

# Sun™ ONE Application Server 7 Release Notes

Version 7, Update 1

Part Number 817-2164-10

October 2003

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These release notes contain important information available at the time of the Version 7 Update 1 release of the Sun™ Open Network Environment (ONE) Application Server product. New features and 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 1 product.

This document contains the following sections:

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

Information on what's new in the Sun ONE Application Server 7, Update 1 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#hic>

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## Platform Summary

Information on the supported platform for the Sun ONE Application Server 7, Update 1 product can be found in the *Sun ONE Application Server Platform Summary* document at this location:

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

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## 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](#)
- [Accessibility](#)

## Sun ONE Application Server 7 Documentation

In addition to these release notes, the Sun ONE Application Server 7, Update 1 includes an entire set of documentation. The documents in Update 1 have different part numbers from documents in the initial release of the Sun ONE Application Server product.

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**NOTE** Some documents may be posted after the release of Sun ONE Application Server 7, Update 1. If a document listed here is not available on the Sun documentation site, check back later.

For significant issues, a document may be revised. In this case, the revised version will be posted to this site. The date last updated is displayed in the top right corner of the contents page for the HTML version of the document.

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The Sun ONE Application Server 7, Update 1 documents can be found at this location:

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

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*—(PN 817-2168-10) Provides a comprehensive, table-based summary of supported hardware, operating system, JDK and JDBC/RDBMS.
- *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 817-2169-10) 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 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 Services and APIs*—(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 817-1953-10) 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.
- Sun ONE Studio 4, Enterprise Edition for Java with Application Server 7 Tutorial—Provides an introduction to using Sun ONE Studio 4 with the Sun ONE Application Server.
- Sun ONE Application Server Studio Online Help—Provides content-specific online help for the Sun ONE Application Server modules that integrate with the Sun ONE Studio 4 product.

## 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 ONE Studio 4 Documentation

The Sun ONE Studio 4, Enterprise Edition product that is bundled with the Sun ONE Application Server has its own documentation that can be found at the following locations.

- For Sun ONE Studio 4, Enterprise Edition documentation:

<http://docs.sun.com/db/coll/790.3>

- Other Sun ONE Studio 4 documentation that may be of help can be found here:

<http://forte.sun.com/ffj/documentation/index.html>

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## 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.

# Software and Hardware Requirements

Information on the platform requirements for the Sun ONE Application Server 7, Update 1 product can be found in the *Sun ONE Application Server Platform Summary* document at this location:

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

The following table summarizes the Sun ONE Application Server requirements.

Operating System	Architecture	Minimum Memory	Recommended Memory	Minimum Disk Space	Recommended Disk Space
UNIX					
<ul style="list-style-type: none"> <li>Sun Solaris 8 or 9 for SPARC®</li> </ul>	32 and 64 bit	256 MB without Sun ONE Studio	512 MB	250 MB free	500 MB free
<ul style="list-style-type: none"> <li>Sun Solaris x86 Version 9, Update 2 (Solaris bundled and the Sun Java Enterprise System only)</li> </ul>	32 bit	512 MB with Sun ONE Studio			
Microsoft Windows					
<ul style="list-style-type: none"> <li>Windows 2000 Advanced Server, SP2</li> <li>Windows 2000 Server, SP2</li> <li>Windows 2000 Professional, SP2</li> <li>Windows XP Professional</li> </ul>	Intel 32 bit	256 MB without Sun ONE Studio 256 MB with Sun ONE Studio	256 MB without Sun ONE Studio 512 MB with Sun ONE Studio	250 MB free	500 MB free

## 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, 108827-26, 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.

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## Upgrade Notes

If you are upgrading an existing version of Sun ONE Application Server 7 to Sun ONE Application Server 7, Update 1, you will want to select the upgrade archive on the download site. Full instructions for upgrading to Sun ONE Application Server, Update 1 are contained in the *Sun ONE Application Server Update 1 Installation Guide* at this location:

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

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<b>NOTE</b>	The upgrade program is not available for Simplified Chinese or Japanese. Therefore, if you are upgrading from an existing installation to Sun ONE Application Server 7, Update 1 in Simplified Chinese or Japanese, you will need to use the uninstall program to uninstall your existing version of Sun ONE Application Server, then do a full install of Sun ONE Application Server 7, Update 1. Instructions are contained in the <i>Sun ONE Application Server 7, Update 1 Installation Guide</i> .
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## Resolved Issues

This section lists the issues resolved for the Sun ONE Application Server 7, Update 1 product.

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ID	Summary
4717324	Security information is not getting passed to the server from the RMI-IIOP Client.
4735625	Online help doesn't explain clearly how to use the Administration interface Profiler page.
4737808	Invalid JAR deployment results in confusing messages.
4740476	Online help doesn't explain Verifier and Precompile JSPs.

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ID	Summary
4742620	The <code>asadmin deploy</code> command documentation is incorrect.
4745637	Overloading of finder and selector methods causes parameter error.
4748351	Key columns don't appear to be mapped to key fields.
4755711	Invalid argument(s) for '<' occur when testing applications on Sun ONE Application Server 7.
4756093	Redeployment of an already deployed CMP-based application fails after server restart.
4756981	Permission problem occurs during the deployment process.
4758671	i18n: <code>asadmin help</code> does not pick up man pages in JA locale.
4764931	CMP 11finders are duplicated after deployment.
4765588	Proxy plug-in configuration setup steps are not accurate.
4766638	Scenarios for Sun ONE Studio 4 plug-in installation are missing.
4768721	Non-package install does not load <code>libnspr_flt4.so</code> causing performance degradation.
4768847	Cannot deploy an EAR file that contains subdirectories.
4769194	Exception thrown when Sun ONE Application Server 7 tries to compile a JSP.
4770733	CORBA Tie objects are unnecessarily cached in two separate tables.
4770939	The Commit C option for EJBs has an inefficient implementation.
4771005	PIORB is slow when <code>ClientRequestInterceptor</code> is used.
4774848	Client cert authentication does not work through proxy plug-in.
4776350	The <code>com.sun.enterprise.util.Utility.getPropertiesFromFile</code> is not JavaWebStart friendly.
4778410	EJBQL projections fail if the query constraint navigates two collection relationships.
4782108	Problem occurs when <code>RequestDispatcher</code> is used to call servlets between web applications.
4783983	i18n: Can't redirect to Japanese file name or URL using <code>sendredirect</code> .
4787940	Per Thread Client Programatic Login doesn't work when the client is running as standalone application outside the Sun ONE Application Server JVM.
4811414	Default policy file prevents use of <code>IasUtilDelegate</code> optimizations.
4812427	i18n: On Microsoft Windows: Temporary Directory is displayed in English.
4812717	i18n: English page is displayed after updating information.
4813680	Passthrough from Sun ONE Web Server 6 to Sun ONE Application Server 7 does not work properly.
4823065	i18n: Only language (not country) is used to load some pages for the Administration interface.

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# Known Problems and Limitations

This section describes known problems and associated workarounds for the Sun ONE Application Server 7, Update 1 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 \(i18n\)](#)
- [Solaris x86 Platform \(Solaris Bundled and Java Enterprise System Only\)](#)

- [Documentation](#)

## Installation and Uninstallation

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

ID	Summary
4403166	<p data-bbox="315 475 1336 539"><b>On Microsoft Windows, package/path/application names longer than 255 characters will fail to deploy applications.</b></p> <p data-bbox="315 545 1336 644">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="315 649 1336 696" style="list-style-type: none"> <li>• Example of a long application name:</li> </ul> <p data-bbox="315 701 1336 730">J2EE application name as <code>servlet_jsh_HttpServletRequestWrapper.ear</code></p> <ul data-bbox="315 736 1336 782" style="list-style-type: none"> <li>• Example of a long package name:</li> </ul> <p data-bbox="315 788 1336 817">The servlet is located in the following package:</p> <pre data-bbox="315 822 1336 956">servlet_jsh_HttpServletRequestWrapper_1\servlet_jsh_HttpServletRequestWrapper_war\WEB-INF\classes\tests\javax_servlet_http\HttpServletRequestWrapperHttpServletRequestWrapperConstructorTestServlet.class</pre> <ul data-bbox="315 961 1336 1008" style="list-style-type: none"> <li>• Example of a long path name:</li> </ul> <p data-bbox="315 1013 1336 1043">Sun ONE Application Server is installed as <code>drive \:&gt; Sun \ApplicationServer</code></p> <p data-bbox="315 1048 1336 1078"><b>Solution</b></p> <p data-bbox="315 1083 1336 1112">Consider the following solutions:</p> <ol data-bbox="315 1117 1336 1348" style="list-style-type: none"> <li>1. Make a shorter directory structure during installation. For example, <code>drive:&gt;App\</code> instead of the default <code>drive:\&gt;Sun\Apsserver7</code>.</li> <li>2. Use the <code>create_instance</code> command to rename the instance to something shorter. For example, <code>/instance1/domain1/</code> could be changed to <code>/i/d</code>.</li> <li>3. Have shorter package names, path names, and application names.</li> </ol>

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ID	Summary
<b>4687768</b>	<b>On Solaris setup-SDK/JDK, an error occurs when installing in command-line mode on a machine without Xwindows.</b>  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.  <b>Solution</b>  <ol style="list-style-type: none"><li>1. Install X Windows support packages temporarily, removing them after installing the Sun ONE Application Server product.</li><li>2. Install the Sun ONE Application Server packages using the <code>pkgadd</code> command and create the initial domain using <code>asadmin</code> commands.</li></ol>
<b>4719600</b>	<b>Warning messages occur during installation.</b>  During installation, some invalid error messages may occur. For example:  <pre>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> <b>Solution</b>  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.
<b>4737663</b>	<b>On Solaris, if you install both the package-based install and regular install, there is conflict.</b>  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 may see the following message when starting the second instance with the same domain/instance name:  <pre>SEVERE: JMS5024: JMS service startup failed. SEVERE: CORE5071: An error occurred during initialization</pre> In particular, the default domain and instance names are the same for both of these installations.  <b>Solution</b>  Follow the instructions in the "JMS Administration" chapter of the <i>Sun ONE Application Server Administrator's Guide</i> .

