR bundled files. The failures (exception to this are the connector-related failures) are only observed with the standalone verifier. The verifier invoked through the deployment command or the Administration interface does not show the failures.</p> <p data-bbox="239 663 325 685"><b>Solution</b></p> <p data-bbox="239 704 1222 887">Make sure that the packaging of the application EAR is correct and if you are using any utility JAR file, it is packaged within the EAR file. To resolve the referencing errors, you can shift to the verifier invoked through the deployment backend using <code>asadmin</code> or the Administration interface. For the connector-related failures, place the JAR file containing the required classes into the class path for the verifier. You can open the <code>install_root/bin/verifier[.bat]</code> file and add a <code>LOCAL_CLASSPATH</code> variable to the end of the <code>JVM_CLASSPATH</code> variable. Locally add the classes to the <code>LOCAL_CLASSPATH</code> variable, then run the verifier.</p>

## Configuration

- The default value of the `env-classpath-ignored` attribute of the `java-config` element is `true`.
- Not Implemented for this release:
  - The `bytecode-preprocessors` attribute in `java-config` element in `server.xml` (It is likely that it will become available in a future performance patch.)
- Deprecated for this release:
  - `is-cache-overflow-allowed`
  - `max-wait-time-in-millis`
- Due to J2EE 1.4 architecture changes, some elements might not be supported in future releases, such as:
  - `cmt-max-runtime-exceptions` property of the `mdb-container` element

The following table describes the known Sun ONE Application Server 7 configuration issues and their solution.

ID	Summary
4742559	<p data-bbox="318 352 1053 374"><b>If IPv6 is not used in your network, this problem does not apply to you.</b></p> <p data-bbox="318 395 1302 470">By default, the Sun ONE Application Server uses IPv4. This is supported by all platforms on which the Sun ONE Application Server is available. In certain platforms, IPv6 is supported. In this case, Sun ONE Application Server configuration changes are required for conformance.</p> <p data-bbox="318 491 1302 565">NOTE: If these configuration changes are to be made, it is essential to be absolutely sure of IPv6 support on the platforms. Server instances might not start if the IPv6-related configuration is applied to a system that has only IPv4 support.</p> <p data-bbox="318 586 408 609"><b>Solution</b></p> <p data-bbox="318 630 748 652">Perform the following configuration changes:</p> <ol data-bbox="318 673 1208 933" style="list-style-type: none"> <li data-bbox="318 673 582 696">1. Start the Admin Server.</li> <li data-bbox="318 716 1208 739">2. Start the Administration interface. (Connect to Admin Server http host/port in a browser).</li> <li data-bbox="318 760 1029 782">3. Select the App Server instance to configure for IPv6, such as server1.</li> <li data-bbox="318 803 836 826">4. Expand the HTTP Listeners node in the tree view.</li> <li data-bbox="318 847 1025 869">5. Select the HTTP Listener to configure for IPv6, such as http-listener1.</li> <li data-bbox="318 890 1048 913">6. In the General section, change the value of the IP Address field to ANY.</li> <li data-bbox="318 933 1043 956">7. In the Advanced section, change the value of the Family field to INET6.</li> </ol> <p data-bbox="318 977 1302 1008">Setting the Family field to INET6 does not disable IPv4 functionality unless an IPv6 address is selected for IP address. Selecting an IP address of ANY will match any IPv4 or IPv6 address.</p> <ol data-bbox="318 1029 993 1208" style="list-style-type: none"> <li data-bbox="318 1029 465 1052">8. Click Save.</li> <li data-bbox="318 1072 779 1095">9. In the left pane, select your server instance.</li> <li data-bbox="318 1116 565 1138">10. Click Apply Changes.</li> <li data-bbox="318 1159 458 1182">11. Click Stop.</li> <li data-bbox="318 1203 993 1225">12. Click Start. This restarts the server and implements your changes.</li> </ol>

## Deployment Descriptors

This section describes the known deployment descriptor issues.

## sun-cmp-mapping.xml Issues

- Not Implemented for this release:
  - check-modified-at-commit
  - lock-when-modified

## sun-ejb-jar.xml Issues

- Deprecated for this release:
  - is-cache-overflow-allowed
  - max-wait-time-in-millis

# Monitoring

This section describes the known monitoring issues and associated solutions.

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ID	Summary
4734595	<p><b>Total-connections-failed-validation does not show values.</b></p> <p>The issue is with the inherent double pooling problem in the reference implementation (RI).</p> <p><b>Solution</b></p> <p>None.</p>
4737227	<p><b>FlagAsyncEnabled does not set to 1 in http-server.</b></p> <p>This is a known the Sun ONE Web Server issue.</p> <p><b>Solution</b></p> <p>None.</p>
4752199	<p><b>Monitoring bean method attribute values are not shown for getPrimaryKey(), getEJBMetaData(), getHomeHandle() methods.</b></p> <p>The monitoring tool lists methods in an enterprise bean that can be monitored. For <code>getPrimaryKey()</code>, <code>getEJBMetaData()</code>, and <code>getHomeHandle()</code>, the method level monitoring attributes always show zero.</p> <p><b>Solution</b></p> <p>None</p>

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# Server Administration

This section addresses the following areas:

- [Command Line Interface \(CLI\)](#)
- [Administration Infrastructure](#)
- [Administration Interface](#)

## Command Line Interface (CLI)

This section describes the known command-line interface issues and associated solutions.

ID	Summary
4676889	<p data-bbox="315 656 1253 682"><b>CLI command overflows in single-mode if the command is more than 256 characters long.</b></p> <p data-bbox="315 699 1300 751">On UNIX(R), when executing a CLI command in single-mode that contains more than 256 characters, the command fails with this error: <code>...Command Not Found...</code></p> <p data-bbox="315 769 791 795">This is a terminal restriction, not a CLI restriction.</p> <p data-bbox="315 812 411 838">Example:</p> <pre data-bbox="315 855 1300 1020">create-jdbc-connection-pool --instance server4 --datasourceuser admin --datasourcepassword adminadmin --datasourceclassname test --datasourceurl test --minpoolsize=8 --maxpoolsize=32 --maxwait=60000 --poolresize=2 --idletimeout=300 --connectionvalidate=false --validationmethod=auto-commit --failconnection=false --description test sample_connectionpoolid)</pre> <p data-bbox="315 1038 408 1064"><b>Solution</b></p> <ol data-bbox="315 1081 1079 1154" style="list-style-type: none"> <li data-bbox="315 1081 1079 1107">1. For commands that require more than 256 characters, use CLI multi-mode.</li> <li data-bbox="315 1124 1079 1154">2. If you must use single-mode, run the command using OpenWin <code>cmdtool</code>.</li> </ol>

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ID	Summary
4680409	<b>After configuring an instance to use SSL, the administrator cannot access the Admin Server from either the CLI or browser clients.</b>  <b>Solution</b>  Import the Sun ONE Application Server certificate into each client that is to use SSL to access the Admin Server, and indicate that servers with such a certificate are to be trusted. How to do this on a browser is browser-specific; consult your browser's online help to see how to import a certificate to be trusted.  For the CLI, if the server's certificate is in some <code>servercert.cer</code> file, and the installation directory is <code>/INSTALL</code> , the command is:  <pre>keytool -import -file servercert.cer -alias server -keystore /INSTALL/jdk/jre/lib/security/cacerts</pre> NOTE: To avoid this problem in the future, ensure that the Admin Server certificate is installed in both the server <i>and</i> the client(s) before configuring the Admin Server to use SSL.
4688386	<b>Using the asterisk (*) character in single-mode CLI command results in unexpected behavior and/or error messages.</b>  The asterisk character is being expanded by the underlying shell into a list of names, and it is this list of names that is being seen by the command-line interface (CLI) command. Putting quote marks around the asterisk prevents the shell from expanding the asterisk, and thus the CLI gets to see the asterisk itself.  <b>Solution</b>  Use quote characters (either single or double quotes) around the asterisk.
4701361	<b>Repeated changes applied to any instance eventually results in an out of memory error.</b>  The Admin Server keeps a record of all changes performed to the system, which requires memory. This change record (but not the changes themselves) is discarded during a reconfiguration, thus releasing the memory for use.  <b>Solution</b>  Use the <code>asadmin reconfig</code> command periodically to discard old change records.
4704328	<b>Cleanup does not happen when a call to create a duplicate domain fails.</b>  When a domain that already exists is created, an appropriate error message is generated. However, a directory specified by the <code>-path</code> option in the <code>create-domain</code> command is created if it did not exist earlier. This should be removed since the command failed.  <b>Solution</b>  Remove any additional empty directory specified that might be created after the <code>-path</code> option is used.

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ID	Summary
4708813	<p data-bbox="315 244 1079 269"><b>Cannot monitor the default (pointbase) connection-pool JDBC resources.</b></p> <p data-bbox="315 284 1292 335">The JDBC connection pools are created dynamically on demand, which means that a pool is created the first time it is used. If the pool has not been created (not used), monitoring is not possible.</p> <p data-bbox="315 350 408 374"><b>Solution</b></p> <p data-bbox="315 390 851 414">Create the desired connection pool to allow monitoring.</p>
4722007	<p data-bbox="315 435 1108 460"><b>Monitoring: Execution times of less than 1 millisecond cannot be measured.</b></p> <p data-bbox="315 475 1292 526">When an entity bean method is monitored, the <code>execution-time-millis</code> attribute shows -1. For example, when running the command:</p> <pre data-bbox="315 541 1292 626">iasadmin&gt;get -m server1.application.usecase1app.ejb-module.UseCase1Ejb_jar.entity-bean. BeanOne.bean-method.method_create0.*</pre> <p data-bbox="315 642 675 666">The following attributes are returned:</p> <pre data-bbox="315 682 1210 916">Attribute name = total-num-errors Value = 0 Attribute name = method-name Value = public abstract com.ipplanet.ias.perf.jts.UseCase1.ejb.BeanOneRemote com.ipplanet.ias.perf.jts.UseCase1.ejb.BeanOneHome.create() throws javax.ejb.CreateException, java.rmi.RemoteException Attribute name = total-num-calls Value = 0 Attribute name = total-num-success Value = 0 Attribute name = execution-time-millis Value = -1</pre> <p data-bbox="315 932 1292 1039">Before monitoring is started, the default value for <code>execution-time-millis</code> is set to -1 to indicate that the value for that attribute is invalid at that moment. A default value of 0 would give a false impression that the execution time has been measured, and that it has turned out to be a very small value.</p> <p data-bbox="315 1055 408 1079"><b>Solution</b></p> <p data-bbox="315 1095 379 1119">None.</p>
4733109	<p data-bbox="315 1142 1292 1192"><b>Verifier error reported in Administration interface when viewing Persistence Manager Factory resource created from command-line interface.</b></p> <p data-bbox="315 1208 1292 1258">When a Persistence Manager Factory resource is viewed in the Administration interface, the following error is reported for the resource when it is created from the command-line interface:</p> <pre data-bbox="362 1274 1292 1303">    ArgChecker Failure: Validation failed for jndiName: object must be non-null</pre> <p data-bbox="315 1319 408 1343"><b>Solution</b></p> <p data-bbox="315 1359 379 1383">None.</p>

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ID	Summary
4742993	<b>On Solaris, the flexanlg command causes open failure when used on Sun ONE Application Server that is integrated into Solaris.</b>  If you are running a version that is integrated into the Solaris operating environment, and you use the flexanlg command from /usr/appserver/bin, an open failure error is displayed.  ld.so.1: /usr/appserver/bin/flexanlg: fatal: libplc4.so: open failed: No such file or directory Killed  <b>Solution</b>  Complete these steps.  1. Add the following entry to LD_LIBRARY_PATH file:  usr/lib/mps  2. Then run the flexanlg command.  % /usr/appserver/bin/flexanlg
4750518	<b>Some CLI commands do not work on the target Admin Server.</b>  The create, delete, or list commands do not work in the CLI on the target Admin Server for creating/deleting/listing new elements (such as SSL, mime, profiler, resources, and so on) in the server.xml file of the Admin Server.  <b>Solution</b>  Use the Administration interface to create, delete, and list elements in the Admin Server.

