

# Sun™ Java System Application Server 7 Release Notes

(Formerly Sun ONE Application Server)

Version 7, Update 4

Part Number 817-7241

May 2004

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These release notes contain important information available at the time of the Update 4 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 4 product.

This document contains the following sections:

- [Release Notes Revision History](#)
- [About Sun ONE Application Server, Version 7, Update 4](#)
- [Bugs Fixed in This Release](#)
- [Important Information](#)
- [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
May 2004	Initial release of Sun ONE Application Server 7, Update 4.

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## About Sun ONE Application Server, Version 7, Update 4

The 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>

## Requirements and Limitations

Information on the platform requirements for the Sun ONE Application Server 7 Update 4 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](#)

## Platform Requirements

The following table summarizes the Sun ONE Application Server 7, Update 4 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.

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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 4 product.

**Table 3** Fixed Bugs in Application Server 7, Update 4

Bug Number	Description
4744128	EJB compiler failed to generate valid java code for inner classes
4872948	Circular path in jar manifest causes 'error received from mbean null' error
4876672	When you make a map between non-j2ee URLs and URLs that really exist, the <code>errorhandlerrequest.getAttribute("javax.servlet.error.request_uri")</code> returns null.
4930027	Whenever <code>jsp:useBean</code> is used in a JSP code, if an object with specified ID is not found in the specified scope, it is created using <code>Beans.instantiate()</code> irrespective of what attributes are used.
4949245	The Application Server crashes occasionally during the deployment of WAR files.
4955404	<code>appclient</code> does not honor <code>-mainclass</code> option.
4957162	Verify tool not compatible with the EJB 2.0 & EJB 2.1 Spec rules for <code>ejb-name</code> naming convention
4969425	SNMP doesn't work when the instance is stopped and started (restart).
4972432	Not able to create a new domain using <code>asant</code>
4976401	Values for the SNMP MIB variables are always zero, even after server restarts. An example of an SNMP MIB variable is <code>iwsInstanceDeathCount</code> .

**Table 3** Fixed Bugs in Application Server 7, Update 4 (*Continued*)

Bug Number	Description
4976502	Documentation error in Performance Tuning Guide enabling stats-xml instructions.
4982525	Administration Interface works improperly in Japanese version
4987274	Deployment fails if remote interface for the bean is named <code>Util</code>
4991198	Application server log encryption issue.
4997113	Application Server is unstable when application is accessed using passthrough plug-in with SSL enabled.
5004406	<code>asadmin --passwordfile</code> option does not work with mix of upper/lowercase characters
5005653	Warning message when deploying jdbc/simple sample.
5013767	Proxy Plug-in is truncating XML return data.
5022904	DB2 Server has connection growing after idle time out with DB2 Type II Drivers. See " <a href="#">Database Driver</a> " on page 28.

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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

In addition to these release notes, the Sun ONE Application Server 7, Update 4 product includes an entire set of documentation. The Sun ONE Application Server 7 documents that were updated in Update 4 have new part numbers and are indicated in the following list as **REVISED**. Documents that were not changed from previous update releases have the same part numbers.

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<b>NOTE</b>	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 4 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 817-7240) 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 iPlanet 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

Full instructions for upgrading to Sun ONE Application Server, Update 4 product 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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## Known Issues and Limitations

This section describes known problems and associated workarounds for the Sun ONE Application Server 7, Update 4 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 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 and Uninstallation

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

ID	Summary
4403166	<p data-bbox="317 267 1335 321"><b>On Microsoft Windows, package/path/application names longer than 255 characters will fail to deploy applications.</b></p> <p data-bbox="317 336 1335 418">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 data-bbox="317 434 1335 456" style="list-style-type: none"> <li data-bbox="317 434 1335 456">• Example of a long application name:</li> </ul> <p data-bbox="317 472 1335 494">J2EE application name as <code>servlet_jsh_HttpServletRequestWrapper.ear</code></p> <ul data-bbox="317 510 1335 532" style="list-style-type: none"> <li data-bbox="317 510 1335 532">• Example of a long package name:</li> </ul> <p data-bbox="317 548 1335 571">The servlet is located in the following package:</p> <pre data-bbox="317 595 1335 708">servlet_jsh_HttpServletRequestWrapper_1\ servlet_jsh_HttpServletRequestWrapper_war\WEB-INF\classes\tests\ javax_servlet_http\HttpServletRequestWrapperHttpServletRequestWrapperCon structorTestServlet.class</pre> <ul data-bbox="317 723 1335 746" style="list-style-type: none"> <li data-bbox="317 723 1335 746">• Example of a long path name:</li> </ul> <p data-bbox="317 762 1335 784">Sun ONE Application Server is installed as <code>drive \:&gt; Sun \ApplicationServer</code></p> <p data-bbox="317 800 1335 822"><b>Solution</b></p> <p data-bbox="317 838 1335 861">Consider the following solutions:</p> <ol data-bbox="317 876 1335 1050" style="list-style-type: none"> <li data-bbox="317 876 1335 933">1. Make a shorter directory structure during installation. For example, <code>drive:&gt;App\</code> instead of the default <code>drive:&gt;Sun\Apsserver7</code>.</li> <li data-bbox="317 949 1335 1006">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 data-bbox="317 1022 1335 1050">3. Have shorter package names, path names, and application names.</li> </ol>
4687768	<p data-bbox="317 1065 1335 1119"><b>On Solaris setup-SDK/JDK, an error occurs when installing in command-line mode on a machine without Xwindows.</b></p> <p data-bbox="317 1135 1335 1241">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 data-bbox="317 1256 1335 1279"><b>Solution</b></p> <ol data-bbox="317 1295 1335 1432" style="list-style-type: none"> <li data-bbox="317 1295 1335 1352">1. Install X Windows support packages temporarily, removing them after installing the Sun ONE Application Server product.</li> <li data-bbox="317 1367 1335 1432">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 1006 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 1225 321"><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="239 343 1225 447">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="239 465 325 489"><b>Solution</b></p> <p data-bbox="239 506 1159 558">To preserve the Sun ONE Message Queue installation after the Sun ONE Application Server is uninstalled:</p> <ol data-bbox="239 576 1159 703" style="list-style-type: none"><li data-bbox="239 576 868 600">1. Exit the installer when offered the automatic upgrade choice,.</li><li data-bbox="239 618 1159 670">2. Upgrade Sun ONE Message Queue to version 3.0.1 according to Sun ONE Message Queue documentation,.</li><li data-bbox="239 687 773 711">3. Run Sun ONE Application Server installation again.</li></ol>
4746410	<p data-bbox="239 725 1225 784"><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="239 802 1225 871">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="239 888 325 913"><b>Solution</b></p> <p data-bbox="239 930 1225 1010">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 1027 1225 1086"><b>On Microsoft Windows XP, cannot incrementally install sample applications and PointBase 4.2 components.</b></p> <p data-bbox="239 1104 1225 1208">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 1225 325 1249"><b>Solution</b></p> <p data-bbox="239 1267 1225 1345">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="318 244 846 269"><b>Directory error occurs during generic silent install.</b></p> <p data-bbox="318 284 1229 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="318 378 968 444" style="list-style-type: none"><li data-bbox="318 378 676 402">• Selected directory is not writable.</li><li data-bbox="318 418 968 444">• Selected directory string is empty or contains space characters.</li></ul>
4749033	<p data-bbox="318 545 1210 593"><b>On Microsoft Windows XP, cannot uninstall standalone admin client installation using uninstaller.</b></p> <p data-bbox="318 612 1293 689">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>
	<p data-bbox="318 708 408 732"><b>Solution</b></p> <p data-bbox="318 751 1293 881">Check the supplied installation directory value for both issues to determine the cause of error.</p>
4749666	<p data-bbox="318 904 1229 953"><b>Samples documentation is not published to initial server instance if Sample Application component has been incrementally installed.</b></p> <p data-bbox="318 972 1305 1104">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="318 1123 408 1147"><b>Solution</b></p> <p data-bbox="318 1166 698 1190">Access samples documentation locally.</p>