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ID	Summary
4742038	<b>Sun ONE Application Server does not start if the install directory contains non alpha-numeric characters.</b>  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: alphanumerics, - (dash) or _ (underscore). This also applies to entering existing Java 2 SDK directory during installation.  <b>Solution</b>  During installation, specify a directory where names contain only alphanumeric, dash, or underscore characters.
4742828	<b>Silent installer is not checking user permissions.</b>  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).  <b>Solution</b>  Make sure that silent installation is being run as the appropriate user.
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 may not display a warning message. The installation might complete successfully, but the Sun ONE Application Server may 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>

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ID	Summary
4742171	<p data-bbox="239 241 1172 296"><b>Installing a development installation over an existing evaluation installation in silent mode does not report an error.</b></p> <p data-bbox="239 317 1225 430">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.</p> <p data-bbox="239 449 334 473"><b>Solution</b></p> <p data-bbox="239 494 1219 548">Uninstall existing evaluation installations before installing a new development installation in the same location.</p>
4742552	<p data-bbox="239 569 1219 656"><b>Selecting Application Server and Support for 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></p> <p data-bbox="239 677 1219 847">Affects s 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.</p> <p data-bbox="239 866 334 890"><b>Solution</b></p> <p data-bbox="239 911 1196 999">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 4, Enterprise Edition for Java component.</p>
N/A	<p data-bbox="239 1020 1225 1107"><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 1128 1225 1241">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 1260 334 1284"><b>Solution</b></p> <p data-bbox="239 1305 1225 1359">To preserve the Sun ONE Message Queue installation after the Sun ONE Application Server is uninstalled:</p> <ol data-bbox="239 1380 1225 1524" style="list-style-type: none"><li data-bbox="239 1380 925 1406">1. Exit the installer when offered the automatic upgrade choice,.</li><li data-bbox="239 1426 1225 1480">2. Upgrade Sun ONE Message Queue to version 3.0.1 according to Sun ONE Message Queue documentation,.</li><li data-bbox="239 1501 839 1524">3. Run Sun ONE Application Server installation again.</li></ol>

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ID	Summary
4746410	<p data-bbox="317 239 1300 298"><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="317 315 1300 434">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 (/opt).</p> <p data-bbox="317 451 415 475"><b>Solution</b></p> <p data-bbox="317 493 1300 579">Before starting the installation, make sure that you have adequate disk space (85 MB) in /opt even if you do not plan to install in /opt. In addition, make sure you have adequate disk space (85 MB) in the target directory.</p>
4748404	<p data-bbox="317 597 1300 656"><b>On Microsoft Windows XP, cannot incrementally install sample applications and PointBase 4.2 components.</b></p> <p data-bbox="317 673 1300 822">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="317 840 415 864"><b>Solution</b></p> <p data-bbox="317 881 1300 968">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>
4748455	<p data-bbox="317 986 1300 1010"><b>Directory error occurs during generic silent install.</b></p> <p data-bbox="317 1027 1300 1114">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="317 1131 1300 1211" style="list-style-type: none"><li data-bbox="317 1131 1300 1166">• Selected directory is not writable.</li><li data-bbox="317 1183 1300 1211">• Selected directory string is empty or contains space characters.</li></ul> <p data-bbox="317 1229 415 1253"><b>Solution</b></p> <p data-bbox="317 1270 1300 1310">Check the supplied installation directory value for both issues to determine the cause of error.</p>

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ID	Summary
4749033	<p data-bbox="239 244 1186 296"><b>On Microsoft Windows XP, cannot uninstall standalone admin client installation using uninstaller.</b></p> <p data-bbox="239 319 1213 401">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="239 423 334 447"><b>Solution</b></p> <p data-bbox="239 470 1218 612">Uninstall a standalone admin client manually. Files located in the <i>install_dir</i> directory should be deleted. The related Program Group folder (Start-&gt;Programs-&gt;Sun Microsystems-&gt;Sun ONE Application Server) should also be removed. There are no related Microsoft Windows registry entries for a standalone admin client component; these steps will fully revert the system in the state before admin client installation.</p>
4749666	<p data-bbox="239 635 1200 687"><b>Samples documentation is not published to initial server instance if Sample Application component has been incrementally installed.</b></p> <p data-bbox="239 710 1182 878">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="239 900 334 925"><b>Solution</b></p> <p data-bbox="239 947 651 972">Access samples documentation locally.</p>
4754256	<p data-bbox="239 994 1182 1046"><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 1069 1225 1180">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 1203 711 1255">/etc/imq/passwd /etc/imq/accesscontrol.properties</pre> <p data-bbox="239 1277 1213 1329">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 1352 334 1376"><b>Solution</b></p> <p data-bbox="239 1399 1225 1486">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><b>On Solaris, an installer error message occurs while running installation from a CD.</b></p> <p>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="317 513 1305 621">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><b>Solution</b></p> <p>Installer functionality is not affected in any way. However, the following workaround exists:</p> <ol data-bbox="317 736 1305 835" 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="359 861 565 883"># mkdir /cdrom</pre> </li> <li>3. Mount the CD-ROM drive.</li> </ol> <p>NOTE: 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>If you are running File Manager, a separate File Manager window displays the contents of the CD-ROM.</p> <ol data-bbox="317 1098 1305 1180" 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="359 1206 848 1229"># 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="359 1324 862 1347"># ps -ef   grep vold   grep -v grep</pre> </li> <li>6. Stop the <code>vold</code> process by entering: <pre data-bbox="359 1416 762 1439"># kill -15 process_ID_number</pre> </li> <li>7. Mount the CDRom manually: <pre data-bbox="359 1508 1119 1531"># mount -F hsfs -r ro /dev/dsk/cxytd0sz /cdrom/cdrom0</pre> </li> </ol> <p>where <code>x</code> is the CD-ROM drive controller number, <code>y</code> is the CD-ROM drive SCSI ID number, and <code>z</code> is the slice of the partition on which the CD-ROM is located.</p> <p>You have now mounted the CD-ROM drive. Refer to <a href="#">Installing and Setting Up CD One on Solaris</a> for procedures on installation.</p>

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ID	Summary
4755165	<p data-bbox="239 239 1220 300"><b>On Microsoft Windows, Installer functionality is affected if administrator user credentials are supplied only when running setup.exe.</b></p> <p data-bbox="239 317 1220 465">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="239 482 1220 581" style="list-style-type: none"><li data-bbox="239 482 1220 534">• The installer will hang if the Browse button is selected on the installation directory selection screen.</li><li data-bbox="239 552 1220 581">• Program Group entries for the Sun ONE Application Server items may not be created.</li></ul>
4757687	<p data-bbox="239 598 335 624"><b>Solution</b></p> <p data-bbox="239 642 1021 668">Log in as user with administrator privileges when performing installation.</p> <p data-bbox="239 690 1220 777"><b>On Solaris, incremental installation of the Sun ONE Application Server component on the system with previously installed Administration Client component may result in an unusable installation.</b></p> <p data-bbox="239 795 1220 1064">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 1081 335 1107"><b>Solution</b></p> <p data-bbox="239 1124 1220 1185">Uninstall the standalone Administration Client before attempting to install the Sun ONE Application Server on the same Solaris system.</p> <p data-bbox="239 1203 1220 1291">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="315 239 1290 296"><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 1262 401">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="315 418 779 493" style="list-style-type: none"><li data-bbox="315 418 694 442">• Installation directory: <i>install_dir</i></li><li data-bbox="315 460 779 493">• Configuration directory: <i>install_dir/etc</i></li></ul> <p data-bbox="315 510 1258 567">The pkgadd log file in the <code>/var/sadm/install/logs</code> directory will contain following error message:</p> <pre data-bbox="315 585 976 642">pkgadd: ERROR: duplicate pathname /install_dir/etc pkgadd: ERROR: unable to process pkgmap</pre> <p data-bbox="315 659 415 683"><b>Solution</b></p> <p data-bbox="315 701 1015 736">Select a custom configuration directory other than <i>install_dir/etc</i>.</p>
4724612	<p data-bbox="315 753 1268 777"><b>On Solaris, PointBase shell scripts fail if run by someone other than the installing user.</b></p> <p data-bbox="315 795 1305 852">This issue affects only the evaluation installation for Solaris. All PointBase shell scripts are set to execute permission only for the installing user.</p> <p data-bbox="315 869 415 894"><b>Solution</b></p> <p data-bbox="315 911 1300 968">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="315 986 1219 1043"><b>On Solaris, Sun ONE Message Queue package SUNWiqsup is not removed during Message Queue upgrade process.</b></p> <p data-bbox="315 1060 1282 1182">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 1199 1300 1315">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 1333 415 1357"><b>Solution</b></p> <p data-bbox="315 1374 1196 1407">Manually remove the SUNWiqsup package using the following command (as root):</p> <pre data-bbox="315 1425 562 1449"># pkgrm SUNWiqsup</pre>

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## 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.