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## Administration Infrastructure

This section describes the known administration infrastructure issues and associated solutions.

ID	Summary
4676888	<p data-bbox="315 366 1265 390"><b>On Microsoft Windows 2000, cannot create JVM when JVM heap size is set to a large value.</b></p> <p data-bbox="315 406 1293 430">If you try to set a larger JVM heap size on Windows 2000, you might get the following error message:</p> <pre data-bbox="315 447 951 531">Error occurred during initialization of VM, Could not reserve enough space for object heap Internal error: unable to create JVM</pre> <p data-bbox="315 548 408 572"><b>Solution</b></p> <p data-bbox="315 590 1272 642">To configure the Sun ONE Application Server with a larger JAVA heap size on Windows 2000, it is necessary to rebase the Sun ONE Application Server DLLs.</p> <p data-bbox="315 659 1269 763">The Rebase utility, which comes both with Microsoft Framework SDK and Microsoft Visual Studio, allows you to set optimal base addresses for a number of DLLs starting from some address and thereby increasing JVM heap availability. The SDK Help Rebase topic recommends using address 0x60000000. For more details on rebase utility:</p> <p data-bbox="362 781 1300 833"><a href="http://msdn.microsoft.com/library/default.asp?url=/library/en-us/tools/tools/performance_tools.asp">http://msdn.microsoft.com/library/default.asp?url=/library/en-us/tools/tools/performance_tools.asp</a></p> <p data-bbox="315 855 461 880">Requirements:</p> <ul data-bbox="315 897 882 961" style="list-style-type: none"> <li data-bbox="315 897 768 921">• Window 2000 system with 2-4 GB memory</li> <li data-bbox="315 939 882 961">• Visual Studio/Microsoft Framework SDK Rebase utility</li> </ul> <p data-bbox="315 979 893 1003">To apply rebase to S1AS dynamic libraries do the following:</p> <ol data-bbox="315 1020 701 1171" style="list-style-type: none"> <li data-bbox="315 1020 579 1045">1. cd into <i>install_dir</i>\bin</li> <li data-bbox="315 1062 698 1086">2. rebase -b 0x6000000 *.dll</li> <li data-bbox="315 1104 482 1128">3. cd ..\lib</li> <li data-bbox="315 1145 698 1170">4. rebase -b 0x6600000 *.dll</li> </ol>
4686003	<p data-bbox="315 1194 811 1218"><b>HTTP Quality of Service limits are not enforced.</b></p> <p data-bbox="315 1236 1293 1340">Quality of Service (QOS) includes a means of specifying the maximum number of HTTP connections and the bandwidth limit. When these attributes are exceeded, a 503 error should be returned to the client. However, after enabling QOS through the Administration interface, the server does not enforce the QOS limits.</p> <p data-bbox="315 1357 408 1381"><b>Solution</b></p> <p data-bbox="315 1399 1293 1480">To fully enable QOS features, you must manually add an AuthTrans fn=qos-handler line to the top of the default object in the <code>obj.conf</code> file of the virtual server. The qos-handler Server Application Function (SAF) and <code>obj.conf</code> configuration file are described in the <i>Developer's Guide to NSAPI</i>.</p>

ID	Summary
4692673	<p><b>Restarting an instance in debug mode seems to fail if the instance is originally running in non-debug mode.</b></p> <p>If an instance is started without checking/selecting the 'Start/Restart in debug mode' check box, subsequent settings of this check box do not work. In the Administration interface, the Debug Enabled check box appears unchecked, even though it has been checked. The <code>server.xml</code> file also shows <code>debug-enabled=false</code>.</p> <p><b>Solution</b></p> <p>None.</p>
4699450	<p><b>On Microsoft Windows 2000, deployment fails for EAR files if total length of the path to a generated file during deployment exceeds 260 characters.</b></p> <p>On the Windows 2000 platform, the Java Virtual Machine (JVM) is limited to 260 characters for path names to generated files. This is a problem with Microsoft Windows support in the JVM, and is likely to be fixed in the J2SE 1.5 release.</p> <p><b>Solution</b></p> <p>When deploying an application, use a path and file name that are less than 260 characters combined.</p>
4723776	<p><b>On Solaris, server fails to restart when converting to an SSL-enabled environment.</b></p> <p>If you attempt to restart the Sun ONE Application Server after installing a certificate and enabling security, the restart fails. A message is displayed indicating that the server failed to receive a password. A second click of the Start button starts the server. When SSL is not enabled, passwords are not cached which results in the failure of restart. The restart command does not support the transition from non-SSL to SSL enabled mode.</p> <p>NOTE: This problem only occurs the first time the server is restarted. Subsequent restarts work fine.</p> <p><b>Solution</b></p> <p>If you have encountered this problem:</p> <p>Click Start.</p> <p>To avoid this problem, perform the following steps instead of clicking the Restart button.</p> <p>Click Stop. Click Start.</p>
4724780	<p><b>Cannot start Admin Server if the domain is created in another system.</b></p> <ul style="list-style-type: none"> <li>• If the domain is created on a PCNFS mounted drive, the Admin Server and any instances within such domains cannot be started due to a known Microsoft issue involving PCNFS drives.</li> <li>• If the domain is created in the same local drive as the product installation but in a different directory path, the instances and the Admin Server work as expected, and are fully operational.</li> </ul> <p><b>Solution</b></p> <p>None.</p>

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ID	Summary
4734184	<p data-bbox="315 244 986 269"><b>On Microsoft Windows 2000, the console is sometimes disabled.</b></p> <p data-bbox="315 284 1272 361">Sometimes (rarely) the Admin Server or App Server instance hangs during deployment or when commands are run. This can happen when some of the text from the console log is selected. If you deselect the text on the console log, the process continues.</p> <p data-bbox="315 380 408 404"><b>Solution</b></p> <p data-bbox="315 420 1282 499">Disable automatic creation of the console for server1 instance by setting <code>log-service create-console</code> attribute to false. Clicking the mouse or pressing Enter on the console log might also solve this problem.</p>
4736554	<p data-bbox="315 519 1210 574"><b>After a secure HTTP listener has been removed from a server, the administrator is still prompted for the (no longer needed) password.</b></p> <p data-bbox="315 593 408 618"><b>Solution</b></p> <p data-bbox="315 633 779 657">Remove the entire server and then add it again.</p> <p data-bbox="315 673 1300 722">NOTE: To avoid the problem in the future—Before removing the <code>httplistener</code>, disable security using the following command:</p> <pre data-bbox="315 741 1239 911">/export2/build/bin/&gt; asadmin set --user admin --password adminadmin server1.http-listener.http-listener-1.securityEnabled=false Attribute securityEnabled set to false. /export2/build/bin/&gt; asadmin delete-http-listener --user admin --password adminadmin ls2 Deleted Http listener with id = ls2</pre>
4737756	<p data-bbox="315 930 1058 954"><b>On Microsoft Windows 2000, corrupt messages display on the console.</b></p> <p data-bbox="315 970 1282 1019">On Windows 2000, for a non-English locale (such as Japanese) you might see corrupted messages displayed on the console.</p> <p data-bbox="315 1038 408 1062"><b>Solution</b></p> <p data-bbox="315 1078 808 1102">Use the Admin interface to view the log messages.</p>

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ID	Summary
4739831	<p data-bbox="237 244 1105 265"><b>A partially-deleted instance causes incorrect responses from some CLI commands.</b></p> <p data-bbox="237 284 1169 335">If a server instance is partially deleted, the following problems are known to occur with some CLI commands (solutions are provided with each problem description):</p> <ol data-bbox="237 354 1222 404" style="list-style-type: none"> <li data-bbox="237 354 1222 404">1. The <code>create-instance</code> command in local mode reports that the instance exists even if there are no sub-directories under the instance folder.</li> </ol> <p data-bbox="237 423 329 444"><b>Solution</b></p> <p data-bbox="237 463 1143 484">Manually remove the leftover instance directory, then run the <code>create-instance</code> command.</p> <ol data-bbox="237 503 1222 553" style="list-style-type: none"> <li data-bbox="237 503 1222 553">2. The <code>list-instances</code> command in local mode includes the partially-deleted instance name and status.</li> </ol> <p data-bbox="237 572 329 593"><b>Solution</b></p> <p data-bbox="237 612 1129 633">Manually remove the leftover instance directory, then run the <code>list-instances</code> command.</p> <ol data-bbox="237 652 1193 703" style="list-style-type: none"> <li data-bbox="237 652 1193 703">3. On Microsoft Windows 2000, the <code>start-instance</code> command in remote mode displays a null string.</li> </ol> <p data-bbox="237 722 329 743"><b>Solution</b></p> <p data-bbox="237 762 1051 812">Manually remove the leftover instance directory, create a new instance, then run the <code>start-instance</code> command.</p> <ol data-bbox="237 831 1203 907" style="list-style-type: none"> <li data-bbox="237 831 1203 907">4. On Microsoft Windows 2000, the <code>stop-instance</code> command in both local and remote modes reports incorrect exceptions. In local mode, the command displays an incorrect message stating that the instance is not running. In remote mode, the command displays a null string.</li> </ol> <p data-bbox="237 927 1210 1003">On Solaris, the <code>stop-instance</code> command in local mode incorrectly reports that the user does not have permission to access the instance's <code>config</code> directory although the <code>config</code> directory does not exist.</p> <p data-bbox="237 1022 329 1043"><b>Solution</b></p> <p data-bbox="237 1062 704 1083">Manually remove the leftover instance directory.</p>
4739891	<p data-bbox="237 1107 1222 1157"><b>Deletion of a virtual server fails if the default web module referred to by the virtual server does not exist or has been undeployed.</b></p> <p data-bbox="237 1177 329 1197"><b>Solution</b></p> <p data-bbox="237 1216 1222 1267">Set the Default Web Module field of the virtual server to None Selected, click OK to save the changes, then delete the virtual server.</p>