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ID	Summary
4754256	<p data-bbox="239 244 1220 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="239 314 1220 418">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="239 437 692 491">/etc/imag/passwd /etc/imag/accesscontrol.properties</pre> <p data-bbox="239 510 1220 560">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="239 579 328 604"><b>Solution</b></p> <p data-bbox="239 623 1220 694">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="317 244 1176 262"><b>On Solaris, an installer error message occurs while running installation from a CD.</b></p> <p data-bbox="317 284 1305 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="317 493 1305 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="317 591 408 609"><b>Solution</b></p> <p data-bbox="317 631 1186 649">Installer functionality is not affected in any way. However, the following workaround exists:</p> <ol data-bbox="317 671 1248 847" 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="358 782 554 800"># mkdir /cdrom</pre></li><li>3. Mount the CD-ROM drive.</li></ol> <p data-bbox="317 864 1283 916"><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="317 933 1182 951">If running File Manager, a separate File Manager window displays the CD-ROM contents.</p> <ol data-bbox="317 973 1283 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="358 1072 825 1090"># 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="358 1182 839 1199"># ps -ef   grep vold   grep -v grep</pre></li><li>6. Stop the <code>vold</code> process by entering: <pre data-bbox="358 1269 743 1286"># kill -15 process_ID_number</pre></li><li>7. Mount the CDRom manually: <pre data-bbox="358 1350 1086 1367"># mount -F hsfs -r ro /dev/dsk/cxytd0sz /cdrom/cdrom0</pre></li></ol> <p data-bbox="317 1390 1300 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="317 1459 1286 1512">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 1200 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 1200 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 1200 526" style="list-style-type: none"> <li data-bbox="239 461 1200 487">• The installer will hang if the Browse button is selected on the installation directory selection screen.</li> <li data-bbox="239 501 1200 526">• Program Group entries for the Sun ONE Application Server items might not be created.</li> </ul> <p data-bbox="239 543 328 569"><b>Solution</b></p> <p data-bbox="239 586 936 612">Log in as user with administrator privileges when performing installation.</p>
4757687	<p data-bbox="239 630 1219 708"><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="239 725 1219 942">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="239 960 328 986"><b>Solution</b></p> <p data-bbox="239 1003 1193 1046">Uninstall the standalone Administration Client before attempting to install the Sun ONE Application Server on the same Solaris system.</p> <p data-bbox="239 1064 1219 1142">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 1305 295"><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 1305 390">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="315 409 736 473" style="list-style-type: none"><li data-bbox="315 409 658 434">• Installation directory: <i>install_dir</i></li><li data-bbox="315 447 736 473">• Configuration directory: <i>install_dir/etc</i></li></ul> <p data-bbox="315 493 1229 543">The pkgadd log file in the <code>/var/sadm/install/logs</code> directory will contain following error message:</p> <pre data-bbox="315 562 943 612">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="315 675 958 699">Select a custom configuration directory other than <i>install_dir/etc</i>.</p>
4724612	<p data-bbox="315 718 1305 769"><b>On Solaris SPARC and Linux, PointBase shell scripts fail if run by someone other than the installing user.</b></p> <p data-bbox="315 788 1229 838">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="315 857 408 881"><b>Solution</b></p> <p data-bbox="315 900 1265 939">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="315 958 1305 1008"><b>On Solaris, the Sun ONE Message Queue package SUNWiqsup is not removed during Message Queue upgrade process.</b></p> <p data-bbox="315 1027 1305 1104">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 1305 1199">There is a minor cleanup issue where the Solaris installer does not remove one of the Solaris packages (SUNWiqsup) 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 1218 408 1242"><b>Solution</b></p> <p data-bbox="315 1262 1122 1286">Manually remove the SUNWiqsup package using the following command (as root):</p> <pre data-bbox="315 1305 551 1329"># 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 1205 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="239 630 646 656">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 1225 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 1205 1029">Due to a bug in the Linux <code>rpm</code> utility in 4.2.1.xx, the installed Sun ONE Message Queue (identified as <code>img</code>) <code>rpm</code> is not recognized. Because of this problem, the Sun ONE Application Server installer will install a second version of the Sun ONE Message Queue <code>rpm</code>. To work around this, either install the 4.2.0.69 version of <code>rpm</code> on your system or uninstall Message Queue before installing the application server.</p> <p data-bbox="239 1046 1225 1098">Typically 4.2.1.xx version of <code>rpm</code> is present in Red Hat Enterprise Linux Advanced Server 3.0 unless the <code>rpm</code> package was upgraded on prior versions of the Linux system.</p>
5034338	<p data-bbox="239 1116 919 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>

ID	Summary
5050621	<p data-bbox="318 244 1305 378"><b>This problem appears on Linux, 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 to Update 4. 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="318 395 408 420"><b>Solution</b></p> <p data-bbox="318 437 1305 517">For the instance of the application server created after upgrade to Sun ONE Application Server, Update 4, 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="318 534 579 558">Change the following lines:</p> <pre data-bbox="365 576 1053 645"> &lt;java-config java-home="/usr/jdk/entsys-j2se" server-classpath="/usr/share/lib/mps/secv1/jss3.jar &lt;--- </pre> <p data-bbox="318 663 351 687">To:</p> <pre data-bbox="365 704 1102 774"> &lt;java-config java-home="/usr/jdk/entsys-j2se" server-classpath="//opt/sun/private/share/lib/jss3.jar &lt;---- </pre> <p data-bbox="318 791 1196 815">To prevent this problem from occurring in future, modify the following template files as well:</p> <pre data-bbox="318 833 1116 902"> \${APPSERVER_INSTALL_DIR}/lib/install/template/server.xml.template.admin \${APPSERVER_INSTALL_DIR}/lib/install/template/server.xml.template </pre> <p data-bbox="318 920 708 944">In these template files, change the lines:</p> <pre data-bbox="365 961 993 1031"> &lt;java-config java-home="%%%JAVA_HOME%%%" server-classpath="/usr/share/lib/mps/secv1/jss3.jar </pre> <p data-bbox="318 1048 351 1072">To:</p> <pre data-bbox="365 1090 1016 1159"> &lt;java-config java-home="%%%JAVA_HOME%%%" server-classpath="/opt/sun/private/share/lib/jss3.jar </pre> <p data-bbox="168 1182 211 1206"><b>N/A</b></p> <p data-bbox="318 1182 1293 1234"><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 data-bbox="318 1251 408 1275"><b>Solution</b></p> <p data-bbox="318 1293 1305 1347">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>

ID	Summary
N/A	<p data-bbox="239 244 1115 265"><b>Installing Sun ONE Application Server on Windows may give the following message:</b></p> <p data-bbox="239 282 853 303"><b>"Error writing native components to disk. Aborting wizard"</b></p> <p data-bbox="239 326 325 347"><b>Solution</b></p> <ol data-bbox="239 369 1172 510" style="list-style-type: none"> <li data-bbox="239 369 1172 444">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 data-bbox="239 461 1172 510">2. Additionally, the environment variable <code>TEMP</code> must be set and must point to an existing writable directory.</li> </ol>

## 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 App Server instance.

However, to stop the App 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.