ID	Summary
4725893	<p data-bbox="239 1178 853 1203"><b>On Solaris, License expiration information is not shown.</b></p> <p data-bbox="239 1225 1249 1338">Affects Solaris 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="239 1361 335 1385"><b>Solution</b></p> <p data-bbox="239 1407 508 1430">Check the server log files.</p>

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ID	Summary
4738648	<p data-bbox="315 239 915 269"><b>JMS service/Sun ONE Application Server startup fails.</b></p> <p data-bbox="315 286 1279 373">If the JMS provider (Sun ONE Message Queue broker) has a large number of undelivered persistent messages, a Sun ONE Application Server initialization failure may occur due to following problems:</p> <ol data-bbox="315 390 1279 442" style="list-style-type: none"><li data-bbox="315 390 1279 442">1. As it tries to load all the pending messages, the MQ broker may run out of memory and abort.</li></ol> <p data-bbox="315 460 415 489"><b>Solution</b></p> <p data-bbox="315 506 1293 558">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="315 576 1300 645">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="315 663 1265 715" style="list-style-type: none"><li data-bbox="315 663 1265 715">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="315 732 415 762"><b>Solution</b></p> <p data-bbox="315 779 1308 866">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	<b>Firewall rules may cause Sun ONE Application Server startup failures.</b>

If you have a personal firewall installed, you may experience this problem. The presence of strict firewall rules on the same machine as a Sun ONE Application Server installation may 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 may block such attempts.

The local firewall may 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 may overlap with port numbers used in known popular attacks. Some symptoms of this problem:

- An attempt to start the Sun ONE Application Server using the Microsoft Windows program group item “Start Application Server” fails with this message:
 

```
Could not start the instance: domain1:admin-server
server failed to start: abnormal subprocess termination
...
```
- The administrative and server instance log files contain connection exceptions followed by this message: CORE3186: Failed to set configuration

### Solution

Modify the firewall policy to allow the Sun ONE Application Server to make connection attempts to ports on the local system.

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.

To determine the port numbers used by the Admin Server and App Server instances, see the `server.xml` file in the following location of your Sun ONE Application Server installation:

```
domain_config_dir/domain1/admin-server/config/server.xml
domain_config_dir/domain1/server1/config/server.xml
```

where *domain\_config\_dir* is the location of your initial server configuration. For example:

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/...

Look for the port settings in the `<iioop-listener>` and `<jms-service>` 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.

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ID	Summary
4780076	<p><b>On Solaris, the Sun ONE Application Server starts all instances as root thereby allowing non-root users to have root access.</b></p>

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There are several issues associated with application server startup when the Sun ONE Application Server is installed as part of a Solaris installation (bundled):

- 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.
- 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.

### Background

During installation of the Sun ONE Application Server as part of a Solaris installation, the `/etc/init.d/appserv` script and symbolic links to the `S84appserv` and `K05appserv` scripts in the `/etc/rc*.d/` 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.

The `/etc/init.d/appserv` script contains the following section of code:

```
...
case "$1" in
'start')
    /usr/sbin/asadmin start-appserv
    ;;
'stop')
    /usr/sbin/asadmin stop-appserv
    ;;
...

```

Execution of the `asadmin start-appserv` 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 `startserv` and is located at `instance-dir/bin/startserv`. Since instances may be owned by users other than root, the `startserv` scripts could be modified by the non-root user to execute commands as the root user.

In cases where an instance is using a privileged network port, the instance's `startserv` 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.

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**ID**            **Summary**


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**(cont.)**        **Solution**


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Perform one of the following workarounds depending on your environment:

- 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 `asadmin start-appserv` and `asadmin stop-appserv` commands in the `etc/init.d/appserv` script.
- 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 `/etc/init.d/appserv` script to start the domains and/or instances of interest or define new `/etc/rc*.d/` scripts that suit the needs of your environment.
- 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 `su` command with the `-c` option is used to start the domains and/or instances of interest.

**Examples**

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 `/etc/rc*.d/` scripts as follows:

```
...
case "$1" in
'start')
    /usr/sbin/asadmin start-domain --domain production-domain
    ;;
'stop')
    /usr/sbin/asadmin stop-domain --domain production-domain
    ;;
...

```

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ID	Summary
(cont.)	<ul style="list-style-type: none"> <li data-bbox="318 244 1265 300">• 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="318 331 1165 769"> ... 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="318 791 1293 847">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>

## Database Driver

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

ID	Summary
4700531	<p data-bbox="239 270 782 291"><b>On Solaris, an ORACLE JDBC driver error occurs.</b></p> <p data-bbox="239 317 1225 401">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="239 421 334 442"><b>Solution</b></p> <p data-bbox="239 465 1225 522">Obtain and apply the patch to your server from the Oracle Web site for Bug 2199718. Perform the following steps:</p> <ol data-bbox="239 543 962 838" style="list-style-type: none"> <li data-bbox="239 543 548 564">1. Go to the Oracle web site.</li> <li data-bbox="239 585 548 605">2. Click the 'patches' button.</li> <li data-bbox="239 626 701 647">3. Type 2199718 in the patch number field.</li> <li data-bbox="239 668 962 689">4. Click the 32-bit Solaris OS patch.Go to <code>Metalink.oracle.com</code>.</li> <li data-bbox="239 710 425 730">5. Click patches.</li> <li data-bbox="239 751 658 772">6. Under patch number, enter 2199718.</li> <li data-bbox="239 793 619 814">7. Click the 32 bit Solaris OS patch.</li> </ol>
4707531	<p data-bbox="239 861 1162 918"><b>On Solaris, accessing an Oracle 9.1 database with an Oracle 9.2 Client may cause data corruption.</b></p> <p data-bbox="239 939 1225 996">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 1017 1193 1100">The problem might be caused by using the <code>ojdbc14.jar</code> 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 1121 334 1142"><b>Solution</b></p> <p data-bbox="239 1163 1210 1220">Obtain the patch that Oracle might make available from the Oracle web site for Bug 2199718 and apply it to your server.</p>

## Web Container

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

ID	Summary
4740477	<p data-bbox="318 270 1265 322"><b>The web cache example in sun-web-app_2_3-0.dtd file provides incorrect syntax for the timeout element.</b></p> <p data-bbox="318 348 996 369">The <code>timeout</code> element is specified to use in XML cache object as:</p> <pre data-bbox="318 378 648 399">&lt;timeout&gt; 60 &lt;/timeout&gt;</pre> <p data-bbox="318 423 1065 444">Because the <code>name</code> parameter is a required field, it should be written as:</p> <pre data-bbox="318 453 775 473">&lt;timeout name="foo"&gt;60&lt;/timeout&gt;</pre> <p data-bbox="318 498 415 519"><b>Solution</b></p> <p data-bbox="318 543 575 564">Do not use with verifier.</p>

## EJB Container

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

ID	Summary
4735835	<p data-bbox="318 899 1036 920"><b>Cannot properly handle null PKs returned from <code>ejbFind</code> methods.</b></p> <p data-bbox="318 944 1276 1027">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="318 1052 1043 1072" style="list-style-type: none"> <li data-bbox="318 1052 1043 1072">1. <code>find insurance.employee where insurance.id == 10</code></li> </ol> <p data-bbox="318 1097 1168 1117">This returns null if such insurance does not have an employee associated with it.</p> <ol data-bbox="318 1142 1086 1163" style="list-style-type: none"> <li data-bbox="318 1142 1086 1163">2. <code>find all insurance.employee where insurance.id &gt; 10</code></li> </ol> <p data-bbox="318 1187 1258 1239">This returns a collection that might contain nulls for those insurances that do not have an employee.</p> <p data-bbox="318 1263 1115 1315">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="318 1340 1305 1392">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="318 1416 415 1437"><b>Solution</b></p> <p data-bbox="318 1461 382 1482">None.</p>

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ID	Summary
4744434	<b>The Sun ONE Application Server occasionally throws Null Pointer Exception when using stateful session beans.</b>  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.  <b>Solution</b>  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.