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ID	Summary
4740022	<p data-bbox="315 244 1153 269"><b>SNMP: END OF MIB is returned when adding and starting a new instance server.</b></p> <p data-bbox="315 284 1300 335">If you add and start a new instance without shutting down the instance server and subagent, an <code>END OF MIB</code> message is returned.</p> <p data-bbox="315 350 408 374"><b>Solution</b></p> <ol data-bbox="315 390 1300 569" style="list-style-type: none"><li data-bbox="315 390 1300 475">1. To view a new instance, make sure the subagent and all the instance server processes are shut down. Under each server -&gt;Monitoring -&gt; "Enable SNMP Statistics Collection: on", apply the change, then restart each instance server, and start only one subagent process again.</li><li data-bbox="315 491 1300 569">2. If the subagent is already running, don't start any extra subagent processes in any instance. There can only be one master agent and one subagent for a Sun ONE Application Server installation (common for all domains/instances).</li></ol>
4737138	<p data-bbox="315 585 1232 635"><b>License expired message does not appear at Microsoft Windows Services or at the DOS prompt.</b></p> <p data-bbox="315 651 1300 701">When starting servers from Windows Services or from the DOS prompt command (<code>startserv.bat</code>) after license expiration, appropriate license expiration messages are not shown</p> <p data-bbox="315 716 408 741"><b>Solution</b></p> <p data-bbox="315 756 889 788">Start servers from CLI (<code>asadmin</code>) or from Sun program icon</p>
4780488	<p data-bbox="315 803 1300 1008"><b>Existence of multiple <code>obj.conf</code> files causes confusion.</b></p> <p data-bbox="315 847 1300 1008">Upon creation of a new Sun ONE Application Server instance, the <code>instance-dir/config/</code> directory will contain two <code>obj.conf</code> files, one named <code>obj.conf</code> and the other named <code>virtual-server-name-obj.conf</code>, where <code>virtual-server-name</code> is the same value as the instance name for the virtual server that is created automatically during instance creation. The documentation refers to "modification of the <code>obj.conf</code> file" when it should refer to "modification of the <code>obj.conf</code> file associated with the virtual server of interest."</p> <p data-bbox="315 1024 1300 1133">When the Sun ONE Application Server is installed, the <code>obj.conf</code> and <code>server1-obj.conf</code> files exist under the <code>/domains/domain1/server1/config/</code> directory. The content in the file named <code>obj.conf</code> is overridden by the content of the <code>server1-obj.conf</code> file specified at the virtual server level. In effect, the file named <code>obj.conf</code> is not used by the Sun ONE Application Server instance.</p> <p data-bbox="315 1149 1300 1229">For example, if you modified the file named <code>obj.conf</code> while configuring the Sun ONE Application Server web server plug-in, your pass through settings will not take effect because the wrong <code>obj.conf</code> file has been modified.</p> <p data-bbox="315 1244 408 1269"><b>Solution</b></p> <p data-bbox="315 1284 1300 1345">If and when you need to modify the <code>obj.conf</code> file for an instance, modify the file prefixed with the virtual server name of interest.</p>

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ID	Summary
4938319	<p data-bbox="239 244 892 265"><b>Errors when using SSL and web server (reverse proxy) plug-in.</b></p> <p data-bbox="239 284 825 305">502 errors occur when using SSL and the web server plug-in</p> <p data-bbox="239 324 325 347"><b>Solution</b></p> <p data-bbox="239 366 1225 496">Set the <code>keepAliveTimeout</code> value to the same value in both the Sun ONE Web Server <code>magnus.conf</code> file and the Sun ONE Application Server's <code>init.conf</code> file. If these values are different the connection may be closed when the Application Server connects to the Web Server or the Web Server connects to the Application Server. If the connection is already closed, you see a 502 error.</p>
6092475	<p data-bbox="239 519 1186 595"><b>When running the web server (reverse proxy) plug-in with Sun ONE Web Server 6.1 on Intel-based hardware (such as Solaris x86, Linux, or Microsoft Windows) the Sun ONE Web Server may experience crashes and restarts under heavy loads.</b></p> <p data-bbox="239 614 325 637"><b>Solution</b></p> <p data-bbox="239 656 1225 706">To correct this problem, make the following configuration change to the <code>magnus.conf</code> file and restart the web server instance:</p> <pre data-bbox="239 725 408 788">KernelThreads 1 RqThrottle 1</pre> <p data-bbox="239 807 1158 857">These changes cause Sun ONE Web Server 6.1 to use native OS threads on the Intel platform hardware, rather than creating NSCP threads, which do not scale well on Intel based hardware.</p> <p data-bbox="239 876 1108 897">These settings are not needed for other hardware platforms, such as Sun Solaris SPARC.</p>
6157476	<p data-bbox="239 918 1169 968"><b>On UNIX platforms, users in the same group as the “sysuser” of the Sun ONE Application Server’s domain and instances do not have write access to deployed applications.</b></p> <p data-bbox="239 987 325 1010"><b>Solution</b></p> <p data-bbox="239 1029 454 1050">To avoid this problem:</p> <ol data-bbox="239 1069 1225 1295" style="list-style-type: none"> <li data-bbox="239 1069 696 1090">1. Create the domain with the <code>-sysuser</code> option.</li> <li data-bbox="239 1109 1225 1185">2. As the system user, change the user mask to 2 by running <code>umask 2</code> at the command prompt. This change turns on the group write permissions for all files created by the Sun ONE Application Server.</li> <li data-bbox="239 1204 525 1225">3. Restart the Admin Server.</li> <li data-bbox="239 1244 1225 1295">4. Grant group write permissions to the server instance’s applications directory by executing <code>chmod -R 775 applications</code> in the instance directory.</li> </ol> <p data-bbox="239 1314 1208 1364">Files of deployed applications will now have group write permissions. For additional background and more information, see Info Doc 77800.</p>

## Administration Interface

When using Administration interface, make sure that the browser is configured to check for newer versions of pages from the server, instead of picking these from cache. Generally, default browser settings would not cause problems.

- On Internet Explorer, make sure that Tools->Settings...->Check for newer versions of stored pages: is not set to 'Never'.
- On Netscape, make sure that Edit->Preferences...->Advanced->Cache->Compare the page in the cache to the page on the network: is not set to 'Never'.

This section describes the known Sun ONE Application Server 7 administration graphical user interface issues, and the associated solutions.

ID	Summary
4722607	<p><b>On Microsoft Windows 2000, cannot edit or remove entries within a newly created mime file that omits the .types extension.</b></p> <p>On Windows 2000, the MIME file must have the .types extension following the file name in order for modifications to entries in the file. For example, mime2.types and not mime2</p> <p><b>Solution</b></p> <p>Use the .types extension for any mime file name.</p>

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ID	Summary
4725473	<p data-bbox="239 239 1249 269"><b>External certificate nickname doesn't display on the Administration interface Nickname list.</b></p> <p data-bbox="239 286 1249 390">When you install an external certificate through the Sun ONE Application Server Administration interface, a problem is encountered when you attempt to enable SSL for the http-listener by using the certificate that is installed on the external cryptographic module. Although the installation of the certificate is successful, the certificate nickname does not display in the Administration interface.</p> <p data-bbox="239 407 328 434"><b>Solution</b></p> <ol data-bbox="239 451 1249 598" style="list-style-type: none"><li data-bbox="239 451 1249 503">1. Log in to the system where the Sun ONE Application Server software is installed as an Administrative User.</li><li data-bbox="239 512 1249 598">2. Link the http-listener to the certificate installed on the external cryptographic module. Execute the <code>asadmin</code> command. For more information on the <code>asadmin</code> command, see the <code>asadmin(1M)</code> man page.</li></ol> <pre data-bbox="239 616 799 885">/sun/appserver7/bin/asadmin create-ssl   --user admin --password <i>password</i>   --host <i>host_name</i>   --port 8888   --type http-listener   --certname nobody@apprealm:Server-Cert   --instance server1   --ssl3enabled=true   --ssl3tlsciphers +rsa_rc4_128_md5   http-listener-1</pre> <p data-bbox="239 902 1249 980">This command establishes the link between the certificate and the server instance; it does not install the certificate (which was done using the Administration interface). Even though the certificate is linked with <code>http-listener</code>, the <code>http-listener</code> will be listening in non-SSL mode.</p> <ol data-bbox="239 998 1249 1024" style="list-style-type: none"><li data-bbox="239 998 1249 1024">3. Enable the <code>http-listener</code> to listen in SSL mode by using the following CLI command.</li></ol> <pre data-bbox="239 1041 1071 1197">/sun/appserver7/bin/asadmin set   --user admin   --password <i>password</i>   --host <i>host_name</i>   --port 8888   server1.http-listener.http-listener-1.securityEnabled=true</pre> <p data-bbox="239 1215 1249 1241">This command switches the server instance listening state from non-SSL to SSL.</p> <p data-bbox="239 1258 1249 1284">After completing the preceding steps, the certificate is displayed in the Administration interface.</p> <ol data-bbox="239 1302 1249 1329" style="list-style-type: none"><li data-bbox="239 1302 1249 1329">4. You can now use the Administration interface to edit the <code>http-listener</code> as needed.</li></ol>

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ID	Summary
4728718	<p data-bbox="315 244 1305 291"><b>When creating a new virtual server and a value is given for the location of the log file, a "File Not Found" error is reported.</b></p> <p data-bbox="315 314 1103 338">In the Administration interface, the log file field cannot be used to add any values.</p> <p data-bbox="315 352 408 376"><b>Solution</b></p> <p data-bbox="315 394 1205 418">Delete the virtual server just created, create the needed file, then recreate the virtual server.</p> <p data-bbox="315 435 1305 482">NOTE: To avoid the problem in the future—Always create the log file first, before attempting to create the new virtual server.</p>
4741123	<p data-bbox="315 505 1258 529"><b>On Solaris 9 update 2, default browser is incompatible with Sun ONE Application Server 7.</b></p> <p data-bbox="315 546 1305 593">When you attempt to use the Sun ONE Application Server Administrative interface with the Solaris 9 4/03 operating environment default browser, the following error message is displayed:</p> <p data-bbox="315 616 796 640">Unsupported Browser: Netscape 4.78.</p> <p data-bbox="315 663 1305 769">It is recommended that you upgrade your browser to Netscape 4.79 or Netscape 6.2 to run the Sun ONE Application Server UI. Those who choose not to continue and not upgrade might notice degraded performance and/or unexpected behavior.</p> <p data-bbox="315 791 1305 864">NOTE: If you are running the version of the Sun ONE Application Server Administration interface that is included in the Solaris 9 4/03 operating environment, you will need to use Netscape 4.79 or Netscape 7.0.</p> <p data-bbox="315 887 408 911"><b>Solution</b></p> <ul data-bbox="315 927 1305 1043" style="list-style-type: none"><li data-bbox="315 927 1305 973">• For Sun ONE Application Server 7 standalone, upgrade to Netscape 4.79 or Netscape 6.2— Use <code>/usr/dt/bin/netscape6</code> instead of <code>/usr/dt/bin/netscape</code>.</li><li data-bbox="315 996 1305 1043">• For Sun ONE Application Server 7 bundled with Solaris, upgrade to Netscape 4.79 or Netscape 7—Use <code>/usr/dt/appconfig/SUNWns/netscape</code> instead of <code>/usr/dt/bin/netscape</code>.</li></ul>
4750616	<p data-bbox="315 1065 1279 1090"><b>Access Control List (ACL) editing is not supported on some versions of Netscape Navigator.</b></p> <p data-bbox="315 1107 1305 1180">If you attempt to edit ACL entries while using either Netscape Navigator, versions 6.x or 7.x, you might encounter intermittent problems, such as the browser disappearing or the ACL edit screen never displays.</p> <p data-bbox="315 1203 408 1227"><b>Solution</b></p> <p data-bbox="315 1244 725 1269">Choose one of the following workarounds.</p> <ul data-bbox="315 1284 1305 1383" style="list-style-type: none"><li data-bbox="315 1284 891 1308">• Use the supported 4.79 version of Netscape Navigator.</li><li data-bbox="315 1324 1305 1383">• Manually edit the ACL file. For details on ACL file formatting, see the <i>Sun ONE Application Server Administrator's Guide</i>.</li></ul>