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ID	Summary
<b>4725893</b>	<b>On Solaris, License expiration information is not shown.</b> <p data-bbox="307 303 1338 390">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 data-bbox="307 399 406 425"><b>Solution</b></p> <p data-bbox="307 442 571 468">Check the server log files.</p>
<b>4738648</b>	<b>JMS service/Sun ONE Application Server startup fails.</b> <p data-bbox="307 529 1338 581">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 data-bbox="307 598 1338 624" 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 data-bbox="307 633 406 659"><b>Solution</b></p> <p data-bbox="307 677 1338 729">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 data-bbox="307 746 1338 798">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 data-bbox="307 815 1338 868" 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 data-bbox="307 876 406 902"><b>Solution</b></p> <p data-bbox="307 920 1338 998">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>

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ID	Summary
4762420	<p data-bbox="239 244 982 267"><b>Firewall rules might cause Sun ONE Application Server startup failures.</b></p> <p data-bbox="239 284 1253 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="239 461 1253 621">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="239 638 1253 861" style="list-style-type: none"> <li data-bbox="239 638 1253 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="282 708 1039 791">Could not start the instance: domain1:admin-server server failed to start: abnormal subprocess termination ...</pre> </li> <li data-bbox="239 808 1253 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="239 878 328 900"><b>Solution</b></p> <p data-bbox="239 918 1253 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="239 987 1253 1039">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="239 1057 1253 1109">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="282 1126 982 1178"> domain_config_dir/domain1/admin-server/config/server.xml domain_config_dir/domain1/server1/config/server.xml </pre> <p data-bbox="239 1196 1253 1218">where <code>domain_config_dir</code> is the location of your initial server configuration. For example:</p> <pre data-bbox="239 1236 1116 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="239 1329 1253 1432">Look for the port settings in the <code>&lt;iioop-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="317 244 1335 295"><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="317 314 1335 364">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="317 383 1335 607" style="list-style-type: none"> <li data-bbox="317 383 1335 486">• 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="317 505 1335 607">• 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="317 626 449 647"><b>Background</b></p> <p data-bbox="317 666 1335 798">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="317 817 1056 838">The <code>/etc/init.d/appserv</code> script contains the following section of code:</p> <pre data-bbox="317 869 799 1119">... case "\$1" in 'start')     /usr/sbin/asadmin start-appserv     ;; 'stop')     /usr/sbin/asadmin stop-appserv     ;; ... </pre> <p data-bbox="317 1138 1335 1324">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="317 1343 1335 1446">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>

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ID	Summary
4780076 (Continued)	<p data-bbox="239 239 1253 274"><b>Solution</b></p> <p data-bbox="239 279 1253 309">Perform one of the following workarounds depending on your environment:</p> <ul data-bbox="239 314 1253 644" style="list-style-type: none"><li data-bbox="239 314 1253 401">• 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="239 406 1253 552">• 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="239 557 1253 644">• 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="239 661 1253 690"><b>Examples</b></p> <p data-bbox="239 696 1253 782">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="239 800 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 1340 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 1340 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 1340 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.

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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 505">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="239 524 325 546"><b>Solution</b></p> <p data-bbox="239 565 1182 616">Obtain and apply the patch to your server from the Oracle Web site for Bug 2199718. Perform the following steps:</p> <ol data-bbox="239 635 925 899" style="list-style-type: none"><li data-bbox="239 635 529 657">1. Go to the Oracle web site.</li><li data-bbox="239 677 525 699">2. Click the 'patches' button.</li><li data-bbox="239 718 668 741">3. Type 2199718 in the patch number field.</li><li data-bbox="239 760 925 782">4. Click the 32-bit Solaris OS patch.Go to <a href="http://Metalink.oracle.com">Metalink.oracle.com</a>.</li><li data-bbox="239 802 415 824">5. Click patches.</li><li data-bbox="239 843 635 866">6. Under patch number, enter 2199718.</li><li data-bbox="239 885 596 907">7. Click the 32 bit Solaris OS patch.</li></ol>
4707531	<p data-bbox="239 921 1153 972"><b>On Solaris, accessing an Oracle 9.1 database with an Oracle 9.2 Client might cause data corruption.</b></p> <p data-bbox="239 991 1225 1041">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 1060 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 1246">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	<b>Oracle JDBC drivers must be configured properly to be compliant with J2EE 1.3.</b> <b>Solution</b> Use the following configuration for Type 2 and Type 4 drivers: <ol style="list-style-type: none"><li data-bbox="315 366 696 390">1. Use the JDBC from 9.2.0.3 or later.</li><li data-bbox="315 406 1253 430">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="315 446 601 470">3. Use the <code>ojdbc14.jar</code> file.</li><li data-bbox="315 486 1129 510">4. Configure the Sun ONE Application Server to define the following JVM property: <code>-Doracle.jdbc.J2EE13Compliant=true</code></li></ol> 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.

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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 name 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 true 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 true 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>

# EJB Container

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

ID	Summary
4735835	<p data-bbox="239 418 1249 444"><b>Cannot properly handle null PKs returned from ejbFind methods.</b></p> <p data-bbox="239 461 1249 539">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="239 557 1249 583" style="list-style-type: none"> <li data-bbox="239 557 1249 583">1. <code>find insurance.employee where insurance.id == 10</code></li> </ol> <p data-bbox="239 600 1249 626">This returns null if such insurance does not have an employee associated with it.</p> <ol data-bbox="239 644 1249 670" style="list-style-type: none"> <li data-bbox="239 644 1249 670">2. <code>find all insurance.employee where insurance.id &gt; 10</code></li> </ol> <p data-bbox="239 687 1249 713">This returns a collection that might contain nulls for those insurances that do not have an employee.</p> <p data-bbox="239 730 1249 782">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="239 800 1249 852">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="239 869 1249 895"><b>Solution</b></p> <p data-bbox="239 913 1249 921">None.</p>
4744434	<p data-bbox="239 947 1249 999"><b>The Sun ONE Application Server occasionally throws Null Pointer Exception when using stateful session beans.</b></p> <p data-bbox="239 1017 1249 1147">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 1164 1249 1190"><b>Solution</b></p> <p data-bbox="239 1208 1249 1260">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>
4951476, 4967645	<p data-bbox="239 1277 1249 1329"><b>The exception <code>javax.ejb.EJBException: org/dom4j/Element</code> is thrown when using Java WSPD 1.2 or 1.3</b></p> <p data-bbox="239 1347 1249 1399"><b>NOTE:</b> If your application does not use the Java Web Services Developer Pack (Java WSPD) 1.2 or 1.3, this problem does not apply to you.</p> <p data-bbox="239 1416 1249 1468">When Java WSPD 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="239 1486 1249 1512"><b>Solution</b></p> <p data-bbox="239 1529 1249 1579">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>



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ID	Summary
4994366	<b>Error when deploying if <code>ejb-local-ref</code> is used without <code>ejb-link</code>.</b>
	<b>Solution</b>
	<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.

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## Container-Managed Persistence

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

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ID	Summary
4732684	<b>Oracle JDBC driver optimizations are not being initiated.</b>
	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.
	<b>Solution</b>
	Add the Oracle driver files to the <code>classpath-suffix</code> attribute of the <code>server.xml</code> file.
4734963	<b>Self-referencing CMRs cause problem during deployment.</b>
	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.
	<b>Solution</b>
	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> .