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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 <code>classes12.zip</code> file 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 <code>classes12.zip</code> file 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
4742757	<p data-bbox="317 239 1043 267"><b>Cascade-delete does not work for CMRs with overlapping PK/FKs.</b></p> <p data-bbox="317 286 1305 371">Related elements of a container-managed relationship (CMR) field cannot be deleted with the <code>cascade-delete</code> functionality if such CMR field is mapped to a database schema with overlapping primary key/foreign key constraints.</p> <p data-bbox="317 390 1305 506">An example of such schema is an Order-LineItem relationship. If an application with such a schema tries to delete an Order bean, and the corresponding relationship is marked for <code>cascade-delete</code>, the caller gets the following error message about not allowing update of a primary key:</p> <pre data-bbox="317 526 1219 670">java.rmi.RemoteException: Exception thrown from bean; nested exception is: javax.ejb.EJBException: nested exception is: com.sun.jdo.api.persistence.support.JDOUserException: Incorrect attempt to remove an instance from a managed relationship.</pre> <p data-bbox="317 689 1305 831">The relationship is defined by a primary key column on the other side. A remove operation on a collection requires updating the column on the other side, and primary key update is not allowed. Therefore, removal of an instance from a managed relationship collection defined by a primary key can only be done by deleting the instance, either explicitly or by <code>cascade-delete</code>.</p> <pre data-bbox="317 850 1260 935">NestedException: com.sun.jdo.api.persistence.support.JDOUnsupportedOptionException: Update of a primary key field is not allowed.</pre> <p data-bbox="317 954 415 979"><b>Solution</b></p> <p data-bbox="317 998 901 1025">Either of these solutions can be used as a work around:</p> <ol data-bbox="317 1045 1268 1178" style="list-style-type: none"><li data-bbox="317 1045 1268 1130">1. Do not use <code>cascade-delete</code> for relationships mapped to a table with overlapping PK/FKs. Iterate over-related beans, and call <code>remove</code> on each of them separately before removing the owning bean.</li><li data-bbox="317 1149 1001 1178">2. Change the table definition not to have overlapping PK/FKs.</li></ol>

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ID	Summary
4747222	<p data-bbox="237 239 1163 265"><b>On Oracle, the capture-schema utility does not work if -schemaname is not specified.</b></p> <p data-bbox="237 286 1213 343">The capture-schema utility has the following problems if the <code>-schemaname</code> option is not specified when capturing database schema information from the Oracle (R) database:</p> <ol data-bbox="237 361 1063 387" style="list-style-type: none"> <li data-bbox="237 361 1063 387">1. If you attempt to capture all tables (that is, no tables are explicitly chosen):</li> </ol> <pre data-bbox="237 407 1128 494">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="237 512 421 538">You will receive:</p> <pre data-bbox="237 541 806 598">java.sql.SQLException ORA-00942: table or view does not exist.</pre> <p data-bbox="237 616 606 642">The resulting output file is broken.</p> <ol data-bbox="237 659 899 685" style="list-style-type: none"> <li data-bbox="237 659 899 685">2. If one or more tables are specified with the <code>-table</code> option:</li> </ol> <pre data-bbox="237 706 1128 793">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="237 810 1192 868">The resulting file has the specified tables, but no column information, which means the file can't be used for CMP mapping.</p> <p data-bbox="237 885 335 911"><b>Solution</b></p> <p data-bbox="237 928 1192 986">When capturing a schema from the Oracle database, always use the <code>-schemaname</code> option with the user name in uppercase letters as the value:</p> <pre data-bbox="237 1006 1220 1093">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="237 1111 1220 1168"><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="237 1185 1220 1359">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 <code>-table</code> option when capturing a database schema from Oracle or PointBase (such as <code>-table student</code> or <code>-table Student</code>). The generated database schema file will not contain any columns information for the corresponding table.</p> <p data-bbox="237 1376 335 1402"><b>Solution</b></p> <p data-bbox="237 1420 1013 1446">Use uppercase letters to specify table names (such as <code>-table STUDENT</code>).</p>

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ID	Summary
4852757	<p data-bbox="315 239 675 267"><b>Deployment of CMP beans fails.</b></p> <p data-bbox="315 286 1179 343">The following error is thrown because there are no &lt;query-params&gt; entries in the container-managed persistence (CMP) bean in <code>sun-ejb-jar.xml</code> file:</p> <pre data-bbox="315 362 1276 420">Error while running ejbc. Fatal error from EJB Compiler ---- Error while processing CMP beans.</pre> <p data-bbox="315 435 415 463"><b>Solution</b></p> <p data-bbox="315 482 1242 539">Even if it isn't necessary for the CMP beans, add the <code>query-params</code> tag for finders in the <code>sun-ejb-jar.xml</code> file with the empty parameters.</p>

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## 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.

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ID	Summary
4683029	<p data-bbox="315 852 1305 909"><b>The <code>-javahome</code> flag in all MQ Solaris/Microsoft Windows scripts does not work if the value has a space.</b></p> <p data-bbox="315 928 1305 1045">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="315 1064 722 1138" 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="315 1157 1305 1361">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="315 1380 415 1407"><b>Solution</b></p> <p data-bbox="315 1426 1305 1484">Make sure that the Java runtime used by the Sun ONE Application Server is located at a path that does not contain spaces.</p>

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## 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><b>The connection from XADatasource in non-txn context cannot be used.</b></p> <p>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><b>Solution</b></p> <p>Use the non-XA datasource class to call the commit/rollback programs explicitly rather than through transactions.</p>
4700241	<p><b>Non-zero transaction timeout setting causes slow local transactions.</b></p> <p>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 may 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><b>Solution</b></p> <p>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 11</a> for information on this problem.</p>
4703680	<p><b>Redeploying an EJB module (with MDB) throws a resource conflict exception.</b></p> <p>This occurs on Microsoft Windows 2000 using Sun ONE Studio 4 when using message-driven beans (MDBs). If an EJB module contains an MDB that utilizes a specific queue, then re-deploying the same EJB module with the same MDB (utilizing the same Queue) causes a resource conflict. This makes (modified) module un-usable.</p> <p><b>Solution</b></p> <p>None.</p>

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ID	Summary
4725147	<b>Cannot choose a particular virtual server for deployment.</b>  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.  <b>Solution</b>  The virtual server hostname should not be the same as the original hostname, especially when the same HTTP listener is used.
4734969	<b>Can't deploy application with user's Query class in the bean package.</b>  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.  <b>Solution</b>  Move the Query class into another or separate package.
4750461	<b>On Solaris, the Sun ONE Application Server might crash during dynamic reloading.</b>  For a large application (with many enterprise beans), a crash may 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.  <b>Solution</b>  <ol style="list-style-type: none"><li>1. 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>2. Reboot the system.</li></ol>

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ID	Summary
4744128	<p data-bbox="317 244 1065 265"><b>The EJB compiler fails to generate valid JAVA code for inner classes.</b></p> <p data-bbox="317 288 1286 343">The EJB compiler fails to generate valid JAVA code for the implementation of the enterprise bean that uses inner classes as the return type.</p> <pre data-bbox="317 366 1262 847"> public interface IStateServer {     ....     public StateProperties getProperties(String objectID, String variantName, IToken securityToken) throws RemoteException;      public class StateProperties implements Serializable {         public StateProperties() {         }         public String description = "";         public String owner = "";         public Date modifyTime = new Date();         public String accessPermissions = "";     } } public interface IStateServerEJB extends EJBObject, IStateServer {     .... } </pre> <p data-bbox="317 869 841 890">Note method <code>getProperties</code> returns an inner class.</p> <p data-bbox="317 913 544 933">Example of the error:</p> <pre data-bbox="317 956 1308 1038"> D:\AppServer7a\appserv\domains\domain1\server1\generated\ejb\j2ee-app s\smugglercom\spss\ssp\state\ejb\StateServerEJB_EJBObjectImpl.java:13 3: </pre> <p data-bbox="317 1060 905 1081">Direct use of synthetic inner class names is not allowed:</p> <pre data-bbox="317 1095 989 1116">com.spss.ssp.state.IStateServer\$StateProperties</pre> <p data-bbox="317 1138 636 1159">The generated code should be</p> <pre data-bbox="317 1173 989 1194">com.spss.ssp.state.IstateServer.StateProperties</pre> <p data-bbox="317 1216 425 1237">instead of</p> <pre data-bbox="317 1251 989 1272">com.spss.ssp.state.IstateServer\$StateProperties</pre> <p data-bbox="317 1295 415 1315"><b>Solution</b></p> <p data-bbox="317 1338 1039 1359">Move <code>StateProperties</code> to a separate (standalone not inner) class.</p>

## Verifier

This section describes the known verifier issues and associated solutions.

ID	Summary
4742545	<p><b>Standalone verifier shows EJB Class Not Found errors.</b></p> <p>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><b>Solution</b></p> <p>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>
4743480	<p><b>Verifier cannot detect the methods declared in the super interface of the local home interface.</b></p> <p>The verifier performs tests on the local home interface to check the interface for conformance to the J2EE specification. Some of the tests for the <code>findByPrimaryKey</code> method fail if you have a derived local home interface and the required method is declared in the super interface of the home interface. The failed tests are those performed by the tests named <code>HomeInterfaceFindByPrimaryKeyArg</code>, <code>HomeInterfaceFindByPrimaryKeyName</code>, <code>HomeInterfaceFindByPrimaryKeyReturn</code>, and <code>PrimaryKeyClassOpt</code>. Deployment would also fail if you use the <code>-verify</code> option with the module or application.</p> <p><b>Solution</b></p> <p>The test results can be ignored if the function has been properly declared in the super interface for the local home interface. In this case, do not use the <code>-verify</code> option with the deployment command. The deployment will complete correctly. A workaround is to declare the same function again in the derived home interface to pass the verification tests.</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 may not be supported in future releases, such as:
  - `cmt-max-runtime-exceptions` property of the `mdb-container` element

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

ID	Summary
4742559	<p data-bbox="237 265 1249 300"><b>If IPv6 is not used in your network, this problem does not apply to you.</b></p> <p data-bbox="237 314 1249 343">NOTE: If IPv6 is not used in your network, this problem does not apply to you.</p> <p data-bbox="237 357 1249 447">By default, the Sun ONE Application Server uses IPv4. This is supported by all platforms on which the Sun ONE Application Server is available. In certain platforms, IPv6 is supported. In this case, Sun ONE Application Server configuration changes are required for conformance.</p> <p data-bbox="237 461 1249 552">NOTE: If these configuration changes are to be made, it is essential to be absolutely sure of IPv6 support on the platforms. Server instances may not start if the IPv6-related configuration is applied to a system that has only IPv4 support.</p> <p data-bbox="237 565 1249 595"><b>Solution</b></p> <p data-bbox="237 609 1249 638">Perform the following configuration changes:</p> <ol data-bbox="237 652 1249 960" 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 data-bbox="237 973 1249 1038">Setting the Family field to INET6 does not disable IPv4 functionality unless an IPv6 address is selected for IP address. Selecting an IP address of ANY will match any IPv4 or IPv6 address.</p> <ol data-bbox="237 1052 1249 1263" 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.