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ID	Summary
4752055	<p data-bbox="239 239 962 265"><b>Netscape 4.8 produces warning message on Administration interface.</b></p> <p data-bbox="239 282 1222 387">When using Netscape 4.8 to access the Administration interface, a warning appears indicating Netscape 4.8 is an unsupported browser. Although no issues have been identified when using Netscape 4.8 to run the Administration interface, more thorough testing needs to be completed on this version of the Netscape browser.</p> <p data-bbox="239 404 327 430"><b>Solution</b></p> <p data-bbox="239 447 1222 512">Select the Continue hyperlink from the warning message to continue using the Administration interface. Use Netscape 4.79, or upgrade to Netscape 6.2.</p>
4760714	<p data-bbox="239 529 889 555"><b>An invalid Help button appears in the Install Certificate screen.</b></p> <p data-bbox="239 572 1222 677">In the Install Certificate screen, which displays all the certificate information entered, an invalid Help button is present in the Administration interface. If you click this button, an error message is displayed indicating the help page was not found. Context-sensitive help is only available by clicking the Help link on the top frame of any page.</p> <p data-bbox="239 694 327 720"><b>Solution</b></p> <p data-bbox="239 737 815 760">Click the Help link in the top pane for context-sensitive help.</p>
4760939	<p data-bbox="239 777 1222 829"><b>SSL: A self-signed certificate generated by certutil is not displayed on the Certificate Nickname list.</b></p> <p data-bbox="239 847 1222 899">A self-signed certificate is generated by the <code>certutil</code> and Certificate Nickname is not displayed on the Administration interface.</p> <p data-bbox="239 916 327 942"><b>Solution</b></p> <p data-bbox="239 960 989 980">To use a self-signed certificate, you must manually edit the <code>server.xml</code> file.</p>
4848146	<p data-bbox="239 998 1143 1024"><b>Error occurs accessing the Administration interface if the browser uses a proxy server.</b></p> <p data-bbox="239 1041 1222 1093">If your browser is set to use a proxy server and the proxy server is not configured to ignore localhost, an error occurs when you choose Start Admin Console from the Start menu.</p> <p data-bbox="239 1111 327 1137"><b>Solution</b></p> <p data-bbox="239 1154 482 1177">Disable the proxy server.</p> <p data-bbox="239 1194 272 1220">OR</p> <p data-bbox="239 1237 951 1258">Include localhost in the list of domains to be ignored by their proxy server.</p>
4957860	<p data-bbox="239 1275 872 1302"><b>On Red Hat Enterprise Linux AS 3.0 Failed to add MIME type.</b></p> <p data-bbox="239 1319 1222 1371">When you attempt to add a MIME type to a MIME types file through the Administration interface, an error appears to prevent accessing the Global MIME Types page.</p> <p data-bbox="239 1388 327 1414"><b>Solution</b></p> <p data-bbox="239 1432 1143 1486">This problem happens because the default locale is set to <code>en_US.UTF-8</code> instead of <code>en_US</code>. The workaround is to set <code>export LANG=en_US</code>, then restart the Admin Server.</p>

ID	Summary
5011969	<p><b>On Solaris x86, HTTP listener and IOP listener pages in the Administration interface give errors.</b></p> <p><b>Solution</b></p> <p>The problem is caused by certain versions of <code>jss3.jar</code>. Two workarounds exist:</p> <ol style="list-style-type: none"> <li>1. For patch levels 115924-03, 115925-03, 115926-03, 115927-03, upgrade the SUNWjss package with a later version.</li> <li>2. Remove the path to <code>jss3.jar</code> from the server's classpath. To remove it, open <code>server.xml</code> for editing. Remove <code>usr/share/lib/mps/secv1/jss3.jar</code> from the classpath. This is the first entry in the classpath unless you have explicitly modified it. Save <code>server.xml</code> and run <code>asadmin reconfig</code>. Before starting your server instance, you also need to rename <code>jss3.jar</code>.</li> </ol>

## Sun ONE Studio 4 Plug-in

This section describes the known Sun ONE Studio 4, Enterprise Edition (formerly known as Forte for Java) issues and associated solutions.

ID	Summary
4689097	<p><b>Error occurs when spaces are specified in directories to be used by Sun ONE Studio 4.</b></p> <p>Sun ONE Studio 4 does not install correctly if a space is used in the directory structure. The installer checks for spaces in the install path, and, if found, displays an error dialog.</p> <p><b>Solution</b></p> <p>Do not use a space when specifying the install directory for the Sun ONE Studio 4 component of Sun ONE Application Server.</p>
4720145	<p><b>ConnectionException was thrown while establishing a connection to the debugger.</b></p> <p>Sun ONE Studio 4 prompts many times asking if you want to create a new debugging session and then throws the exception.</p> <p><b>Solution</b></p> <p>Restart the IDE.</p>
4727932	<p><b>Using MAD environment in FFJ causes side effects.</b></p> <p>Intermittent side effects occur when using MAD configurations with Sun ONE Studio 4.</p> <p><b>Solution</b></p> <p>Don't use Sun ONE Studio 4 with MAD configurations.</p>

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<b>ID</b>	<b>Summary</b>
<b>4725779</b>	<p data-bbox="237 239 1039 265"><b>Pre-configured Sun ONE specific property values do not appear in the editor.</b></p> <p data-bbox="237 279 1200 361">If you have a RAR file that has been configured for deployment to the Sun ONE Application Server, and try to look at the property values in the property sheet, you will see the default values, not the values specified in the <code>sun-ra.xml</code> file.</p> <p data-bbox="237 374 328 401"><b>Solution</b></p> <p data-bbox="237 414 1165 470">Extract the Sun-specific descriptor XML file from the RAR and put it in the same directory as the RAR. This allows you to edit the <code>slas</code> descriptors.</p> <p data-bbox="237 484 1216 539">NOTE: The original contents of the RAR file will not be changed as a result of user edits this way, but the RAR file sent to the server will have the updated XML file in it.</p>
<b>4733794</b>	<p data-bbox="237 557 922 583"><b>EJB name changes applied at Application node are undeployable.</b></p> <p data-bbox="237 597 1222 708">It is possible to change the <code>ejb-name</code> element of a bean in the context of an application by using the dialog presented when you select the View EJB Names item of an application node's contextual menu (right click menu). These changes are applied to the <code>alt-dd</code> that is created as part of the packaging. The name change is not propagated to the Sun ONE Application Server <code>alt-dd</code>.</p> <p data-bbox="237 722 328 748"><b>Solution</b></p> <p data-bbox="237 762 297 786">None.</p>

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ID	Summary
4745283	<p data-bbox="317 239 921 267"><b>If only Admin Client is installed, App Client cannot be run.</b></p> <p data-bbox="317 281 1292 336">If only Admin Client or Sun ONE Studio Plug-in is installed, you cannot run an App Client application. App Client is a separate package from Admin Client.</p> <p data-bbox="317 350 406 378"><b>Solution</b></p> <p data-bbox="317 392 1302 475">Install the App Client package. Get either a full installation (<code>appclient</code> script is under <code>SUNONE_INSTALL_ROOT/bin</code>), or get the <code>appclient</code> package from a remote machine where the Sun ONE Application Server installed.</p> <p data-bbox="317 489 606 517">To get <code>appclient</code> package:</p> <ol data-bbox="317 531 1049 558" style="list-style-type: none"> <li>1. Run <code>SUNONE_INSTALL_ROOT/bin/package-appclient[.bat]</code></li> </ol> <p data-bbox="317 572 968 621">This generates <code>appclient.jar</code> file in <code>SUNONE_INSTALL_ROOT/lib/appclient/appclient.jar</code></p> <ol data-bbox="317 635 1288 857" style="list-style-type: none"> <li>2. Distribute the <code>appclient.jar</code> to the remote machine that does not have the Sun ONE Application Server installed, then <code>unjar appclient.jar</code>. You should get an <code>appclient</code> directory containing all App Client libraries and JAR files.</li> <li>3. Modify the <code>bin/appclient</code> script that is packed in the <code>appclient.jar</code> file before first use. The <code>%CONFIG_HOME%</code> string should be substituted by the real path to <code>asenv.conf</code> (or <code>asenv.bat</code> for Windows 2000.)</li> <li>4. Configure <code>asenv.conf</code> (<code>asenv.bat</code> for Microsoft Windows) as follows:</li> </ol> <pre data-bbox="317 871 1120 1003"> %AS_INSTALL%=APPCLIENT_INSTALLED_ROOT %AS_JAVA%=Your_Installed_Java_Home %AS_IMQ_LIB%=APPCLIENT_INSTALLED_ROOT/imq/lib %AS_ACC_CONFIG%=APPCLIENT_INSTALLED_ROOT/config/sun-acc.xml %AS_WEBSERVICES_LIB%=APPCLIENT_INSTALLED_ROOT/lib </pre> <p data-bbox="317 1017 1302 1100">NOTE: The <code>appclient.jar</code> file is only intended to be run from a remote machine that has the same operating system as the machine where it was created. For example, <code>appclient.jar</code> created on a Solaris platform will not function on Windows 2000.</p> <p data-bbox="317 1114 845 1142">For details, see the <code>package-appclient</code> manpage.</p>

## Sample Applications

- The sample applications source is set up with an ANT directory structure and applications are not Sun Java Studio-oriented. For this reason, you do not see icons for EJB modules, and so on. Only source files can be seen if a sample's `src` folder is mounted.
- Although Sun Java Studio is ANT enabled, it cannot deploy the sample applications using an ANT target. In other words, running the `ANT target = all` command does not produce the same result as running an `ant all` command from the shell.
- Existing ANT-styled applications can be successfully compiled using Sun Java Studio (ANT through Sun Java Studio).

This section describes known Sun ONE Application Server 7 sample application issues, and the associated solutions.