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ID	Summary
4747222	<p data-bbox="239 244 1122 267"><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 style="list-style-type: none"> <li data-bbox="239 354 993 376">1. If you attempt to capture all tables (that is, no tables are explicitly chosen):           <pre data-bbox="239 394 1218 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="239 493 396 515">You will receive:</p> <pre data-bbox="239 522 779 574">java.sql.SQLExceptions ORA-00942: table or view does not exist.</pre> <p data-bbox="239 591 565 614">The resulting output file is broken.</p> </li> <li data-bbox="239 631 851 654">2. If one or more tables are specified with the -table option:           <pre data-bbox="239 671 1218 753">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="239 770 1189 822">The resulting file has the specified tables, but no column information, which means the file can't be used for CMP mapping.</p> </li> </ol> <p data-bbox="239 840 325 862"><b>Solution</b></p> <p data-bbox="239 880 1208 932">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="239 949 1218 1031">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 1053 1179 1105"><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 1123 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 1274 325 1296"><b>Solution</b></p> <p data-bbox="239 1314 975 1336">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="317 263 1332 326"><b>The -javahome flag in all MQ Solaris/Microsoft Windows scripts does not work if the value has a space.</b></p> <p data-bbox="317 333 1332 420">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="317 427 692 506" style="list-style-type: none"> <li>• Microsoft Windows: <code>C:\jdk 1.4</code></li> <li>• Solaris: <code>/work/java 1.4</code></li> </ul> <p data-bbox="317 513 1332 708">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="317 715 406 749"><b>Solution</b></p> <p data-bbox="317 756 1332 817">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="239 907 978 930"><b>The connection from XADatasource in non-txn context cannot be used.</b></p> <p data-bbox="239 951 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 1020 329 1043"><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 1130 953 1152"><b>Non-zero transaction timeout setting causes slow local transactions.</b></p> <p data-bbox="239 1173 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 1350 329 1373"><b>Solution</b></p> <p data-bbox="239 1390 875 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 and Uninstallation” on page 10</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 1225 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 1225 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><b>If IPv6 is not used in your network, this problem does not apply to you.</b></p> <p>NOTE: If IPv6 is not used in your network, this problem does not apply to you.</p> <p>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>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><b>Solution</b></p> <p>Perform the following configuration changes:</p> <ol style="list-style-type: none"> <li>1. Start the Admin Server.</li> <li>2. Start the Administration interface. (Connect to Admin Server http host/port in a browser).</li> <li>3. Select the App Server instance to configure for IPv6, such as server1.</li> <li>4. Expand the HTTP Listeners node in the tree view.</li> <li>5. Select the HTTP Listener to configure for IPv6, such as http-listener1.</li> <li>6. In the General section, change the value of the IP Address field to ANY.</li> <li>7. In the Advanced section, change the value of the Family field to INET6.</li> </ol> <p>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 style="list-style-type: none"> <li>8. Click Save.</li> <li>9. In the left pane, select your server instance.</li> <li>10. Click Apply Changes.</li> <li>11. Click Stop.</li> <li>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 <code>getPrimaryKey()</code>, <code>getEJBMetaData()</code>, <code>getHomeHandle()</code> 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><b>CLI command overflows in single-mode if the command is more than 256 characters long.</b></p> <p>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>This is a terminal restriction, not a CLI restriction.</p> <p>Example:</p> <pre>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><b>Solution</b></p> <ol style="list-style-type: none"> <li>1. For commands that require more than 256 characters, use CLI multi-mode.</li> <li>2. If you must use single-mode, run the command using OpenWin <code>cmdtool</code>.</li> </ol>
4680409	<p><b>After configuring an instance to use SSL, the administrator cannot access the Admin Server from either the CLI or browser clients.</b></p> <p><b>Solution</b></p> <p>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.</p> <p>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:</p> <pre>keytool -import -file servercert.cer -alias server -keystore /INSTALL/jdk/jre/lib/security/cacerts</pre> <p>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.</p>

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ID	Summary
4688386	<p data-bbox="239 244 1200 291"><b>Using the asterisk (*) character in single-mode CLI command results in unexpected behavior and/or error messages.</b></p> <p data-bbox="239 314 1225 418">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.</p> <p data-bbox="239 435 325 458"><b>Solution</b></p> <p data-bbox="239 475 953 499">Use quote characters (either single or double quotes) around the asterisk.</p>
4701361	<p data-bbox="239 522 1150 545"><b>Repeated changes applied to any instance eventually results in an out of memory error.</b></p> <p data-bbox="239 562 1193 638">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.</p> <p data-bbox="239 656 325 678"><b>Solution</b></p> <p data-bbox="239 696 1015 718">Use the <code>asadmin reconfig</code> command periodically to discard old change records.</p>
4704328	<p data-bbox="239 741 986 763"><b>Cleanup does not happen when a call to create a duplicate domain fails.</b></p> <p data-bbox="239 781 1225 857">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.</p> <p data-bbox="239 874 325 897"><b>Solution</b></p> <p data-bbox="239 914 1225 939">Remove any additional empty directory specified that might be created after the <code>-path</code> option is used.</p>
4708813	<p data-bbox="239 961 1001 984"><b>Cannot monitor the default (pointbase) connection-pool JDBC resources.</b></p> <p data-bbox="239 1001 1210 1048">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="239 1065 325 1088"><b>Solution</b></p> <p data-bbox="239 1105 772 1135">Create the desired connection pool to allow monitoring.</p>

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ID	Summary
4722007	<p data-bbox="315 244 1110 269"><b>Monitoring: Execution times of less than 1 millisecond cannot be measured.</b></p> <p data-bbox="315 284 1286 336">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="315 354 1286 435">iasadmin&gt;get -m server1.application.usecase1app.ejb-module.UseCase1Ejb_jar.entity-bean. BeanOne.bean-method.method_create0.*</pre> <p data-bbox="315 453 676 477">The following attributes are returned:</p> <pre data-bbox="315 494 1210 725">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="315 743 1296 847">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="315 864 408 888"><b>Solution</b></p> <p data-bbox="315 906 379 930">None.</p>
4733109	<p data-bbox="315 951 1286 1003"><b>Verifier error reported in Administration interface when viewing Persistence Manager Factory resource created from command-line interface.</b></p> <p data-bbox="315 1020 1300 1072">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 1090 1286 1114">    ArgChecker Failure: Validation failed for jndiName: object must be non-null</pre> <p data-bbox="315 1131 408 1156"><b>Solution</b></p> <p data-bbox="315 1173 379 1197">None.</p>

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ID	Summary
4742993	<p data-bbox="239 239 1182 291"><b>On Solaris, the flexanlg command causes open failure when used on Sun ONE Application Server that is integrated into Solaris.</b></p> <p data-bbox="239 309 1218 361">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.</p> <pre data-bbox="239 378 1218 456">ld.so.1: /usr/appserver/bin/flexanlg: fatal: libplc4.so: open failed: No such file or directory Killed</pre> <p data-bbox="239 473 328 499"><b>Solution</b></p> <p data-bbox="239 517 458 543">Complete these steps.</p> <ol data-bbox="239 560 775 586" style="list-style-type: none"> <li data-bbox="239 560 775 586">1. Add the following entry to LD_LIBRARY_PATH file:</li> </ol> <pre data-bbox="239 604 389 630">usr/lib/mps</pre> <ol data-bbox="239 647 625 673" style="list-style-type: none"> <li data-bbox="239 647 625 673">2. Then run the flexanlg command.</li> </ol> <pre data-bbox="239 690 639 708">% /usr/appserver/bin/flexanlg</pre>
4750518	<p data-bbox="239 725 886 751"><b>Some CLI commands do not work on the target Admin Server.</b></p> <p data-bbox="239 769 1186 847">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.</p> <p data-bbox="239 864 328 890"><b>Solution</b></p> <p data-bbox="239 907 1093 927">Use the Administration interface to create, delete, and list elements in the Admin Server.</p>

## Administration Infrastructure

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

ID	Summary
4676888	<p data-bbox="315 361 1340 390"><b>On Microsoft Windows 2000, cannot create JVM when JVM heap size is set to a large value.</b></p> <p data-bbox="315 402 1340 432">If you try to set a larger JVM heap size on Windows 2000, you might get the following error message:</p> <pre data-bbox="315 444 1340 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="315 543 1340 572"><b>Solution</b></p> <p data-bbox="315 585 1340 638">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="315 651 1340 765">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="362 777 1340 835"><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="315 847 1340 876">Requirements:</p> <ul data-bbox="315 888 1340 963" style="list-style-type: none"> <li>• Window 2000 system with 2-4 GB memory</li> <li>• Visual Studio/Microsoft Framework SDK Rebase utility</li> </ul> <p data-bbox="315 975 1340 1005">To apply rebase to S1AS dynamic libraries do the following:</p> <ol data-bbox="315 1017 1340 1171" style="list-style-type: none"> <li>1. cd into <i>install_dir</i>\bin</li> <li>2. rebase -b 0x6000000 *.dll</li> <li>3. cd ..\lib</li> <li>4. rebase -b 0x6600000 *.dll</li> </ol>
4686003	<p data-bbox="315 1194 1340 1223"><b>HTTP Quality of Service limits are not enforced.</b></p> <p data-bbox="315 1236 1340 1350">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 1362 1340 1392"><b>Solution</b></p> <p data-bbox="315 1404 1340 1482">To fully enable QOS features, you must manually add an AuthTrans fn=qos-handler line to the top of the default object in the <i>obj.conf</i> file of the virtual server. The qos-handler Server Application Function (SAF) and <i>obj.conf</i> 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="315 244 991 269"><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 1283 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 1298 572"><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="315 591 408 616"><b>Solution</b></p> <p data-bbox="315 631 779 656">Remove the entire server and then add it again.</p> <p data-bbox="315 671 1305 725">NOTE: To avoid the problem in the future—Before removing the http listener, disable security using the following command:</p> <pre data-bbox="315 741 1239 909">/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="315 928 1058 953"><b>On Microsoft Windows 2000, corrupt messages display on the console.</b></p> <p data-bbox="315 968 1283 1024">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 1043 408 1067"><b>Solution</b></p> <p data-bbox="315 1083 808 1107">Use the Admin interface to view the log messages.</p>