ID	Summary
4734595	<p data-bbox="318 756 948 779"><b>Total-connections-failed-validation does not show values.</b></p> <p data-bbox="318 802 1286 824">The issue is with the inherent double pooling problem in the reference implementation (RI).</p> <p data-bbox="318 847 415 869"><b>Solution</b></p> <p data-bbox="318 892 382 914">None.</p>
4737227	<p data-bbox="318 939 861 961"><b>FlagAsyncEnabled does not set to 1 in http-server.</b></p> <p data-bbox="318 984 822 1006">This is a known the Sun ONE Web Server issue.</p> <p data-bbox="318 1029 415 1052"><b>Solution</b></p> <p data-bbox="318 1074 382 1097">None.</p>
4752199	<p data-bbox="318 1121 1158 1177"><b>Monitoring bean method attribute values are not shown for <code>getPrimaryKey()</code>, <code>getEJBMetaData()</code>, <code>getHomeHandle()</code> methods.</b></p> <p data-bbox="318 1199 1236 1281">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 data-bbox="318 1303 415 1326"><b>Solution</b></p> <p data-bbox="318 1348 382 1371">None</p>

## Server Administration

This section contains the following sections:

- [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
<b>4676889</b>	<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>
<b>4680409</b>	<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	<b>Using the asterisk (*) character in single-mode CLI command results in unexpected behavior and/or error messages.</b>  The asterisk character is being expanded by the underlying shell into a list of names, and it is this list of names that is being seen by the command-line interface (CLI) command. Putting quote marks around the asterisk prevents the shell from expanding the asterisk, and thus the CLI gets to see the asterisk itself.  <b>Solution</b>  Use quote characters (either single or double quotes) around the asterisk.
4701361	<b>Repeated changes applied to any instance eventually results in an out of memory error.</b>  The Admin Server keeps a record of all changes performed to the system, which requires memory. This change record (but not the changes themselves) is discarded during a reconfiguration, thus releasing the memory for use.  <b>Solution</b>  Use the <code>asadmin reconfig</code> command periodically to discard old change records.
4704328	<b>Cleanup does not happen when a call to create a duplicate domain fails.</b>  When a domain that already exists is created, an appropriate error message is generated. However, a directory specified by the <code>-path</code> option in the <code>create-domain</code> command is created if it did not exist earlier. This should be removed since the command failed.  <b>Solution</b>  Remove any additional empty directory specified that might be created after the <code>-path</code> option is used.
4708813	<b>Cannot monitor the default (pointbase) connection-pool JDBC resources.</b>  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.  <b>Solution</b>  Create the desired connection pool to allow monitoring.

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ID	Summary
4722007	<p data-bbox="239 239 1253 265"><b>Monitoring: Execution times of less than 1 millisecond cannot be measured.</b></p> <p data-bbox="239 282 1253 343">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="239 361 1253 447">iasadmin&gt;get -m server1.application.usecase1app.ejb-module.UseCase1Ejb_jar.entity-bea n.BeanOne.bean-method.method_create0.*</pre> <p data-bbox="239 465 1253 491">The following attributes are returned:</p> <pre data-bbox="239 508 1253 743">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="239 760 1253 873">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="239 890 1253 916"><b>Solution</b></p> <p data-bbox="239 933 1253 960">None.</p>
4733109	<p data-bbox="239 986 1253 1046"><b>Verifier error reported in Administration interface when viewing Persistence Manager Factory resource created from command-line interface.</b></p> <p data-bbox="239 1064 1253 1142">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="239 1159 1253 1220">ArgChecker Failure: Validation failed for jndiName: object must be non-null</pre> <p data-bbox="239 1237 1253 1263"><b>Solution</b></p> <p data-bbox="239 1281 1253 1307">None.</p>

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ID	Summary
4742993	<p data-bbox="315 239 1305 296"><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="315 314 1305 401">If you are running a version that is integrated into the Solaris operating environment, and you use the <code>flexanlg</code> command from <code>/usr/appserver/bin</code>, an open failure error is displayed.</p> <pre data-bbox="315 418 1305 505">ld.so.1: /usr/appserver/bin/flexanlg: fatal: libplc4.so: open failed: No such file or directory Killed</pre> <p data-bbox="315 522 415 546"><b>Solution</b></p> <p data-bbox="315 564 548 588">Complete these steps.</p> <ol data-bbox="315 609 919 633" style="list-style-type: none"><li data-bbox="315 609 919 633">1. Add the following entry to <code>LD_LIBRARY_PATH</code> file:</li></ol> <pre data-bbox="315 661 476 685">usr/lib/mps</pre> <ol data-bbox="315 703 733 727" style="list-style-type: none"><li data-bbox="315 703 733 727">2. Then run the <code>flexanlg</code> command.</li></ol> <pre data-bbox="315 748 733 772">% /usr/appserver/bin/flexanlg</pre>
4750518	<p data-bbox="315 795 996 819"><b>Some CLI commands do not work on the target Admin Server.</b></p> <p data-bbox="315 836 1305 923">The <code>create</code>, <code>delete</code>, or <code>list</code> 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 <code>server.xml</code> file of the Admin Server.</p> <p data-bbox="315 940 415 965"><b>Solution</b></p> <p data-bbox="315 982 1248 1006">Use the Administration interface to create, delete, and list elements in the Admin Server.</p>

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## Administration Infrastructure

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

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ID	Summary
4676888	<p data-bbox="239 270 1229 288"><b>On Microsoft Windows 2000, cannot create JVM when JVM heap size is set to a large value.</b></p> <p data-bbox="239 314 1186 366">If you try to set a larger JVM heap size on Windows 2000, you may get the following error message:</p> <pre data-bbox="239 392 896 470">Error occurred during initialization of VM, Could not reserve enough space for object heap Internal error: unable to create JVM</pre> <p data-bbox="239 496 334 513"><b>Solution</b></p> <p data-bbox="239 539 1186 591">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="239 618 1200 722">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 0x6000000. For more details on rebase utility:</p> <p data-bbox="239 748 1222 800"><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="239 826 391 843">Requirements:</p> <ul data-bbox="244 869 868 939" 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="239 965 872 982">To apply rebase to S1AS dynamic libraries do the following:</p> <ol data-bbox="244 1008 634 1164" 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="239 1190 762 1208"><b>HTTP Quality of Service limits are not enforced.</b></p> <p data-bbox="239 1234 1215 1338">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="239 1364 334 1381"><b>Solution</b></p> <p data-bbox="239 1407 1215 1512">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>

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ID	Summary
4692673	<p data-bbox="315 239 1296 298"><b>Restarting an instance in debug mode seems to fail if the instance is originally running in non-debug mode.</b></p> <p data-bbox="315 315 1296 430">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 data-bbox="315 447 415 472"><b>Solution</b></p> <p data-bbox="315 489 382 513">None.</p>
4699450	<p data-bbox="315 539 1296 598"><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 data-bbox="315 616 1296 703">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 data-bbox="315 720 415 744"><b>Solution</b></p> <p data-bbox="315 762 1296 821">When deploying an application, use a path and file name that are less than 260 characters combined.</p>
4723776	<p data-bbox="315 838 1296 869"><b>On Solaris, server fails to restart when converting to an SSL-enabled environment.</b></p> <p data-bbox="315 887 1296 1032">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 data-bbox="315 1050 1296 1109">NOTE: This problem only occurs the first time the server is restarted. Subsequent restarts work fine.</p> <p data-bbox="315 1126 415 1150"><b>Solution</b></p> <p data-bbox="315 1168 722 1192">If you have encountered this problem:</p> <ul data-bbox="329 1209 568 1234" style="list-style-type: none"><li>Click the Start button.</li></ul> <p data-bbox="315 1251 1258 1275">To avoid this problem, perform the following steps instead of clicking the Restart button.</p> <ul data-bbox="329 1293 568 1359" style="list-style-type: none"><li>Click the Stop button.</li><li>Click the Start button.</li></ul>

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ID	Summary
4724780	<p data-bbox="239 241 996 265"><b>Cannot start Admin Server if the domain is created in another system.</b></p> <ul data-bbox="289 288 1225 494" style="list-style-type: none"> <li data-bbox="289 288 1225 378">• 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 data-bbox="289 401 1225 494">• 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 data-bbox="239 517 335 541"><b>Solution</b></p> <p data-bbox="239 564 302 588">None.</p>
4734184	<p data-bbox="239 609 936 633"><b>On Microsoft Windows 2000, the console is sometimes disabled.</b></p> <p data-bbox="239 656 1190 737">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="239 760 335 784"><b>Solution</b></p> <p data-bbox="239 807 1213 888">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 may also solve this problem.</p>
4736554	<p data-bbox="239 909 1148 965"><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="239 987 335 1012"><b>Solution</b></p> <p data-bbox="239 1034 739 1058">Remove the entire server and then add it again.</p> <p data-bbox="239 1081 1225 1137">NOTE: To avoid the problem in the future—Before removing the http listener, disable security using the following command:</p> <pre data-bbox="239 1159 1199 1321"> /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="239 1341 1005 1366"><b>On Microsoft Windows 2000, corrupt messages display on the console.</b></p> <p data-bbox="239 1388 1142 1444">On Windows 2000, for a non-English locale (such as Japanese) you may see corrupted messages displayed on the console.</p> <p data-bbox="239 1466 335 1491"><b>Solution</b></p> <p data-bbox="239 1513 771 1538">Use the Admin interface to view the log messages.</p>