ID	Summary
4714439	<p data-bbox="239 352 758 374"><b>In PetStore, cannot add a user that already exists.</b></p> <p data-bbox="239 392 1225 444">In the PetStore sample application, trying to add a user that already exists displays a stack trace on the screen.</p> <p data-bbox="239 461 325 484"><b>Solution</b></p> <p data-bbox="239 501 297 524">None.</p>
4726161	<p data-bbox="239 545 801 567"><b>Modified samples are not updated until redeployment.</b></p> <p data-bbox="239 585 1225 637">If users attempt to deploy a sample more than once, after making small changes and repackaging the application, the following error message is displayed.</p> <p data-bbox="311 654 554 677">"Already Deployed"</p> <p data-bbox="239 694 1225 746">This issue affects most of the samples since they use the Ant utility and the <code>common.xml</code> file, which have the "deploy" target, thus mixing deployment of applications with registration of resources.</p> <p data-bbox="239 763 325 786"><b>Solution</b></p> <p data-bbox="239 803 646 826">Choose one of the following workarounds:</p> <p data-bbox="239 843 1225 895">For the majority of the sample applications that use the Ant utility <code>build.xml</code> files, which include the <code>common.xml</code> file, type the following command.</p> <p data-bbox="239 913 529 935"><code>% asant deploy_common</code></p> <p data-bbox="239 953 853 975">For all other sample applications, type the following commands.</p> <p data-bbox="239 992 461 1015"><code>% asant undeploy</code></p> <p data-bbox="239 1032 432 1055"><code>% asant deploy</code></p>
4733412	<p data-bbox="239 1072 953 1095"><b>Sample application converter has redundant JAR file in web module.</b></p> <p data-bbox="239 1112 1225 1190">The converter application has a redundant stateless-converter EJB JAR file under the <code>WEB-INF/lib</code> directory. The EAR file is located under the sample application directory. From the bundled Solaris build, it is here:</p> <p data-bbox="239 1208 1200 1230"><code>/usr/appserver/samples/ejb/stateless/converter/stateless-converter.ear</code></p> <p data-bbox="239 1248 1225 1326">Extract this file and go to the <code>WEB-INF/lib</code> directory of the web module named <code>stateless-converter</code> and you will see the file. This redundant JAR file applies to all the web modules which call the EJB module. The root cause of the problem is the <code>common.xml</code> file used to build the application.</p> <p data-bbox="239 1343 325 1366"><b>Solution</b></p> <p data-bbox="239 1383 889 1406">None. Doesn't affect functionality when running sample application.</p>

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ID	Summary
4739854	<p data-bbox="315 239 946 269"><b>Instructions needed for deploying resources using asadmin.</b></p> <p data-bbox="315 279 1232 336">In the documentation for some samples, you are instructed to deploy the application using the <code>asadmin</code> command, but no explanation is provided on how to create the needed resources.</p> <p data-bbox="315 347 408 376"><b>Solution</b></p> <p data-bbox="315 387 1275 473">You can deploy the application/resource by using the <code>asadmin</code> command and can get more information by referring to the sample's <code>build.xml</code> file. More information can also be found in the printout from running <code>asant deploy</code>.</p> <p data-bbox="315 484 1269 571">For JDBC/BLOB example, the following steps create the resources using <code>asadmin</code> (assuming the hostname is <code>jackiel2</code> and the username/password/port for the Admin Server is <code>admin/adminadmin/4848</code>):</p> <pre data-bbox="315 581 1308 859">asadmin create-jdbc-connection-pool --port 4848 --host jackiel2 --password adminadmin --user admin jdbc-simple-pool --datasourceclassname com.pointbase.jdbc.jdbcDataSource --instance server1  asadmin set --port 4848 --host jackiel2 --password adminadmin --user admin  server1.jdbc-connection-pool.jdbc-simple-pool.property.DatabaseName=jdbc :pointbase:server://localhost/sun-appserv-samples</pre>
4747534	<p data-bbox="315 869 1250 899"><b>The lifecycle-multithreaded sample application asks for the admin user password 8 times.</b></p> <p data-bbox="315 909 1275 966">While deploying the sample application <code>lifecycle-multithreaded.jar</code> file using the <code>asant deploy</code> command, you are prompted to enter the admin user password eight times.</p> <p data-bbox="315 977 408 1006"><b>Solution</b></p> <p data-bbox="315 1017 379 1046">None.</p>

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ID	Summary
4748535	<p data-bbox="237 239 588 265"><b>Miscellaneous sample file issues.</b></p> <ol data-bbox="237 279 1039 390" style="list-style-type: none"> <li>1. Logging sample generates multiple log files, for the fourth logging option.</li> <li>2. Logging sample has a redundant <code>log.properties</code> file.</li> <li>3. Instructions for the security grant in sample documentation are not fully correct.</li> </ol> <p data-bbox="237 404 328 430"><b>Solution</b></p> <ol data-bbox="237 444 1178 470" style="list-style-type: none"> <li>1. Close the handler before removing it. See <code>initLog()</code> method in <code>GreeterServlet.java</code>.</li> </ol> <pre data-bbox="237 487 773 748">private void initLog(String log_type) {     //Remove all handlers     Handler[] h = logger.getHandlers();     for (int i = 0; i &lt; h.length; i++) {         h[i].close(); //must do this         logger.removeHandler(h[i]);     }     ... }</pre> <p data-bbox="237 765 1192 791">Also, open file handler with an append option. See <code>addHandler()</code> in <code>GreeterServlet.java</code>.</p> <p data-bbox="237 795 297 821">Write:</p> <pre data-bbox="237 835 853 861">Handler fh = new FileHandler(log_file, true);</pre> <p data-bbox="237 874 335 900">instead of</p> <pre data-bbox="237 914 773 940">Handler fh = new FileHandler(log_file);</pre> <ol data-bbox="237 954 1206 1171" style="list-style-type: none"> <li>2. Edit the <code>build.xml</code> file as follows: <pre data-bbox="237 999 1063 1100">&lt; fileset dir="\${src.docroot}" excludes="cvs,annontation"/&gt; &gt; &lt;fileset dir="\${src.docroot}" excludes="cvs,annontation,log.properties"/&gt;</pre> </li> <li>3. In "Running the Sample Application" section, remove <code>domains/domain1/</code> from instructions to adding security grant entries to the <code>server.policy</code> file.</li> </ol>
4752731	<p data-bbox="237 1185 682 1211"><b>PointBase 4.3 replaced with PointBase 4.4.</b></p> <p data-bbox="237 1225 1202 1307">When downloading and installing PointBase with the samples, (<a href="http://hostname:port/samples/docs/pointbase.html">http://hostname:port/samples/docs/pointbase.html</a>) the instructions refer to PointBase 4.3. However, PointBase 4.3 as been replaced by PointBase 4.4.</p> <p data-bbox="237 1321 328 1347"><b>Solution</b></p> <p data-bbox="237 1361 1192 1416">In the "Update Samples Ant Files" section, use the <code>pbtools44.jar</code> and <code>pbclient44.jar</code> files instead of the <code>pbtools43.jar</code> and <code>pbclient43.jar</code> files.</p> <p data-bbox="237 1430 1163 1486">In the "Starting PointBase" section, for PointBase downloaded and installed separately on UNIX platforms, use <code>pointbase_install_dir/tools/server/start_server</code> to start PointBase.</p>

ID	Summary
5012233	<p data-bbox="315 244 891 269"><b>Deployment failed on the connector sample cci.ear file.</b></p> <p data-bbox="315 284 1162 335">Displays an error saying external entity not found "http://www.sun.com/software/sunone/appserver/dtds/sun-application-client_1_3-0.dtd".</p> <p data-bbox="315 350 408 374"><b>Solution</b></p> <p data-bbox="315 390 1143 414">Modify <code>sun-application-client.xml</code> to have single quotes instead of double quotes.</p> <p data-bbox="315 430 401 454">Sample:</p> <pre data-bbox="315 470 1219 552">&lt;!DOCTYPE sun-application-client PUBLIC "-//Sun Microsystems, Inc.//DTD Sun ONE Application Server 7.0 Application Client 1.3//EN" 'http://www.sun.com/software/ sunone/appserver/dtds/sun-application-client_1_3-0.dtd'&gt;</pre>

## ORB/IIOP Listener

This section describes known ORB/IIOP-Listener issues and associated solutions.

ID	Summary
4743366	<p data-bbox="315 841 1286 866"><b>The address attribute in the iiop-listener element in the server.xml file does not support ANY.</b></p> <p data-bbox="315 881 1305 1015">In the default configuration, the Sun ONE Application Server is configured with the address value of "0.0.0.0" in the <code>iiop-listener</code> element. This default configuration does not listen on IPv6 interfaces. It only listens on all IPv4 interfaces on a system. The value of ANY in the address element of the <code>iiop-listener</code>, that would allow the server to listen on all interfaces (IPv4 or IPv6) on a system, is not supported.</p> <p data-bbox="315 1031 1293 1112">The ANY value in the address attribute of the <code>iiop-listener</code> element in the <code>server.xml</code> file allows for listening on all interfaces available on a system. This support includes both the IPv4 and IPv6 interfaces.</p> <p data-bbox="315 1128 408 1152"><b>Solution</b></p> <p data-bbox="315 1168 1305 1220">For both IPv4 and IPv6 interfaces, use ":" in the address value of the <code>iiop-listener</code> element. This solution is only applicable to Solaris 8.0 and above.</p>
4743419	<p data-bbox="315 1242 1290 1293"><b>RMI-IIOP clients will not work for IPv6 addresses where DNS address lookups fail for the IPv6 address.</b></p> <p data-bbox="315 1308 1265 1359">If a DNS lookup for an IPv6 address fails, clients of Remote Method Invocation-Internet Inter-ORB Protocol (RMI-IIOP) will not work for IPv6 addresses.</p> <p data-bbox="315 1374 408 1399"><b>Solution</b></p> <p data-bbox="315 1414 1253 1465">Domain Name Service (DNS) should be set up at the deployment site in order to look up an IPv6 address.</p>

ID	Summary
4810199	<p><b>The optimized CORBA Util delegate, which is bundled with Sun ONE Application Server 7.0 Standard Edition, is not enabled by default.</b></p> <p>A default installation of Sun ONE Application Server 7 does not enable the use of the high performance CORBA Util delegate. As a result, you might experience a significant decrease in performance when using the JDK-bundled or Sun ONE Application Server-bundled ORB.</p> <p>Refer to the “High performance CORBA Util Delegate Class” section in the “ORB Tuning” module of the <i>Sun ONE Application Server Performance Tuning Guide</i>.</p> <p><b>Solution</b></p> <p>You can improve performance significantly by enabling the use of a high performance CORBA Util Delegate implementation. To enable the alternate CORBA Util Delegate, add the following to the Sun ONE Application Server configuration file, <code>server.xml</code>:</p> <pre data-bbox="239 614 1196 666">&lt;jvm-options&gt;-Djavax.rmi.CORBA.UtilClass=com.ipplanet.ias.util.orbutil.IasUtilDelegate&lt;/jvm-options&gt;</pre>
4847269	<p><b>The J2SE 1.3.1_X client cannot communicate with Sun ONE Application Server 7.</b></p> <p>When the J2SE 1.3.1_X client communicates with Sun ONE Application Server 7, the client will core dump.</p> <p><b>Solution</b></p> <p>Use J2SE 1.3.1_04 for the client.</p>

## Internationalization (i18n)

This section describes known internalization issues and the associated solutions.