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ID	Summary
4739831	<p data-bbox="239 244 1105 265"><b>A partially-deleted instance causes incorrect responses from some CLI commands.</b></p> <p data-bbox="239 284 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="239 354 1225 404" style="list-style-type: none"> <li data-bbox="239 354 1225 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="239 423 327 444"><b>Solution</b></p> <p data-bbox="239 463 1143 484">Manually remove the leftover instance directory, then run the <code>create-instance</code> command.</p> <ol data-bbox="239 503 1225 553" style="list-style-type: none"> <li data-bbox="239 503 1225 553">2. The <code>list-instances</code> command in local mode includes the partially-deleted instance name and status.</li> </ol> <p data-bbox="239 572 327 593"><b>Solution</b></p> <p data-bbox="239 612 1130 633">Manually remove the leftover instance directory, then run the <code>list-instances</code> command.</p> <ol data-bbox="239 652 1195 703" style="list-style-type: none"> <li data-bbox="239 652 1195 703">3. On Microsoft Windows 2000, the <code>start-instance</code> command in remote mode displays a null string.</li> </ol> <p data-bbox="239 722 327 743"><b>Solution</b></p> <p data-bbox="239 762 1051 812">Manually remove the leftover instance directory, create a new instance, then run the <code>start-instance</code> command.</p> <ol data-bbox="239 831 1203 907" style="list-style-type: none"> <li data-bbox="239 831 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="239 927 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="239 1022 327 1043"><b>Solution</b></p> <p data-bbox="239 1062 704 1083">Manually remove the leftover instance directory.</p>
4739891	<p data-bbox="239 1107 1218 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="239 1177 327 1197"><b>Solution</b></p> <p data-bbox="239 1216 1225 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="318 244 1153 269"><b>SNMP: END OF MIB is returned when adding and starting a new instance server.</b></p> <p data-bbox="318 284 1305 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="318 350 408 374"><b>Solution</b></p> <ol data-bbox="318 390 1305 569" style="list-style-type: none"><li data-bbox="318 390 1305 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="318 491 1305 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="318 585 1232 635"><b>License expired message does not appear at Microsoft Windows Services or at the DOS prompt.</b></p> <p data-bbox="318 651 1305 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="318 716 408 741"><b>Solution</b></p> <p data-bbox="318 756 891 788">Start servers from CLI (<code>asadmin</code>) or from Sun program icon</p>
4780488	<p data-bbox="318 803 1305 1010"><b>Existence of multiple <code>obj.conf</code> files causes confusion.</b></p> <p data-bbox="318 847 1305 1010">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="318 1025 1305 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="318 1149 1305 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="318 1244 408 1269"><b>Solution</b></p> <p data-bbox="318 1284 1305 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="239 244 893 267"><b>Errors when using SSL and web server (reverse proxy) plug-in.</b></p> <p data-bbox="239 284 825 307">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="239 364 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>

## 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 data-bbox="239 1081 1225 1130"><b>On Microsoft Windows 2000, cannot edit or remove entries within a newly created mime file that omits the .types extension.</b></p> <p data-bbox="239 1147 1200 1196">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, <code>mime2.types</code> and not <code>mime2</code></p> <p data-bbox="239 1213 325 1236"><b>Solution</b></p> <p data-bbox="239 1253 736 1275">Use the <code>.types</code> extension for any mime file name.</p>

ID	Summary
4725473	<p><b>External certificate nickname doesn't display on the Administration interface Nickname list.</b></p> <p>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><b>Solution</b></p> <ol style="list-style-type: none"> <li>1. Log in to the system where the Sun ONE Application Server software is installed as an Administrative User.</li> <li>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="318 612 879 881"> /sun/appserver7/bin/asadmin create-ssl   --user admin --password <i>password</i>   --host <i>host_name</i>   --port 8888   --type http-listener   --certname nobody@oprealm:Server-Cert   --instance server1   --ssl3enabled=true   --ssl3tlsciphers +rsa_rc4_128_md5   http-listener-1 </pre> <p>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 style="list-style-type: none"> <li>3. Enable the <code>http-listener</code> to listen in SSL mode by using the following CLI command.</li> </ol> <pre data-bbox="318 1038 1153 1199"> /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>This command switches the server instance listening state from non-SSL to SSL.</p> <p>After completing the preceding steps, the certificate is displayed in the Administration interface.</p> <ol style="list-style-type: none"> <li>4. You can now use the Administration interface to edit the <code>http-listener</code> as needed.</li> </ol>

ID	Summary
4728718	<p><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>In the Administration interface, the log file field cannot be used to add any values.</p> <p><b>Solution</b></p> <p>Delete the virtual server just created, create the needed file, then recreate the virtual server.</p> <p>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><b>On Solaris 9 update 2, default browser is incompatible with Sun ONE Application Server 7.</b></p> <p>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>Unsupported Browser: Netscape 4.78.</p> <p>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>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><b>Solution</b></p> <ul style="list-style-type: none"> <li>• 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>• 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><b>Access Control List (ACL) editing is not supported on some versions of Netscape Navigator.</b></p> <p>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><b>Solution</b></p> <p>Choose one of the following workarounds.</p> <ul style="list-style-type: none"> <li>• Use the supported 4.79 version of Netscape Navigator.</li> <li>• 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="317 244 1043 269"><b>Netscape 4.8 produces warning message on Administration interface.</b></p> <p data-bbox="317 284 1305 388">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="317 404 408 428"><b>Solution</b></p> <p data-bbox="317 444 1305 510">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="317 532 968 557"><b>An invalid Help button appears in the Install Certificate screen.</b></p> <p data-bbox="317 572 1305 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="317 694 408 718"><b>Solution</b></p> <p data-bbox="317 734 896 760">Click the Help link in the top pane for context-sensitive help.</p>
4760939	<p data-bbox="317 782 1305 833"><b>SSL: A self-signed certificate generated by certutil is not displayed on the Certificate Nickname list.</b></p> <p data-bbox="317 848 1305 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="317 916 408 940"><b>Solution</b></p> <p data-bbox="317 956 1068 979">To use a self-signed certificate, you must manually edit the <code>server.xml</code> file.</p>
4848146	<p data-bbox="317 1001 1225 1025"><b>Error occurs accessing the Administration interface if the browser uses a proxy server.</b></p> <p data-bbox="317 1041 1305 1091">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="317 1109 408 1133"><b>Solution</b></p> <p data-bbox="317 1149 562 1173">Disable the proxy server.</p> <p data-bbox="317 1189 354 1213">OR</p> <p data-bbox="317 1229 1031 1256">Include localhost in the list of domains to be ignored by their proxy server.</p>
4957860	<p data-bbox="317 1279 951 1303"><b>On Red Hat Enterprise Linux AS 3.0 Failed to add MIME type.</b></p> <p data-bbox="317 1319 1305 1369">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="317 1387 408 1411"><b>Solution</b></p> <p data-bbox="317 1426 1225 1477">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>