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ID	Summary
4739831	<p data-bbox="315 239 1210 263"><b>A partially-deleted instance causes incorrect responses from some CLI commands.</b></p> <p data-bbox="315 284 1308 343">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="315 361 1285 420" style="list-style-type: none"><li data-bbox="315 361 1285 420">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="315 437 415 461"><b>Solution</b></p> <p data-bbox="315 482 1308 506">Manually remove the leftover instance directory, then run the <code>create-instance</code> command.</p> <ol data-bbox="315 524 1273 583" style="list-style-type: none"><li data-bbox="315 524 1273 583">2. The <code>list-instances</code> command in local mode includes the partially-deleted instance name and status.</li></ol> <p data-bbox="315 600 415 624"><b>Solution</b></p> <p data-bbox="315 645 1296 670">Manually remove the leftover instance directory, then run the <code>list-instances</code> command.</p> <ol data-bbox="315 687 1308 746" style="list-style-type: none"><li data-bbox="315 687 1308 746">3. On Microsoft Windows 2000, the <code>start-instance</code> command in remote mode displays a null string.</li></ol> <p data-bbox="315 763 415 788"><b>Solution</b></p> <p data-bbox="315 808 1208 868">Manually remove the leftover instance directory, create a new instance, then run the <code>start-instance</code> command.</p> <ol data-bbox="315 885 1308 1003" style="list-style-type: none"><li data-bbox="315 885 1308 1003">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="315 1020 1268 1107">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="315 1124 415 1149"><b>Solution</b></p> <p data-bbox="315 1170 833 1194">Manually remove the leftover instance directory.</p>
4739891	<p data-bbox="315 1216 1308 1275"><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="315 1293 415 1317"><b>Solution</b></p> <p data-bbox="315 1338 1296 1397">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="239 241 1126 265"><b>SNMP: END OF MIB is returned when adding and starting a new instance server.</b></p> <p data-bbox="239 288 1219 343">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="239 362 334 387"><b>Solution</b></p> <ol data-bbox="239 409 1219 626" style="list-style-type: none"><li data-bbox="239 409 1219 522">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="239 543 1219 626">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="239 645 1186 701"><b>License expired message does not appear at Microsoft Windows Services or at the DOS prompt.</b></p> <p data-bbox="239 723 1219 803">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="239 826 968 852"><b>Solution</b> Start servers from CLI (<code>asadmin</code>) or from Sun program icon</p>
4780488	<p data-bbox="239 916 1219 1090">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="239 1112 1219 1255">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="239 1277 1219 1357">For example, if you modified the file named <code>obj.conf</code> while configuring the Sun ONE Application Server passthrough plug-in, your passthrough settings will not take effect because the wrong <code>obj.conf</code> file has been modified.</p> <p data-bbox="239 1380 334 1404"><b>Solution</b></p> <p data-bbox="239 1426 1219 1482">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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## 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="318 678 1282 734"><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="318 753 1282 808">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="318 828 415 852"><b>Solution</b></p> <p data-bbox="318 871 853 899">Use the <code>.types</code> extension for any mime file name.</p>

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ID	Summary
4725473	<p data-bbox="239 239 1253 296"><b>External certificate nickname doesn't display on the Administration interface Nickname list.</b></p> <p data-bbox="239 314 1253 461">When you install an external certificate through the Sun ONE Application Server Administration interface, a problem is encountered when you attempt to enable SSL for the http-listener by using the certificate that is installed on the external cryptographic module. Although the installation of the certificate is successful, the certificate nickname does not display in the Administration interface.</p> <p data-bbox="239 479 334 505"><b>Solution</b></p> <ol data-bbox="239 522 1253 687" style="list-style-type: none"><li data-bbox="239 522 1253 579">1. Log in to the system where the Sun ONE Application Server software is installed as an Administrative User.</li><li data-bbox="239 597 1253 687">2. Link the http-listener to the certificate installed on the external cryptographic module. Execute the <code>asadmin</code> command. For more information on the <code>asadmin</code> command, see the <code>asadmin(1M)</code> man page.</li></ol> <pre data-bbox="239 704 825 999">/sun/appserver7/bin/asadmin create-ssl --user admin --password <i>password</i> --host <i>host_name</i> --port 8888 --type http-listener --certname nobody@prealm:Server-Cert --instance server1 --ssl3enabled=true --ssl3tlsciphers +rsa_rc4_128_md5 http-listener-1</pre> <p data-bbox="239 1017 1253 1104">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 http-listener, the http-listener will be listening in non-SSL mode.</p> <ol data-bbox="239 1121 1253 1147" style="list-style-type: none"><li data-bbox="239 1121 1253 1147">3. Enable the http-listener to listen in SSL mode by using the following CLI command.</li></ol> <pre data-bbox="239 1164 1110 1338">/sun/appserver7/bin/asadmin set --user admin --password <i>password</i> --host <i>host_name</i> --port 8888 server1.http-listener.http-listener-1.securityEnabled=true</pre> <p data-bbox="239 1355 1076 1381">This command switches the server instance listening state from non-SSL to SSL.</p> <p data-bbox="239 1399 1253 1459">After completing the preceding steps, the certificate is displayed in the Administration interface.</p> <ol data-bbox="239 1477 1253 1503" style="list-style-type: none"><li data-bbox="239 1477 1253 1503">4. You can now use the Administration interface to edit the http-listener as needed.</li></ol>

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ID	Summary
4728718	<p data-bbox="315 239 1305 296"><b>When creating a new virtual server and a value is given for the location of the log file, a "File Not Found" error is reported.</b></p> <p data-bbox="315 314 1186 338">In the Administration interface, the log file field cannot be used to add any values.</p> <p data-bbox="315 361 415 385"><b>Solution</b></p> <p data-bbox="315 407 1276 432">Delete the virtual server just created, create the needed file, then recreate the virtual server.</p> <p data-bbox="315 454 1305 505">NOTE: To avoid the problem in the future—Always create the log file first, before attempting to create the new virtual server.</p>
4741123	<p data-bbox="315 527 1305 552"><b>On Solaris 9 update 2, default browser is incompatible with Sun ONE Application Server 7.</b></p> <p data-bbox="315 574 1293 656">When you attempt to use the Sun ONE Application Server Administrative interface with the Solaris 9 4/03 operating environment default browser, the following error message is displayed:</p> <p data-bbox="315 678 815 703">Unsupported Browser: Netscape 4.78.</p> <p data-bbox="315 725 1300 835">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 may notice degraded performance and/or unexpected behavior.</p> <p data-bbox="315 857 1272 939">NOTE: If you are running the version of the Sun ONE Application Server Administrative interface that is included in the Solaris 9 4/03 operating environment, you will need to use Netscape 4.79 or Netscape 7.0.</p> <p data-bbox="315 961 415 986"><b>Solution</b></p> <ul data-bbox="315 1008 1268 1164" style="list-style-type: none"><li data-bbox="315 1008 1268 1060">• For Sun ONE Application Server 7 standalone, upgrade to Netscape 4.79 or Netscape 6.2— Use <code>/usr/dt/bin/netscape6</code> instead of <code>/usr/dt/bin/netscape</code>.</li><li data-bbox="315 1083 1268 1164">• For Sun ONE Application Server 7 bundled with Solaris, upgrade to Netscape 4.79 or Netscape 7—Use <code>/usr/dt/appconfig/SUNWns/netscape</code> instead of <code>/usr/dt/bin/netscape</code>.</li></ul>
4750616	<p data-bbox="315 1187 1196 1239"><b>Access Control List (ACL) editing is not supported on some versions of Netscape Navigator.</b></p> <p data-bbox="315 1262 1305 1343">If you attempt to edit ACL entries while using either Netscape Navigator, versions 6.x or 7.x, you might encounter intermittent problems, such as the browser disappearing or the ACL edit screen never displays.</p> <p data-bbox="315 1366 415 1390"><b>Solution</b></p> <p data-bbox="315 1413 768 1437">Choose one of the following workarounds.</p> <ul data-bbox="315 1459 1305 1558" style="list-style-type: none"><li data-bbox="315 1459 933 1484">• Use the supported 4.79 version of Netscape Navigator.</li><li data-bbox="315 1506 1305 1558">• Manually edit the ACL file. For details on ACL file formatting, see the <i>Sun ONE Application Server Administrator's Guide</i>.</li></ul>