ID	Summary
4761017	<p><b>On Solaris bundled version: Administration interface displays in English.</b></p> <p>Because there is no language entry for Admin Server instance on the Solaris bundled version, the Sun ONE Application Server Administration interface displays in English for the localized version.</p> <p><b>Solution</b></p> <p>Manually set the locale entry in the <code>server.xml</code> file</p>
4957904	<p><b>User cannot launch the Chinese version of the Administration interface after installation.</b></p> <p>After installing the Chinese version of Sun ONE Application Server, the Administration interface displays in English.</p> <p><b>Solution</b></p> <p>Manually set the locale entry in the <code>server.xml</code> file and restart the server.</p>

ID	Summary
N/A	<p data-bbox="315 244 1103 269"><b>On Solaris, there are limitations associated with the Netscape 4.79 browser.</b></p> <ul data-bbox="315 284 1300 404" style="list-style-type: none"> <li data-bbox="315 284 1300 335">• When using Netscape 4.79 on Solaris, localized JavaScript messages display garbled characters. JavaScript cannot handle UTF-8 encoding.</li> <li data-bbox="315 350 1300 404">• When using Netscape 4.79 on Solaris in the Chinese GB18030 locale, GB18030 characters are not accepted.</li> </ul> <p data-bbox="315 420 408 444"><b>Solution</b></p> <p data-bbox="315 460 1205 482">On the Sun web site, download Netscape 6.23 or 7.0 for Solaris. This solves both problems.</p>
6206333	<p data-bbox="315 505 1258 555"><b>On Microsoft Windows, accessing the Edit MIME Files page in the Administration interface causes an internal error in the simplified Chinese version.</b></p> <p data-bbox="315 571 408 595"><b>Solution</b></p> <p data-bbox="315 611 925 635">Edit the <code>mime.type</code> file using a text editor. The file is located at:</p> <p data-bbox="315 640 1093 664"><code>install_dir/Appserver7/domains/domain_name/instance_name/config/mime.type</code></p> <p data-bbox="315 680 446 704">For example:</p> <p data-bbox="315 720 969 744"><code>C:\Sun\Appserver7\domains\domain1\server1\config\mime.type</code></p>

## Documentation

This section describes the known documentation issues and associated solutions.

ID	Summary
4839719	<p data-bbox="315 1034 1240 1058"><b>Developer's Guide to Web Applications: Description of cookieName property misleading.</b></p> <p data-bbox="315 1074 1276 1182">In the <i>Developer's Guide to Web Applications</i>, the documentation of the <code>sun-web.xml</code> file lists the <code>cookieName</code> property of the <code>cookie-properties</code> subelement and implies that the value of the <code>cookieName</code> property can be changed from the default value. However, the value cannot be changed; it must always be <code>JSESSIONID</code>.</p> <p data-bbox="315 1197 408 1222"><b>Solution</b></p> <p data-bbox="315 1237 376 1262">None.</p>

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ID	Summary
4720171	<p data-bbox="237 239 1249 265"><b>There is no documentation explaining the use of indexed deployment directories.</b></p> <p data-bbox="237 279 1249 444">The numbering scheme part of a deployed application's directory name has been implemented as an indexing mechanism to allow a developer to modify a JAR and/or class file associated with the deployed application. This is significant to the Windows platform due to a sharing violation error that occurs during an attempt to overwrite a loaded file; Windows places a file lock on the loaded file. The file is loaded into the server instance or the IDE during session startup. With the sharing violation error, two options are possible:</p> <ul data-bbox="237 458 1249 583" style="list-style-type: none"><li data-bbox="237 458 1249 539">• Compile the updated class file (originally part of that JAR file) and place it first in the classpath in order to be loaded before the older classes, then allow for the Sun ONE Application Server to reload this application (as long as reload is active), OR</li><li data-bbox="237 553 1249 583">• Update the JAR file, create a new EAR file, and redeploy the application.</li></ul> <p data-bbox="237 597 1249 649">NOTE: Redeployment of the application on the Solaris platform is not necessary since there are no file locking constraints.</p> <p data-bbox="237 663 328 689"><b>Solution</b></p> <p data-bbox="237 703 1249 841">When making changes to an already deployed application on the Windows platform for IDE setup, ANT file copy, or compile or other operations, note that a new directory will be created with an incremented index number as the workaround for the file locking constraint. For example: On the Solaris platform the J2EE application, helloworld, is deployed to the Sun ONE Application Server with the following directory structure:</p> <pre data-bbox="237 855 1249 881">appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_1</pre> <p data-bbox="237 895 1249 1060">A change is then to be made to a servlet that's part of this deployed application (for example, <code>HelloServlet.java</code>). The Sun Java Studio IDE is started, the source file for this servlet is changed and compiled with the <code>javac</code> target set to the above directory. With the source compiled to the proper location, a reload file exists for this application, the reload flag in <code>server.xml</code> is set to true, and, with the server instance running, the changes take effect without having to reassemble the application and redeploy it.</p> <p data-bbox="237 1074 1249 1126">For the Windows platform, the JAR or class file cannot be altered and updated due to the file locking issue. Therefore, there are two methods of dealing with this issue on Windows:</p> <ul data-bbox="237 1140 1249 1265" style="list-style-type: none"><li data-bbox="237 1140 1249 1201">• Compile the changed source file and prepend the class file or JAR in the classpath in order to have the source changes picked up, OR</li><li data-bbox="237 1213 1249 1265">• Make the changes to the helloworld source, assemble it, and redeploy it without undeploying the previous deployment of helloworld.</li></ul> <p data-bbox="237 1279 1249 1361">The second option is the preferred method since this option results in the use of the incremented index number appended to the deployed application's directory name. Therefore, after a second deployment of helloworld, the directory structures would be:</p> <pre data-bbox="237 1374 1249 1435">appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_1 appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_2</pre> <p data-bbox="237 1449 1249 1475">The second deployment of helloworld would be deployed under <code>helloworld_2</code>.</p>

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ID	Summary
4851218	<p data-bbox="315 244 1165 269"><b>You cannot use keytool to generate certificates with Sun ONE Application Server.</b></p> <p data-bbox="315 284 1169 309">Certificates generated with keytool are not compatible with Sun ONE Application Server.</p> <p data-bbox="315 324 408 348"><b>Solution</b></p> <p data-bbox="315 364 1300 418">You can use <code>certutil</code> to generate self-signed certificates. It is available as an add-on to the Sun ONE Application Server at:</p> <p data-bbox="315 434 872 458"><a href="http://www.sun.com/software/download/app_servers.html">http://www.sun.com/software/download/app_servers.html</a></p> <p data-bbox="315 473 705 498">For information on using <code>certutil</code>, see:</p> <p data-bbox="315 513 1015 538"><a href="http://www.mozilla.org/projects/security/pki/nss/tools/certutil.html">http://www.mozilla.org/projects/security/pki/nss/tools/certutil.html</a></p>
4870888	<p data-bbox="315 560 901 585"><b>Getting Started Guide built into the product is incorrect.</b></p> <p data-bbox="315 600 1300 654">The <i>Getting Started Guide</i> that is built into the product contains incorrect information regarding platforms and sizing. It also is not fully 508-compliant.</p> <p data-bbox="315 670 408 694"><b>Solution</b></p> <p data-bbox="315 710 1300 763">For correct platform and sizing information, refer to the <i>Installation Guide</i> or the <i>Platform Summary</i>. For a 508-compliant version of the <i>Getting Started Guide</i>, see the version posted here:</p> <p data-bbox="362 779 601 803"><a href="http://docs.sun.com">http://docs.sun.com</a></p>
4875280	<p data-bbox="315 824 786 848"><b>Online help has some incorrect descriptions.</b></p> <p data-bbox="315 864 408 888"><b>Solution</b></p> <ul data-bbox="315 904 636 928" style="list-style-type: none"><li data-bbox="315 904 636 928">• In the <code>asprfhls.html</code> file:</li></ul> <p data-bbox="315 944 1290 998">Determines whether SSL3 is enabled. For administrative purposes, deselecting SSL2 and using TLS only is recommended. (file name <code>asprfhls.html</code>)</p> <p data-bbox="315 1013 862 1038">If your browser does not support TLS, then select SSL3.</p> <p data-bbox="315 1053 544 1078">Instead, this should be:</p> <p data-bbox="315 1093 1290 1147">Determines whether SSL3 is enabled. For administrative purposes, deselecting SSL3 and using TLS only is recommended.</p> <p data-bbox="315 1163 862 1187">If your browser does not support TLS, then select SSL3.</p> <ul data-bbox="315 1203 572 1227" style="list-style-type: none"><li data-bbox="315 1203 572 1227">• In the <code>asprflo.html</code> file:</li></ul> <p data-bbox="315 1242 472 1267">Create Console</p> <p data-bbox="315 1282 1065 1307">(Window only). When checked, a console window is created for stderr output.</p> <p data-bbox="315 1322 544 1347">Instead, this should be:</p> <p data-bbox="315 1362 472 1388">Create Console</p> <p data-bbox="315 1404 1076 1428">(Windows only). When checked, a console window is created for stderr output.</p>

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ID	Summary
4884043	<b>Configuration File Reference: Transmit File parameter default is stated incorrectly.</b> <b>Solution</b> The document description for the <code>TransmitFile</code> parameter in the <code>nsfc.conf</code> file specifies the following default: (for Unix) i.e. <code>TransmitFile=off</code> This is incorrect. The Transmit File check box by default is "enabled". As described in the document, it should have been disabled.
4890285	<b>Some documents are not updated for the Solaris x86 platform.</b> In documents that list supported platforms for Sun ONE Application Server, the Solaris x86 platform might not be included. For the latest platform information, see the <i>Platform Summary</i> . <b>Developer's Guide to NSAPI:</b> Where the manual refers to SPARC, the references should be to Solaris (Solaris includes SPARC and x86). On Page 158 and 159, SPARC should not be specified. <b>Solution</b> Refer to " <a href="#">Solaris x86 Limitations</a> " on page 4 for a list of Solaris x86 limitations in this release. The documentation does not always specify these limitations.
4893954	<b>Administrator's Guide doesn't include the information that log rotation using the Solaris cron script restarts the Sun ONE Application Server.</b> <b>Solution</b> Two types of log rotation are available: Internal-daemon log rotation happens within the HTTP daemon, and can only be configured at startup time. Internal daemon log rotation allows the server to rotate logs internally without requiring a server restart. Scheduler-based (cron-based) log rotation is initialized at server startup. If rotation is turned on, the server creates a time-stamped access log file and rotation starts at server startup. This type log rotation internally calls the <code>rotateLog</code> script, which restarts the application server process.
4896094	<b>Administrator's Guide: Need instructions for setting ACC_CONFIG variable at installation.</b> <b>Solution</b> There are no instructions in the documentation for setting the <code>ACC_CONFIG</code> variable after creating domain and server instances. After the "Deploying Applications" section in the <i>Sun ONE Application Server Administrator's Guide</i> , the following text needs to be added: In addition to the above steps, you need to modify the <code>asenv.conf</code> file. After creating the domains, set the value of the <code>AS_ACC_CONFIG</code> variable to the <code>sun-acc.xml</code> file located in the <code>server_instance_config</code> directory. If this value is not set properly, you might get errors while running the applications related to the Application Client Container (ACC). For example: <code>AS_ACC_CONFIG=/var/appserver/domains/domain1/server1/config/sun-acc.xml</code> where <code>server1</code> is the application server instance you have created.