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ID	Summary
5011969	<p><b>On Solaris x86, HTTP listener and IIOP 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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ID	Summary
4733794	<p data-bbox="315 244 993 269"><b>ejb-name changes applied at Application node are undeployable.</b></p> <p data-bbox="315 284 1305 390">It is possible to change the <code>ejb-name</code> element of a bean, in the context of an application, 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 'alt-dd' that is created as part of the packaging. The name change is <i>not</i> propagated to the Sun ONE Application Server <code>alt-dd</code>.</p> <p data-bbox="315 406 408 430"><b>Solution</b></p> <p data-bbox="315 446 376 470">None.</p>
4725779	<p data-bbox="315 493 1119 517"><b>Pre-configured Sun ONE specific property values do not appear in the editor.</b></p> <p data-bbox="315 532 1305 609">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="315 624 408 649"><b>Solution</b></p> <p data-bbox="315 664 1305 720">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="315 736 1305 788">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>
4733794	<p data-bbox="315 810 1003 835"><b>EJB name changes applied at Application node are undeployable.</b></p> <p data-bbox="315 850 1305 956">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 the 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="315 972 408 996"><b>Solution</b></p> <p data-bbox="315 1012 376 1036">None.</p>

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ID	Summary
4745283	<p data-bbox="239 244 841 267"><b>If only Admin Client is installed, App Client cannot be run.</b></p> <p data-bbox="239 284 1222 335">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="239 352 325 374"><b>Solution</b></p> <p data-bbox="239 392 1222 470">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="239 487 525 510">To get <code>appclient</code> package:</p> <ol data-bbox="239 527 972 550" style="list-style-type: none"> <li>1. Run <code>SUNONE_INSTALL_ROOT/bin/package-appclient[.bat]</code></li> </ol> <p data-bbox="239 567 891 618">This generates <code>appclient.jar</code> file in <code>SUNONE_INSTALL_ROOT/lib/appclient/appclient.jar</code></p> <ol data-bbox="239 635 1208 852" 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: <pre data-bbox="239 869 1043 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> </li> </ol> <p data-bbox="239 1020 1222 1098">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="239 1116 768 1138">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="314 347 835 373"><b>In PetStore, cannot add a user that already exists.</b></p> <p data-bbox="314 390 1306 442">In the PetStore sample application, trying to add a user that already exists displays a stack trace on the screen.</p> <p data-bbox="314 460 406 486"><b>Solution</b></p> <p data-bbox="314 503 378 529">None.</p>
4726161	<p data-bbox="314 546 878 572"><b>Modified samples are not updated until redeployment.</b></p> <p data-bbox="314 590 1306 642">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="385 659 635 685" style="padding-left: 40px;">"Already Deployed"</p> <p data-bbox="314 703 1306 755">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="314 772 406 798"><b>Solution</b></p> <p data-bbox="314 815 728 841">Choose one of the following workarounds:</p> <p data-bbox="314 859 1306 911">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="314 928 606 954">% <code>asant deploy_common</code></p> <p data-bbox="314 972 935 998">For all other sample applications, type the following commands.</p> <p data-bbox="314 1015 542 1041">% <code>asant undeploy</code></p> <p data-bbox="314 1041 514 1067">% <code>asant deploy</code></p>
4733412	<p data-bbox="314 1085 1035 1111"><b>Sample application converter has redundant JAR file in web module.</b></p> <p data-bbox="314 1128 1306 1197">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="314 1215 1285 1241"><code>/usr/appserver/samples/ejb/stateless/converter/stateless-converter.ear</code></p> <p data-bbox="314 1258 1306 1336">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="314 1354 406 1380"><b>Solution</b></p> <p data-bbox="314 1397 971 1423">None. Doesn't affect functionality when running sample application.</p>

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ID	Summary
<b>4739854</b>	<p data-bbox="239 239 1253 269"><b>Instructions needed for deploying resources using asadmin.</b></p> <p data-bbox="239 282 1253 338">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="239 352 328 373"><b>Solution</b></p> <p data-bbox="239 394 1253 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="239 487 1253 567">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="239 581 1253 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>
<b>4747534</b>	<p data-bbox="239 873 1253 902"><b>The lifecycle-multithreaded sample application asks for the admin user password 8 times.</b></p> <p data-bbox="239 916 1253 972">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="239 986 328 1006"><b>Solution</b></p> <p data-bbox="239 1027 299 1050">None.</p>

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ID	Summary
4748535	<p data-bbox="315 244 668 265"><b>Miscellaneous sample file issues.</b></p> <ol data-bbox="315 284 1120 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="315 409 406 430"><b>Solution</b></p> <ol data-bbox="315 449 1258 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="315 489 856 751">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="315 770 1272 817">Also, open file handler with an append option. See <code>addHandler()</code> in <code>GreeterServlet.java</code>. Write:</p> <pre data-bbox="315 836 935 857">Handler fh = new FileHandler(log_file, true);</pre> <p data-bbox="315 876 415 897">instead of</p> <pre data-bbox="315 916 851 937">Handler fh = new FileHandler(log_file);</pre> <ol data-bbox="315 956 1286 1171" style="list-style-type: none"> <li>2. Edit the <code>build.xml</code> file as follows: <pre data-bbox="315 1003 1142 1098">&lt; fileset dir="\${src.docroot}" excludes="cvs,annontation"/&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="315 1190 763 1211"><b>PointBase 4.3 replaced with PointBase 4.4.</b></p> <p data-bbox="315 1230 1282 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="315 1326 406 1347"><b>Solution</b></p> <p data-bbox="315 1366 1272 1413">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="315 1432 1243 1491">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>

## ORB/IIOP Listener

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

ID	Summary
4743366	<p data-bbox="239 388 1225 411"><b>The address attribute in the iiop-listener element in the server.xml file does not support ANY.</b></p> <p data-bbox="239 430 1225 562">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="239 581 1225 656">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="239 675 325 697"><b>Solution</b></p> <p data-bbox="239 716 1225 765">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="239 788 1225 836"><b>RMI-IIOP clients will not work for IPv6 addresses where DNS address lookups fail for the IPv6 address.</b></p> <p data-bbox="239 855 1225 904">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="239 923 325 946"><b>Solution</b></p> <p data-bbox="239 965 1225 1013">Domain Name Service (DNS) should be set up at the deployment site in order to look up an IPv6 address.</p>
4810199	<p data-bbox="239 1036 1225 1085"><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 data-bbox="239 1104 1225 1182">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 data-bbox="239 1201 1225 1249">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 data-bbox="239 1269 325 1291"><b>Solution</b></p> <p data-bbox="239 1310 1225 1387">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 1406 1225 1466">&lt;jvm-options&gt;-Djavax.rmi.CORBA.UtilClass=com.ipplanet.ias.util.orbutil.IasUtilDelegate&lt;/jvm-options&gt;</pre>

ID	Summary
4847269	<p data-bbox="315 244 1162 269"><b>The J2SE 1.3.1_X client cannot communicate with Sun ONE Application Server 7.</b></p> <p data-bbox="315 284 1286 336">When the J2SE 1.3.1_X client communicates with Sun ONE Application Server 7, the client will core dump.</p> <p data-bbox="315 352 408 376"><b>Solution</b></p> <p data-bbox="315 392 639 418">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 data-bbox="315 710 1076 734"><b>On Solaris bundled version: Administration interface displays in English.</b></p> <p data-bbox="315 749 1305 802">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 data-bbox="315 817 408 841"><b>Solution</b></p> <p data-bbox="315 857 832 883">Manually set the locale entry in the <code>server.xml</code> file</p>
4957904	<p data-bbox="315 904 1239 928"><b>User cannot launch the Chinese version of the Administration interface after installation.</b></p> <p data-bbox="315 944 1239 996">After installing the Chinese version of Sun ONE Application Server, the Administration interface displays in English.</p> <p data-bbox="315 1012 408 1036"><b>Solution</b></p> <p data-bbox="315 1052 1026 1078">Manually set the locale entry in the <code>server.xml</code> file and restart the server.</p>
N/A	<p data-bbox="315 1098 1105 1123"><b>On Solaris, there are limitations associated with the Netscape 4.79 browser.</b></p> <ul data-bbox="315 1138 1305 1260" style="list-style-type: none"> <li data-bbox="315 1138 1305 1190">• When using Netscape 4.79 on Solaris, localized JavaScript messages display garbled characters. JavaScript cannot handle UTF-8 encoding.</li> <li data-bbox="315 1206 1305 1260">• When using Netscape 4.79 on Solaris in the Chinese GB18030 locale, GB18030 characters are not accepted.</li> </ul> <p data-bbox="315 1275 408 1300"><b>Solution</b></p> <p data-bbox="315 1315 1205 1341">On the Sun web site, download Netscape 6.23 or 7.0 for Solaris. This solves both problems.</p>

## Documentation

This section describes the known documentation issues and associated solutions.