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ID	Summary
4752055	<p data-bbox="239 239 989 265"><b>Netscape 4.8 produces warning message on Administration interface.</b></p> <p data-bbox="239 282 1225 404">When using Netscape 4.8 to access the Administration interface, a warning appears indicating Netscape 4.8 is an unsupported browser. Although no issues have been identified when using Netscape 4.8 to run the Administration interface, more thorough testing needs to be completed on this version of the Netscape browser.</p> <p data-bbox="239 421 335 447"><b>Solution</b></p> <p data-bbox="239 465 1068 526">Select the Continue hyperlink from the warning message to continue using the Administration interface.</p> <p data-bbox="239 543 732 569">Use Netscape 4.79, or upgrade to Netscape 6.2.</p>
4760714	<p data-bbox="239 586 932 612"><b>An invalid Help button appears in the Install Certificate screen.</b></p> <p data-bbox="239 630 1225 751">In the Install Certificate screen, which displays all the certificate information entered, an invalid Help button is present in the Administration interface. If you click this button, an error message is displayed indicating the help page was not found. Context-sensitive help is only available by clicking the Help link on the top frame of any page.</p> <p data-bbox="239 769 335 795"><b>Solution</b></p> <p data-bbox="239 812 882 838">Click the Help link in the top pane for context-sensitive help.</p>
4760939	<p data-bbox="239 855 1160 916"><b>SSL: A self-signed certificate generated by certutil is not displayed on the Certificate Nickname list.</b></p> <p data-bbox="239 933 1225 994">A self-signed certificate is generated by the certutil and Certificate Nickname is not displayed on the Administration interface.</p> <p data-bbox="239 1012 335 1038"><b>Solution</b></p> <p data-bbox="239 1055 1053 1081">To use a self-signed certificate, you must manually edit the <code>server.xml</code> file.</p>
4848146	<p data-bbox="239 1098 1175 1124"><b>Error occurs accessing the Administration interface if the browser uses a proxy server.</b></p> <p data-bbox="239 1142 1225 1203">If your browser is set to use a proxy server and the proxy server is not configured to ignore localhost, an error occurs when you choose Start Admin Console from the Start menu.</p> <p data-bbox="239 1220 335 1246"><b>Solution</b></p> <p data-bbox="239 1263 504 1289">Disable the proxy server.</p> <p data-bbox="239 1307 275 1333">OR</p> <p data-bbox="239 1350 1025 1376">Include localhost in the list of domains to be ignored by their proxy server.</p>

## 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 data-bbox="318 418 1250 442"><b>Error occurs when spaces are specified in directories to be used by Sun ONE Studio 4.</b></p> <p data-bbox="318 465 1279 519">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 data-bbox="318 539 415 564"><b>Solution</b></p> <p data-bbox="318 586 1305 638">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 data-bbox="318 661 1219 685"><b>ConnectionException was thrown while establishing a connection to the debugger.</b></p> <p data-bbox="318 708 1305 762">Sun ONE Studio 4 prompts many times asking if you want to create a new debugging session and then throws the exception.</p> <p data-bbox="318 782 415 807"><b>Solution</b></p> <p data-bbox="318 829 484 854">Restart the IDE.</p>
4727932	<p data-bbox="318 869 879 894"><b>Using MAD environment in FFJ causes side effects.</b></p> <p data-bbox="318 916 1245 940">Intermittent side effects occur when using MAD configurations with Sun ONE Studio 4.</p> <p data-bbox="318 961 415 986"><b>Solution</b></p> <p data-bbox="318 1008 903 1032">Don't use Sun ONE Studio 4 with MAD configurations.</p>
4733794	<p data-bbox="318 1055 1026 1079"><b>ejb-name changes applied at Application node are undeployable.</b></p> <p data-bbox="318 1102 1305 1241">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="318 1262 415 1286"><b>Solution</b></p> <p data-bbox="318 1308 382 1333">None.</p>

ID	Summary
4745283	<p data-bbox="239 239 892 269"><b>If only Admin Client is installed, App Client cannot be run.</b></p> <p data-bbox="239 286 1255 343">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="239 361 335 390"><b>Solution</b></p> <p data-bbox="239 407 1255 494">Install the App Client package. It can be 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="239 512 542 541">To get <code>appclient</code> package:</p> <ol data-bbox="239 558 1021 588" style="list-style-type: none"> <li>1. Run <code>SUNONE_INSTALL_ROOT/bin/package-appclient[.bat]</code></li> </ol> <p data-bbox="239 605 935 663">This generates <code>appclient.jar</code> file in <code>SUNONE_INSTALL_ROOT/lib/appclient/appclient.jar</code></p> <ol data-bbox="239 680 1255 916" 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="239 933 1092 1079"> %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 1097 1255 1183">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 1201 792 1230">For details, see the <code>package-appclient</code> manpage.</p>
4725779	<p data-bbox="239 1246 1078 1275"><b>Pre-configured Sun ONE specific property values do not appear in the editor.</b></p> <p data-bbox="239 1293 1255 1380">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="239 1397 335 1426"><b>Solution</b></p> <p data-bbox="239 1444 1255 1501">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>s1as</code> descriptors.</p> <p data-bbox="239 1519 1255 1576">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>

ID	Summary
4733794	<p><b>EJB name changes applied at Application node are undeployable.</b></p> <p>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><b>Solution</b></p> <p>None.</p>

## Sample Applications

- The sample applications source is set up with an ANT directory structure and applications are not Sun ONE 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 ONE 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 ONE Studio (ANT through Sun ONE Studio).

This section describes known Sun ONE Application Server 7, Update 1 sample application issues, and the associated solutions.

ID	Summary
4714439	<p><b>In PetStore, cannot add a user that already exists.</b></p> <p>In the PetStore sample application, trying to add a user that already exists displays a stack trace on the screen.</p> <p><b>Solution</b></p> <p>None.</p>

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ID	Summary
4726161	<p data-bbox="239 239 835 269"><b>Modified samples are not updated until redeployment.</b></p> <p data-bbox="239 286 1125 343">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> <pre data-bbox="311 361 564 390">"Already Deployed"</pre> <p data-bbox="239 407 1220 494">This issue affects most of the samples since they use the Ant utility and the <code>common.xml</code> file, which have the "deploy" target, thus mixing deployment of applications with registration of resources.</p> <p data-bbox="239 512 335 541"><b>Solution</b></p> <p data-bbox="239 558 692 588">Choose one of the following workarounds:</p> <p data-bbox="239 605 1196 663">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> <pre data-bbox="239 680 539 710">% asant deploy_common</pre> <p data-bbox="239 727 916 756">For all other sample applications, type the following commands.</p> <pre data-bbox="239 774 468 831">% asant undeploy % asant deploy</pre>
4733412	<p data-bbox="239 841 992 871"><b>Sample application converter has redundant JAR file in web module.</b></p> <p data-bbox="239 888 1173 975">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> <pre data-bbox="239 992 1225 1050">/usr/appserver/samples/ejb/stateless/converter/stateless-converter.ea r</pre> <p data-bbox="239 1067 1192 1183">Extract this file and go to the <code>WEB-INF/lib</code> directory of the web module named <code>stateless-converter</code> and you will see the file. This redundant JAR file applies to all the web modules which call the EJB module. The root cause of the problem is the <code>common.xml</code> file used to build the application.</p> <p data-bbox="239 1201 335 1230"><b>Solution</b></p> <p data-bbox="239 1248 959 1277">None. Doesn't affect functionality when running sample application.</p>

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ID	Summary
4739854	<p data-bbox="315 239 968 267"><b>Instructions needed for deploying resources using asadmin.</b></p> <p data-bbox="315 286 1286 369">In the documentation for some samples, you are instructed to deploy the application using the <code>asadmin</code> command, but no explanation is provided on how to create the needed resources.</p> <p data-bbox="315 390 415 418"><b>Solution</b></p> <p data-bbox="315 437 1305 522">You can deploy the application/resource by using the <code>asadmin</code> command and can get more information by referring to the sample's <code>build.xml</code> file. More information can also be found in the printout from running <code>asant deploy</code>.</p> <p data-bbox="315 541 1305 626">For JDBC/BLOB example, the following steps create the resources using <code>asadmin</code> (assuming the hostname is <code>jackiel2</code> and the username/password/port for the Admin Server is <code>admin/adminadmin/4848</code>):</p> <pre data-bbox="315 645 1305 925">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=j dbc:pointbase:server://localhost/sun-appserv-samples</pre>
4747534	<p data-bbox="315 947 1296 975"><b>The lifecycle-multithreaded sample application asks for the admin user password 8 times.</b></p> <p data-bbox="315 994 1296 1046">While deploying the sample application <code>lifecycle-multithreaded.jar</code> file using the <code>asant deploy</code> command, you are prompted to enter the admin user password eight times.</p> <p data-bbox="315 1065 415 1093"><b>Solution</b></p> <p data-bbox="315 1112 382 1140">None.</p>