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ID	Summary
4913290	<p data-bbox="315 244 1115 267"><b>Form Based Authentication does not provide the same functionality as in 6.5</b></p> <p data-bbox="315 284 1302 361">Applications developed on iPlanet Application Server 6.5 that use form-based authentication can pass the request parameters to the Authentication Form or the Login page. The Login page could be customized to display the authentication parameters based on the input parameters.</p> <p data-bbox="315 378 408 401"><b>Solution</b></p> <p data-bbox="315 418 1302 553">Sun ONE Application Server 7 does not support the passing of request parameters while displaying the Login page. The applications that uses form-based authentication, which passes the request parameters can not be migrated to Sun ONE Application Server 7. Porting such applications to Application Server 7 requires significant changes in the code. Instead, you can store the input parameters in the session which can be retrieved during the display of Login page.</p> <p data-bbox="315 571 891 593">The following code example demonstrates the workaround:</p> <p data-bbox="315 611 634 633">Before changing the code in 6.5:</p> <pre data-bbox="365 651 1239 1258"> -----index-65.jsp ----- &lt;%@page contentType="text/html"%&gt; &lt;html&gt; &lt;head&gt;&lt;title&gt;JSP Page&lt;/title&gt;&lt;/head&gt; &lt;body&gt; go to the &lt;a href="secured/page.jsp?arg1=test&amp;arg2=me"&gt;secured area&lt;/a&gt; &lt;/body&gt; &lt;/html&gt;  -----login-65.jsp----- &lt;%@page contentType="text/html"%&gt; &lt;html&gt; &lt;head&gt; &lt;/head&gt; &lt;body&gt; &lt;!-- Print login form --&gt; &lt;h3&gt;Parameters&lt;/h3&gt;&lt;br&gt; &lt;%out.println("arg1 is " + request.getParameter("arg1")); %&gt; &lt;%out.println("arg2 is " + request.getParameter("arg2")); %&gt;; &lt;/body&gt; &lt;/html&gt; </pre>

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ID	Summary
<b>4913290</b> (Continued)	<p data-bbox="237 239 536 265">After changing the code in 7.0:</p> <pre data-bbox="285 282 939 586">-----index-7.jsp -----  &lt;%@page contentType="text/html"%&gt; &lt;html&gt; &lt;head&gt;&lt;title&gt;JSP Page&lt;/title&gt;&lt;/head&gt; &lt;body&gt; &lt;%session.setAttribute("arg1","test"); %&gt; &lt;%session.setAttribute("arg2","me"); %&gt; go to the &lt;a href="secured/page.jsp"&gt;secured area&lt;/a&gt; &lt;/body&gt; &lt;/html&gt;</pre> <p data-bbox="237 609 998 635">The index-7.jsp shows how you can store the request parameters in a session.</p> <pre data-bbox="285 652 1148 1012">-----login-7.jsp-----  &lt;%@page contentType="text/html"%&gt; &lt;html&gt; &lt;head&gt; &lt;/head&gt; &lt;body&gt; &lt;!-- Print login form --&gt; &lt;h3&gt;Parameters&lt;/h3&gt;&lt;br&gt; &lt;!--retrieving the parameters from the session --&gt; &lt;%out.println("arg1 is " + (String)session.getAttribute("arg1")); %&gt; &lt;%&gt;out.println("arg2 is " + (String)session.getAttribute("arg2")); %&gt; &lt;/body&gt; &lt;/html&gt;</pre>

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ID	Summary
4913611	<p data-bbox="315 244 825 269"><b>J2EE spec incompatibilities are not documented.</b></p> <p data-bbox="315 284 405 309"><b>Solution</b></p> <p data-bbox="315 324 1302 374"><b>Developer's Guide to Web Applications:</b> The following note applies to the description of the delegate attribute:</p> <p data-bbox="315 390 1302 499">"If the delegate flag is set to its default value of false, the classloader delegation behavior complies with the Servlet 2.3 specification, section 9.7.2. If set to true, classes and resources residing in container-wide library JAR files are loaded in preference to classes and resources packaged within the WAR file, contrary to what this specification recommends.</p> <p data-bbox="315 515 1302 591">Portable programs that use this flag should not be packaged with any classes or interfaces that are a part of the J2EE specification. The behavior of a program that includes such classes or interfaces in its WAR file is undefined."</p> <p data-bbox="315 607 1229 659"><b>Developer's Guide and the Developer's Guide to Enterprise JavaBeans Technology:</b> The following note applies to the descriptions of the pass-by-reference element:</p> <p data-bbox="315 675 1302 751">"If the pass-by-reference flag is set to its default value of false, the passing semantics for calls to remote interfaces comply with the EJB 2.0 specification, section 5.4. If set to true, remote calls involve pass-by-reference semantics instead of pass-by-value semantics, contrary to this specification.</p> <p data-bbox="315 767 1302 911">Portable programs should not assume that a copy of the object is made during such a call, and thus that it's safe to modify the original. Nor should they assume that a copy is not made, and thus that changes to the object are visible to both caller and callee. When this flag is set, parameters and return values should be considered read-only. The behavior of a program that modifies such parameters or return values is undefined."</p>
4915451	<p data-bbox="315 927 1168 951"><b>The definition of idle-timeout-in-seconds in the Administrator's Guide is incorrect.</b></p> <p data-bbox="315 966 405 991"><b>Solution</b></p> <p data-bbox="315 1006 1302 1058">In <i>Sun ONE Application Server Administrator's Guide</i> Chapter 6, Monitoring the Sun ONE Application Server, the definition of idle-timeout-in-seconds includes the following sentence:</p> <p data-bbox="315 1074 1302 1128">If the current size is less than <code>steady-pool-size</code>, it is increased by <code>pool-resize-quantity</code>, with a ceiling of <code>min (current-pool-size+pool + resize-quantity, max-pool-size)</code>.</p> <p data-bbox="315 1144 579 1168">This should be changed to:</p> <p data-bbox="315 1183 1302 1237">If the current size is less than <code>steady-pool-size</code>, it is increased by <code>pool-resize-quantity</code>, with a ceiling of <code>min (current-pool-size + pool-resize-quantity, max-pool-size)</code>.</p>

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ID	Summary
4950035, 4976502, 5024804	<p data-bbox="239 239 1162 291"><b>The information on enabling statistics with stats-xml in the Performance Tuning Guide is incorrect.</b></p> <p data-bbox="239 309 328 335"><b>Solution</b></p> <p data-bbox="239 352 1196 404">In the <i>Sun ONE Application Server Performance Tuning Guide</i> in the "Tuning Sun ONE Application Server" chapter, the description of enabling statistics with <code>stats-xml</code> contains the following errors:</p> <ul data-bbox="239 421 1196 482" style="list-style-type: none"><li data-bbox="239 421 1196 447">• You must make the change to the <code>instance_name-obj.conf</code> file, not the <code>obj.conf</code> file as stated.</li><li data-bbox="239 465 675 482">• The example is incorrect. The entries for:<pre data-bbox="332 508 1162 578">NameTrans fn="assign-name" from="/stats-xml/*" name="stats-xml" and NameTrans fn=assign-name from="/.perf" name="perf"</pre>must appear before the line:<pre data-bbox="332 638 848 656">NameTrans fn=document-root root="\$docroot"</pre>otherwise they'll be ignored. The current example does not have the lines in the correct order.</li></ul> <p data-bbox="239 725 853 743">• The introductions to Figure 4.1 and Figure 4.2 are incorrect.</p> <p data-bbox="239 769 1162 812">Figure 4.1 should say that it shows a sample <code>instance_name-obj.conf</code> file which has <code>stats-xml</code> enabled.</p> <p data-bbox="239 838 1118 855">Figure 4.2 should say that is shows a sample <code>init.conf</code> file which has <code>stats-xml</code> enabled.</p>

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ID	Summary
4983280, 4992520, 6078104	<p data-bbox="315 244 905 267"><b>Web server plug-in installation instructions are incorrect</b></p> <p data-bbox="315 284 1300 335">In the <i>Sun ONE Application Server Administrator's Guide</i>, the instructions for installing the web server plug-in are incorrect.</p> <p data-bbox="315 352 408 374"><b>Solution</b></p> <p data-bbox="315 392 668 414">The procedure should be as follows:</p> <p data-bbox="315 432 651 454">Changes to Sun ONE Web Server</p> <p data-bbox="315 472 1229 522">Take backups of critical configuration files, such as <code>magnus.conf</code> and <code>obj.conf</code>, before making changes to these files.</p> <ol data-bbox="315 539 1300 590" style="list-style-type: none"> <li data-bbox="315 539 1300 590">1. Create a directory in the web server installation area that will contain the web server (passthrough) plug-in. For example: <pre data-bbox="365 612 686 682">cd /webservice_install_dir/plugins mkdir -p passthrough/bin</pre> </li> <li data-bbox="315 699 1300 749">2. Copy the passthrough plug-in from Sun ONE Application Server installation to this new, web server directory. For example: <pre data-bbox="365 772 1086 841">cd appserver_install_dir/lib cp libpassthrough.so webservice_install_dir/plugins/passthrough/bin</pre> <p data-bbox="315 859 753 881">For Windows, copy the <code>passthrough.dll</code> file.</p> </li> <li data-bbox="315 899 1300 949">3. Edit the <code>magnus.conf</code> file, found under <code>webservice_install_dir/https-host.domain/config</code>, and append the following lines. These lines need to be entered as 2 lines, each starting with <code>Init</code>. <pre data-bbox="365 972 1290 1083">Init fn=load-modules shlib="your_app_server_install/lib/libpassthrough.so     "funcs="init-passthrough,auth-passthrough,check-passthrough,     service-passthrough"NativeThread="no" Init fn="init-passthrough"</pre> </li> <li data-bbox="315 1100 1300 1315">4. Edit the web server's <code>obj.conf</code> file, found under <code>webservice_install_dir/https-host.domain/config</code>, and add the <code>NameTrans</code> directive. It must be entered on a single line. The <code>NameTrans</code> directives are executed in the order they appear, so make sure your addition is in proper position. If in doubt, put it above all other <code>NameTrans</code> directives. Be careful with whitespace (spaces/tabs) in this file. The way <code>obj.conf</code> gets parsed causes lines that start with whitespace to be ignored, since they are considered to be part of the previous line's directive. The example below only redirects for a context root named "webapp-context". Add more context root names for multiple applications, or use a catch-all directive: <code>from="/*"</code> <pre data-bbox="365 1338 1200 1420">&lt;Object name="default"&gt;   NameTrans fn="assign-name" from="( /webapp-context   /webapp-context/* )     "name="passthrough"   ... &lt;/Object&gt;</pre> </li> </ol>