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ID	Summary
4839719	<p data-bbox="239 387 1163 409"><b>Developer's Guide to Web Applications: Description of cookieName property misleading.</b></p> <p data-bbox="239 427 1249 534">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="239 552 328 574"><b>Solution</b></p> <p data-bbox="239 591 297 614">None.</p>

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ID	Summary
4720171	<p data-bbox="318 244 1162 267"><b>There is no documentation explaining the use of indexed deployment directories.</b></p> <p data-bbox="318 284 1305 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="318 461 1290 579" style="list-style-type: none"><li data-bbox="318 461 1290 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="318 557 1058 579">• Update the JAR file, create a new EAR file, and redeploy the application.</li></ul> <p data-bbox="318 597 1305 649">NOTE: Redeployment of the application on the Solaris platform is not necessary since there are no file locking constraints.</p> <p data-bbox="318 666 408 689"><b>Solution</b></p> <p data-bbox="318 706 1305 840">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="318 857 1236 880">appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_1</pre> <p data-bbox="318 897 1305 1062">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="318 1079 1290 1131">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="318 1149 1305 1267" style="list-style-type: none"><li data-bbox="318 1149 1305 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="318 1218 1290 1267">• Make the changes to the helloworld source, assemble it, and redeploy it without undeploying the previous deployment of helloworld.</li></ul> <p data-bbox="318 1284 1305 1362">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="318 1380 1236 1437">appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_1 appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_2</pre> <p data-bbox="318 1454 1108 1477">The second deployment of helloworld would be deployed under <code>helloworld_2</code>.</p>

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ID	Summary
4851218	<p data-bbox="239 244 1086 269"><b>You cannot use keytool to generate certificates with Sun ONE Application Server.</b></p> <p data-bbox="239 284 1090 309">Certificates generated with keytool are not compatible with Sun ONE Application Server.</p> <p data-bbox="239 324 329 348"><b>Solution</b></p> <p data-bbox="239 364 1225 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="239 434 793 458"><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="239 473 625 498">For information on using <code>certutil</code>, see:</p> <p data-bbox="239 513 936 538"><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="239 560 819 585"><b>Getting Started Guide built into the product is incorrect.</b></p> <p data-bbox="239 600 1225 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="239 670 329 694"><b>Solution</b></p> <p data-bbox="239 710 1225 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="284 779 524 803"><a href="http://docs.sun.com">http://docs.sun.com</a></p>
4875280	<p data-bbox="239 824 708 848"><b>Online help has some incorrect descriptions.</b></p> <p data-bbox="239 864 329 888"><b>Solution</b></p> <ul data-bbox="239 904 558 928" style="list-style-type: none"><li data-bbox="239 904 558 928">• In the <code>asprfhls.html</code> file:</li></ul> <p data-bbox="239 944 1225 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="239 1013 783 1038">If your browser does not support TLS, then select SSL3.</p> <p data-bbox="239 1053 465 1078">Instead, this should be:</p> <p data-bbox="239 1093 1225 1147">Determines whether SSL3 is enabled. For administrative purposes, deselecting SSL3 and using TLS only is recommended.</p> <p data-bbox="239 1163 783 1187">If your browser does not support TLS, then select SSL3.</p> <ul data-bbox="239 1203 492 1227" style="list-style-type: none"><li data-bbox="239 1203 492 1227">• In the <code>asprflo.html</code> file:</li></ul> <p data-bbox="239 1242 392 1267">Create Console</p> <p data-bbox="239 1282 986 1307">(Window only). When checked, a console window is created for <code>stderr</code> output.</p> <p data-bbox="239 1322 465 1347">Instead, this should be:</p> <p data-bbox="239 1362 392 1387">Create Console</p> <p data-bbox="239 1402 996 1426">(Windows only). When checked, a console window is created for <code>stderr</code> output.</p>

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ID	Summary
4879044	<p data-bbox="318 244 891 265"><b>Administrator's Guide: Compiler path is not applicable.</b></p> <p data-bbox="318 282 408 303"><b>Solution</b></p> <p data-bbox="318 326 1258 374">On Page 196 of the Update 1 <i>Sun ONE Application Server Administrator's Guide</i>, the following is incorrect.</p> <pre data-bbox="318 395 893 416">CC=/usr/dist/share/devpro/5.x-sparc/bin/cc</pre> <p data-bbox="318 437 1293 458">The above path is a Sun Internal path. Instead, the compiler's default installation directory should be:</p> <pre data-bbox="318 479 496 499">/opt/SUNWspro</pre>
4884043	<p data-bbox="318 526 1175 546"><b>Configuration File Reference: Transmit File parameter default is stated incorrectly.</b></p> <p data-bbox="318 564 408 585"><b>Solution</b></p> <p data-bbox="318 607 1268 656">The document description for the <code>TransmitFile</code> parameter in the <code>nsfc.conf</code> file specifies the following default:</p> <pre data-bbox="318 677 444 697">(for Unix) i.e.</pre> <pre data-bbox="318 718 536 739">TransmitFile=off</pre> <p data-bbox="318 760 1300 808">This is incorrect. The Transmit File check box by default is "enabled". As described in the document, it should have been disabled.</p>
4890285	<p data-bbox="318 828 965 848"><b>Some documents are not updated for the Solaris x86 platform.</b></p> <p data-bbox="318 871 1282 920">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>.</p> <p data-bbox="318 940 1275 989"><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.</p> <p data-bbox="318 1010 408 1031"><b>Solution</b></p> <p data-bbox="318 1052 1255 1100">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.</p>
4893954	<p data-bbox="318 1119 1290 1168"><b>Administrator's Guide doesn't include the information that log rotation using the Solaris cron script restarts the Sun ONE Application Server.</b></p> <p data-bbox="318 1189 408 1209"><b>Solution</b></p> <p data-bbox="318 1230 694 1251">Two types of log rotation are available:</p> <p data-bbox="318 1272 1300 1345">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.</p> <p data-bbox="318 1366 1279 1440">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.</p>

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ID	Summary
4896094	<p data-bbox="239 239 1253 265"><b>Administrator's Guide: Need instructions for setting ACC_CONFIG variable at installation.</b></p> <p data-bbox="239 279 1253 305"><b>Solution</b></p> <p data-bbox="239 319 1253 401">There are no instructions in the documentation for setting the ACC_CONFIG 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:</p> <p data-bbox="239 414 1253 522">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 AS_ACC_CONFIG 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:</p> <pre data-bbox="239 539 1253 565">AS_ACC_CONFIG=/var/appserver/domains/domain1/server1/config/sun-acc.xml</pre> <p data-bbox="239 579 1253 618">where <code>server1</code> is the application server instance you have created.</p>

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ID	Summary
4913290	<p data-bbox="317 239 1115 265"><b>Form Based Authentication does not provide the same functionality as in 6.5</b></p> <p data-bbox="317 279 1305 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="317 374 408 401"><b>Solution</b></p> <p data-bbox="317 414 1305 552">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="317 565 891 591">The following code example demonstrates the workaround:</p> <p data-bbox="317 605 634 631">Before changing the code in 6.5:</p> <pre data-bbox="365 645 1239 1265">-----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; out.println("arg1 is " + request.getParameter("arg1")); out.println("arg2 is " + request.getParameter("arg2")); &lt;/body&gt; &lt;/html&gt;</pre> <hr/>