ID	Summary
<b>4983280,</b> <b>4992520,</b> <b>6078104</b> (Continued)	<p>5. For Sun ONE Web Server 6.0, add the following lines in the web server's <code>obj.conf</code> file. Replace <code>app_server.domain:port</code> with the server name and port number of your Sun ONE Application Server. Note that you need to enter the <code>Service</code> line as one line.</p> <pre>Object name="passthrough"&gt; ObjectType fn="force-type" type="magnus-internal/passthrough" PathCheck fn="deny-existence" path="*/WEB-INF/*" Service type="magnus-internal/passthrough" fn="service-passthrough"         servers="http://app_server.domain:port" Error reason="Bad Gateway" fn="send-error" uri="/badgateway.html" &lt;/Object&gt;</pre> <p>6. For Sun ONE Web Server 6.1, add the following lines in the web server's <code>obj.conf</code> file. Replace <code>app_server.domain:port</code> with the server name and port number of your Sun ONE Application Server. Note that you need to enter the <code>Service</code> line as one line.</p> <pre>Object name="passthrough"&gt; PathCheck fn="deny-existence" path="*/WEB-INF/*" Service type="magnus-internal/passthrough" fn="service-passthrough"         servers="http://app_server.domain:port" Error reason="Bad Gateway" fn="send-error" uri="/badgateway.html" &lt;/Object&gt;</pre> <p>7. Restart the Sun ONE Web Server instance.</p> <p>If required for authentication reasons, on the Sun ONE Application Server you may need to change <code>init.conf</code> and <code>server_name-obj.conf</code>. These steps are required if you have a web server running in SSL mode while the Sun ONE Application Server is non-SSL. In this case any redirects fail unless you add the lines below to the proper Sun ONE Application Server files. If you don't need this information, skip these steps:</p> <p>8. In <code>app_server_instance/config/init.conf</code>, add the following lines as two lines, each starting with <code>Init</code>:</p> <pre>Init fn="load-modules" shlib="/app_server_install/lib/libpassthrough.so"         funcs="init-passthrough,auth-passthrough,check-passthrough,         service-passthrough"shlib_flags="(global now)" Init fn="init-passthrough"</pre> <p>9. In <code>/domain/server_instance/config/server_instance-obj.conf</code>, enter the following lines:</p> <pre>&lt;Object name="default"&gt; AuthTrans fn="match-browser" browser="*MSIE*" ssl-unclean-shutdown="true" AuthTrans fn="auth-passthrough" .... &lt;/Object&gt;</pre>

ID	Summary
4986222	<p data-bbox="315 244 718 269"><b>Clarify documentation relating to JMS.</b></p> <p data-bbox="315 284 1269 309">The documentation refers to an incorrect version of the Sun ONE Message Queue documentation.</p> <p data-bbox="315 324 1300 401">The description of the <code>server.xml jms-service</code> property <code>instance-name</code> is incorrect in the <i>Administrator's Configuration File Reference</i> and in the <i>Developer's Guide to J2EE Features and Services</i> is incorrect.</p> <p data-bbox="315 416 408 440"><b>Solution</b></p> <p data-bbox="315 456 1093 512">For the correct version of the Sun ONE Message Queue documentation, refer to <a href="http://docs.sun.com/db/prod/s1.s1msgqu">http://docs.sun.com/db/prod/s1.s1msgqu</a>.</p> <p data-bbox="315 527 1275 609">The documentation for the <code>jms-service</code> property <code>instance-name</code> says that the Sun ONE Message Queue broker instance name is always the concatenation of the domain and server instance name. That is not true. You can use any name.</p>
5003309	<p data-bbox="315 624 1300 649"><b>Administrator's Guide: the section titled "Deploying Static Content" contains an incorrect URL.</b></p> <p data-bbox="315 664 408 689"><b>Solution</b></p> <p data-bbox="315 704 412 729">The URL:</p> <p data-bbox="315 744 825 769"><code>http://server:port/NASApp/&amp;ltcontext_root/index.html</code></p> <p data-bbox="315 784 422 808">Should be:</p> <p data-bbox="315 824 715 848"><code>http://server:port/tcontext_root/index.html</code></p>
N/A	<p data-bbox="315 873 961 897"><b>J2EE CA SPI Administrator's Guide refers to wrong book title.</b></p> <p data-bbox="315 913 1262 968">The <i>Sun ONE Application Server J2EE CA SPI Administrator's Guide</i> refers to <i>Sun ONE Application Server J2EE CA SPI Developer's Guide</i>. This title is incorrect.</p> <p data-bbox="315 984 408 1008"><b>Solution</b></p> <p data-bbox="315 1024 1098 1048">These references should be to the <i>Sun ONE Application Server Developer's Guide</i>.</p>
N/A	<p data-bbox="315 1065 1300 1121"><b>Sun ONE Application Server Administrator's Guide doesn't document using escape characters for the <code>asadmin</code> utility properly for Linux.</b></p> <p data-bbox="315 1137 408 1161"><b>Solution</b></p> <p data-bbox="315 1177 1300 1308">When using the <code>asadmin</code> command in multimode on Linux, use a single backslash character to escape reserved characters such as colons. For example:  <pre>create-jdbc-connection-pool --datasourceclassname oracle.jdbc.pool.OracleDataSource --property url=jdbc\:oracle\thin\:@1asperf\1521\ntdb01":user=testprod:password=testprod rekla-pool</pre></p> <p data-bbox="315 1324 1300 1348">The value of the URL property will then be stored with the proper syntax for a JDBC connection string</p>

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ID	Summary
5015994	<p data-bbox="237 239 1249 265"><b>Additional recommended configurations to improve performance.</b></p> <p data-bbox="237 279 1249 305"><b>Solution</b></p> <p data-bbox="237 319 1249 401">If you change the default Sun ONE Application Server configuration by using the settings described below, you may see improved performance. These settings are found in your server instance's <code>server.xml</code> file.</p> <p data-bbox="237 414 1249 440">Add or change the following settings:</p> <pre data-bbox="237 454 1249 812">&lt;jvm-options&gt;-server -Xss128k&lt;/jvm-options&gt; &lt;jvm-options&gt;-Xms256m -Xmx256m&lt;/jvm-options&gt; &lt;jvm-options&gt;-XX:+AggressiveHeap&lt;/jvm-options&gt; &lt;jvm-options&gt;-XX:+DisableExplicitGC&lt;/jvm-options&gt; &lt;jvm-options&gt;-Djavax.rmi.CORBA.UtilClass=com.ipplanet.ias.util.orbutil.IasUtilDelegate &lt;/jvm-options&gt; &lt;orb message-fragment-size="1024" steady-thread-pool-size="40" max-thread-pool-size="70" idle-thread-timeout-in-seconds="300" max-connections="1024" monitoring-enabled="false"/&gt; &lt;mdb-container steady-pool-size="32" pool-resize-quantity="16" max-pool-size="1024" idle-timeout-in-seconds="600" monitoring-enabled="false"&gt;</pre> <p data-bbox="237 826 1249 852">Remove the following setting:</p> <pre data-bbox="237 866 1249 892">&lt;jvm-options&gt;-Dsun.rmi.dgc.server.gcInterval=3600000&lt;/jvm-options&gt;</pre> <p data-bbox="237 906 1249 972">In addition, if the machine has enough memory, you should increase the initial heap size to 1024M (3500M on Solaris systems).</p>

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ID	Summary												
5031531	<p data-bbox="315 244 1222 269"><b>The Performance Tuning Guide does not include information on maximum heap space.</b></p> <p data-bbox="315 282 406 307"><b>Solution</b></p> <p data-bbox="315 326 843 350">The maximum heap space depends of various factors:</p> <ul data-bbox="315 366 875 473" style="list-style-type: none"> <li data-bbox="315 366 819 390">• Maximum address space for a process (<code>maxPAS</code>)</li> <li data-bbox="315 406 875 430">• Space that the process needs for stack space (<code>stack</code>)</li> <li data-bbox="315 446 825 470">• Space that the process needs for libraries (<code>libs</code>)</li> </ul> <p data-bbox="315 489 993 513">The following equation shows the value for the maximum heap space:</p> $\text{MaxHeapSpace} = \text{maxPAS} - \text{stack} - \text{libs}$ <p data-bbox="315 574 908 598">The maximum address space per process varies by platform:</p> <table data-bbox="362 616 751 869"> <tbody> <tr> <td>x86 / Redhat Linux 32 bit</td> <td>2 GB</td> </tr> <tr> <td>x86 / Redhat Linux 64 bit</td> <td>3 GB</td> </tr> <tr> <td>x86 / Win98/2000/NT/Me/XP</td> <td>2 GB</td> </tr> <tr> <td>x86 / Solaris x86 (32 bit)</td> <td>4 GB</td> </tr> <tr> <td>Sparc / Solaris 32 bit</td> <td>4 GB</td> </tr> <tr> <td>Sparc / Solaris 64 bit</td> <td>terabytes</td> </tr> </tbody> </table> <p data-bbox="315 888 901 913">Stack space and library space vary by individual application.</p>	x86 / Redhat Linux 32 bit	2 GB	x86 / Redhat Linux 64 bit	3 GB	x86 / Win98/2000/NT/Me/XP	2 GB	x86 / Solaris x86 (32 bit)	4 GB	Sparc / Solaris 32 bit	4 GB	Sparc / Solaris 64 bit	terabytes
x86 / Redhat Linux 32 bit	2 GB												
x86 / Redhat Linux 64 bit	3 GB												
x86 / Win98/2000/NT/Me/XP	2 GB												
x86 / Solaris x86 (32 bit)	4 GB												
Sparc / Solaris 32 bit	4 GB												
Sparc / Solaris 64 bit	terabytes												
6156869	<p data-bbox="315 933 1258 982"><b>No documentation on migrating from Sun ONE Message Queue 3.0.1 to Sun ONE Message Queue 3.5</b></p> <p data-bbox="315 1001 1300 1109">Sun ONE Application Server 7 is shipped with Sun ONE Message Queue 3.01. However, Sun ONE Message Queue 3.5 is also supported. To migrate from Sun ONE Message Queue 3.01 to Sun ONE Message Queue 3.5, follow the instructions in the <i>Sun ONE Message Queue Installation Guide</i> on the docs.sun.com web site. See:</p> <p data-bbox="315 1124 872 1149"><a href="http://docs.sun.com/source/817-3725/intro.html#wp23155">http://docs.sun.com/source/817-3725/intro.html#wp23155</a></p>												
N/A	<p data-bbox="315 1170 686 1194"><b>Version of Xerces not documented.</b></p> <p data-bbox="315 1209 1229 1234">Sun ONE Application Server 7 supports LibXerces version 1.2 and Xerces2 Java Parser 2.6.2.</p>												

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## Redistributable Files

Sun ONE Application Server 7 does not contain any files which you can redistribute.

# How to Report Problems and Provide Feedback

If you have problems with Sun ONE Application Server, contact Sun customer support using one of the following mechanisms:

- Sun Software Support services online at <http://www.sun.com/service/sunone/software>

This site has links to the Knowledge Base, Online Support Center, and ProductTracker, as well as to maintenance programs and support contact numbers.

- The telephone dispatch number associated with your maintenance contract

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

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

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# Additional Sun Resources

Useful Sun ONE information can be found at the following Internet locations:

- **Sun ONE Application Server product documentation:**  
<http://docs.sun.com/db/prod/sl.asse>
- **Sun ONE Documentation**  
<http://docs.sun.com/prod/sunone>
- **Sun ONE Professional Services**  
<http://www.sun.com/service/sunps/sunone>
- **Sun Software Products and Service**  
<http://www.sun.com/software>
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