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ID	Summary
<b>4913290</b> (Continued)	<p data-bbox="239 239 539 269">After changing the code in 7.0:</p> <pre data-bbox="285 286 939 590">-----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="239 607 999 637">The index-7.jsp shows how you can store the request parameters in a session.</p> <pre data-bbox="285 654 1059 1015">-----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; out.println("arg1 is " + (String)session.getAttribute("arg1")); out.println("arg2 is " + (String)session.getAttribute("arg2")); &lt;/body&gt; &lt;/html&gt;</pre>

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ID	Summary
4913611	<p data-bbox="315 244 829 269"><b>J2EE spec incompatibilities are not documented.</b></p> <p data-bbox="315 284 408 309"><b>Solution</b></p> <p data-bbox="315 324 1305 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 1305 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 1305 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 1232 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 1305 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 1305 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 1172 951"><b>The definition of idle-timeout-in-seconds in the Administrator's Guide is incorrect.</b></p> <p data-bbox="315 966 408 991"><b>Solution</b></p> <p data-bbox="315 1006 1305 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 1305 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 582 1168">This should be changed to:</p> <p data-bbox="315 1183 1305 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="239 244 1163 296"><b>The information on enabling statistics with stats-xml in the Performance Tuning Guide is incorrect.</b></p> <p data-bbox="239 314 328 338"><b>Solution</b></p> <p data-bbox="239 355 1196 407">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="239 425 1196 486" style="list-style-type: none"><li data-bbox="239 425 1196 449">• 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="239 466 678 491">• The example is incorrect. The entries for:<pre data-bbox="332 508 1163 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="332 638 849 663">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="239 723 856 748">• The introductions to Figure 4.1 and Figure 4.2 are incorrect.</p> <p data-bbox="239 765 1163 817">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="239 835 1120 859">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	<p data-bbox="315 244 908 269"><b>Web server plug-in installation instructions are incorrect</b></p> <p data-bbox="315 284 1300 336">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="315 352 408 376"><b>Solution</b></p> <p data-bbox="315 392 669 416">The procedure should be as follows:</p> <p data-bbox="315 432 651 456">Changes to Sun ONE Web Server</p> <p data-bbox="315 472 1229 524">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 591" style="list-style-type: none"><li data-bbox="315 539 1300 591">1. Create a directory in the web server installation area that will contain the web server (passthrough) plug-in. For example:<pre data-bbox="365 607 689 682">cd /webservice_install_dir/plugins mkdir -p passthrough/bin</pre></li><li data-bbox="315 697 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="365 765 1089 840">cd appserver_install_dir/lib cp libpassthrough.so webservice_install_dir/plugins/passthrough/bin</pre></li></ol> <p data-bbox="315 855 755 880">For Windows, copy the <code>passthrough.dll</code> file.</p> <ol data-bbox="315 895 1300 947" style="list-style-type: none"><li data-bbox="315 895 1300 947">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="365 963 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></ol>

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ID	Summary
4983280 (Continued)	<p>4. Edit the web server's <code>obj.conf</code> file, found under <code>webserver_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></p> <pre data-bbox="287 479 1119 635"> &lt;Object name="default"&gt; NameTrans fn="assign-name" from="( /webapp-context   /webapp-context/*)       "name="passthrough"  ... &lt;/Object&gt; </pre> <p>5. 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 data-bbox="287 753 1108 951"> 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. 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>7. In <code>app_server_instance/config/init.conf</code>, add the following lines as two lines, each starting with <code>Init</code>:</p> <pre data-bbox="287 1234 1200 1347"> 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>8. In <code>/domain/server_instance/config/server_instance-obj.conf</code>, enter the following lines:</p> <pre data-bbox="287 1411 1182 1550"> &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="318 239 719 265"><b>Clarify documentation relating to JMS.</b></p> <p data-bbox="318 279 1269 305">The documentation refers to an incorrect version of the Sun ONE Message Queue documentation.</p> <p data-bbox="318 319 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="318 414 408 440"><b>Solution</b></p> <p data-bbox="318 454 1093 510">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="318 524 1276 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="318 626 1300 652"><b>Administrator's Guide: the section titled "Deploying Static Content" contains an incorrect URL.</b></p> <p data-bbox="318 666 408 692"><b>Solution</b></p> <p data-bbox="318 706 415 732">The URL:</p> <p data-bbox="318 746 825 772"><code>http://server:port/NASApp/&amp;ltcontext_root/index.html</code></p> <p data-bbox="318 786 425 812">Should be:</p> <p data-bbox="318 826 716 852"><code>http://server:port/tcontext_root/index.html</code></p>
N/A	<p data-bbox="318 874 961 900"><b>J2EE CA SPI Administrator's Guide refers to wrong book title.</b></p> <p data-bbox="318 914 1262 970">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="318 984 408 1010"><b>Solution</b></p> <p data-bbox="318 1024 1100 1050">These references should be to the <i>Sun ONE Application Server Developer's Guide</i>.</p>
N/A	<p data-bbox="318 1069 1300 1124"><b>Sun ONE Application Server Administrator's Guide doesn't document using escape characters for the asadmin utility properly for Linux.</b></p> <p data-bbox="318 1138 408 1164"><b>Solution</b></p> <p data-bbox="318 1178 1300 1312">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="318 1326 1300 1352">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="239 239 1253 265"><b>Additional recommended configurations to improve performance.</b></p> <p data-bbox="239 279 1253 305"><b>Solution</b></p> <p data-bbox="239 319 1253 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="239 414 1253 440">Add or change the following settings:</p> <pre data-bbox="239 454 1253 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="239 826 1253 852">Remove the following setting:</p> <pre data-bbox="239 866 1253 892">&lt;jvm-options&gt;-Dsun.rmi.dgc.server.gcInterval=3600000&lt;/jvm-options&gt;</pre> <p data-bbox="239 906 1253 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="317 244 1222 269"><b>The Performance Tuning Guide does not include information on maximum heap space.</b></p> <p data-bbox="317 284 408 309"><b>Solution</b></p> <p data-bbox="317 324 846 348">The maximum heap space depends of various factors:</p> <ul data-bbox="317 364 876 473" style="list-style-type: none"><li data-bbox="317 364 822 388">• Maximum address space for a process (<code>maxPAS</code>)</li><li data-bbox="317 404 876 428">• Space that the process needs for stack space (<code>stack</code>)</li><li data-bbox="317 444 826 468">• Space that the process needs for libraries (<code>libs</code>)</li></ul> <p data-bbox="317 487 993 512">The following equation shows the value for the maximum heap space:</p> $\text{MaxHeapSpace} = \text{maxPAS} - \text{stack} - \text{libs}$ <p data-bbox="317 574 911 598">The maximum address space per process varies by platform:</p> <table data-bbox="365 618 751 869"><tbody><tr><td data-bbox="365 618 675 642">x86 / Redhat Linux 32 bit</td><td data-bbox="701 618 751 642">2 GB</td></tr><tr><td data-bbox="365 661 675 685">x86 / Redhat Linux 64 bit</td><td data-bbox="701 661 751 685">3 GB</td></tr><tr><td data-bbox="365 704 675 729">x86 / Win98/2000/NT/Me/XP</td><td data-bbox="701 704 751 729">2 GB</td></tr><tr><td data-bbox="365 748 675 772">x86 / Solaris x86 (32 bit)</td><td data-bbox="701 748 751 772">4 GB</td></tr><tr><td data-bbox="365 791 636 815">Sparc / Solaris 32 bit</td><td data-bbox="701 791 751 815">4 GB</td></tr><tr><td data-bbox="365 835 636 859">Sparc / Solaris 64 bit</td><td data-bbox="701 835 811 859">terabytes</td></tr></tbody></table> <p data-bbox="317 887 901 911">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
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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												

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## Redistributable Files

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

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## 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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- **Sun Software Support and Knowledge Base**  
<http://www.sun.com/service/support/software>
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<http://training.sun.com>
- **Sun ONE Consulting and Professional Services**  
<http://www.sun.com/service/sunps/sunone>
- **Sun Developer Network**  
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