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ID	Summary
4748535	<p data-bbox="239 239 602 270"><b>Miscellaneous sample file issues.</b></p> <ol data-bbox="239 284 1125 406" style="list-style-type: none"><li data-bbox="239 284 1058 315">1. Logging sample generates multiple log files, for the fourth logging option.</li><li data-bbox="239 329 876 361">2. Logging sample has a redundant <code>log.properties</code> file.</li><li data-bbox="239 374 1125 406">3. Instructions for the security grant in sample documentation are not fully correct.</li></ol> <p data-bbox="239 420 334 451"><b>Solution</b></p> <ol data-bbox="239 465 953 524" style="list-style-type: none"><li data-bbox="239 465 953 524">1. Close the handler before removing it. See <code>initLog()</code> method in <code>GreeterServlet.java</code>.</li></ol> <pre data-bbox="239 541 796 805">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="239 822 982 881">Also, open file handler with an append option. See <code>addHandler()</code> in <code>GreeterServlet.java</code>. Write:</p> <pre data-bbox="239 899 882 930">Handler fh = new FileHandler(log_file, true);</pre> <p data-bbox="239 944 345 975">instead of</p> <pre data-bbox="239 992 796 1024">Handler fh = new FileHandler(log_file);</pre> <ol data-bbox="239 1038 1139 1260" style="list-style-type: none"><li data-bbox="239 1038 1139 1183">2. Edit the <code>build.xml</code> file as follows:<pre data-bbox="239 1083 1096 1183">&lt; fileset dir="\${src.docroot}" excludes="cvs,annontation"/&gt; &gt; &lt;fileset dir="\${src.docroot}" excludes="cvs,annontation,log.properties"/&gt;</pre></li><li data-bbox="239 1201 1139 1260">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>

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ID	Summary
4752731	<p><b>PointBase 4.3 replaced with PointBase 4.4.</b></p> <p>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><b>Solution</b></p> <p>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>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><b>The address attribute in the <code>iiop-listener</code> element in the <code>server.xml</code> file does not support ANY.</b></p> <p>In the default configuration, the Sun ONE Application Server is configured with the address value of <code>0.0.0.0</code> 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>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><b>Solution</b></p> <p>For both IPv4 and IPv6 interfaces, use <code>:::</code> in the address value of the <code>iiop-listener</code> element. This solution is only applicable to Solaris 8.0 and above.</p>

ID	Summary
4743419	<p data-bbox="239 239 1225 298"><b>RMI-IIOP clients will not work for IPv6 addresses where DNS address lookups fail for the IPv6 address.</b></p> <p data-bbox="239 315 1163 374">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="239 392 335 416"><b>Solution</b></p> <p data-bbox="239 434 1206 489">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="239 513 1225 572"><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="239 590 1225 677">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 may experience a significant decrease in performance when using the JDK-bundled or Sun ONE Application Server-bundled ORB.</p> <p data-bbox="239 694 1192 753">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="239 770 335 795"><b>Solution</b></p> <p data-bbox="239 812 1225 899">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="239 916 1225 980">&lt;jvm-options&gt;-Djavax.rmi.CORBA.UtilClass=com.ipplanet.ias.util.orbutil.IasUtilDelegate&lt;/jvm-options&gt;</pre>

## Internationalization (i18n)

This section describes known internalization issues and the associated solutions.

ID	Summary
4757859	<p data-bbox="239 1260 925 1284"><b>Multi-byte messages on the console are displayed as corrupted.</b></p> <p data-bbox="239 1302 1178 1361">If the default encoding for the system is not UTF-8, Sun ONE Application Server output might cause multi-byte characters to display incorrectly.</p> <p data-bbox="239 1378 335 1402"><b>Solution</b></p> <p data-bbox="239 1420 706 1444">Open the <code>server.log</code> file in your browser.</p>

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ID	Summary
4761017	<p data-bbox="315 239 1122 263"><b>On Solaris bundled version: Administration interface displays in English.</b></p> <p data-bbox="315 288 1300 371">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="315 395 415 420"><b>Solution</b></p> <p data-bbox="315 444 876 468">Manually set the locale entry in the <code>server.xml</code> file</p>
4783129	<p data-bbox="315 482 1105 506"><b>On Microsoft Windows: English about.html is displayed in the ja locale.</b></p> <p data-bbox="315 531 1272 586">When the browser is launched in a ja locale, the <code>about.html</code> page is displayed in English instead of Japanese.</p> <p data-bbox="315 611 415 635"><b>Solution</b></p> <p data-bbox="315 659 611 683">Change the URL as follows:</p> <p data-bbox="315 708 382 732">From:</p> <p data-bbox="315 756 491 781"><code>../about.html</code></p> <p data-bbox="315 805 354 829">To:</p> <p data-bbox="315 854 534 878"><code>../ja/about.html</code></p>
4840621	<p data-bbox="315 878 1243 933"><b>Archive does not work when Sun ONE Application Server is running in non-English locale.</b></p> <p data-bbox="315 958 1300 1013">When Sun ONE Application Server is running in a non-English locale, the Archive button in the following location does not archive log files:</p> <p data-bbox="315 1038 1248 1062">App Server Instance -&gt; Logging -&gt; Log rotation window -&gt; scheduler based log rotation</p> <p data-bbox="315 1086 415 1111"><b>Solution</b></p> <ol data-bbox="315 1135 1248 1334" style="list-style-type: none"><li data-bbox="315 1135 1248 1159">1. Go to the following directory: <code>\$install_dir/domains/domain1/server1/bin</code></li><li data-bbox="315 1166 648 1190">2. Open the <code>rotatelogs</code> file.</li><li data-bbox="315 1197 976 1236">3. Uncomment the following line: <code>#LANG=C; export LANG</code></li><li data-bbox="315 1260 933 1284">4. Add the following line: <code>LC_ALL=C; export LC_ALL</code></li><li data-bbox="315 1308 571 1333">5. Click Archive again.</li></ol>

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ID	Summary
N/A	<p data-bbox="239 239 1053 265"><b>On Solaris, there are limitations associated with the Netscape 4.79 browser.</b></p> <ul data-bbox="239 286 1206 416" style="list-style-type: none"> <li data-bbox="239 286 1163 338">• When using Netscape 4.79 on Solaris, localized JavaScript messages display garbled characters. JavaScript cannot handle UTF-8 encoding.</li> <li data-bbox="239 355 1206 416">• When using Netscape 4.79 on Solaris in the Chinese GB18030 locale, GB18030 characters are not accepted.</li> </ul> <p data-bbox="239 434 335 460"><b>Solution</b></p> <p data-bbox="239 477 1192 512">On the Sun web site, download Netscape 6.23 or 7.0 for Solaris. This solves both problems.</p>

## Solaris x86 Platform (Solaris Bundled and Java Enterprise System Only)

This section describes the known issues and limitations with the Solaris x86 version of the Sun ONE Application Server, available bundled with Solaris and with Java Enterprise System.

ID	Summary
N/A	<p data-bbox="239 878 492 904"><b>Solaris X86 Limitations</b></p> <p data-bbox="239 921 1149 1008"><b>No Sun ONE Studio Plug-in.</b> The Sun ONE Studio Plug-in is not part of the Sun ONE Application Server release on the Solaris x86 platform because Sun ONE Studio is not available on the Solaris X86 platform.</p> <p data-bbox="239 1025 1225 1112"><b>The web server plug-in.</b> The web server plug-in (sometimes called the reverse proxy plug-in) is supported only with Apache Web Server, not with Sun ONE Web Server, because the Sun ONE Web Server is not available on the Solaris X86 platform.</p> <p data-bbox="239 1130 1225 1190"><b>Solaris support.</b> The Solaris X86 release is only supported on Solaris 9, Update 2 onward, not on any earlier version of Solaris.</p> <p data-bbox="239 1208 1156 1239"><b>Evaluation installation.</b> There is no evaluation installation for the Solaris x86 platform.</p>

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ID	Summary
4890285	<p data-bbox="315 239 729 263"><b>Documentation issues for Solaris x86.</b></p> <p data-bbox="315 286 1305 371"><b>Solaris x86 may not be listed as a supported platform.</b> In documents that list supported platforms for Sun ONE Application Server, the Solaris x86 platform may not be included. For the latest platform information, see the <i>Platform Summary</i>.</p> <p data-bbox="315 394 1305 444"><b>References to SPARC.</b> The <i>Developer's Guide to NSAPI</i> includes references to Solaris SPARC, which should be references to Solaris (Solaris includes SPARC and X86).</p> <p data-bbox="315 466 1305 552"><b>References to evaluation installation.</b> The <i>Installation Guide</i> and <i>Getting Started Guide</i> describe an evaluation (express) installation available with the installation program. This installation option is not available for the Sun ONE Application Server on the Solaris x86 platform.</p> <p data-bbox="315 574 1305 624"><b>Sun ONE Studio Plug-in.</b> The documentation contains references to the Sun ONE Studio plug-in, which is unavailable on Solaris x86.</p> <p data-bbox="315 647 1305 697"><b>Web server plug-in unavailable for use with Sun ONE Web Server.</b> The documentation contains references to using the web server plug-in with the Sun ONE Application Server.</p>

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## Documentation

This section describes the known documentation issues and associated solutions.

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ID	Summary
4720171	<p data-bbox="239 265 1122 288"><b>There is no documentation explaining the use of indexed deployment directories.</b></p> <p data-bbox="239 314 1249 487">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="239 508 1249 638" style="list-style-type: none"><li data-bbox="239 508 1249 591">• 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="239 609 1249 638">• Update the JAR file, create a new EAR file, and redeploy the application.</li></ul> <p data-bbox="239 657 1249 713">NOTE: Redeployment of the application on the Solaris platform is not necessary since there are no file locking constraints.</p> <p data-bbox="239 732 344 755"><b>Solution</b></p> <p data-bbox="239 779 1249 925">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="239 944 1249 966">appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_1</pre> <p data-bbox="239 991 1249 1164">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 ONE 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="239 1183 1249 1239">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="239 1260 1249 1390" style="list-style-type: none"><li data-bbox="239 1260 1249 1315">• 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="239 1334 1249 1390">• Make the changes to the helloworld source, assemble it, and redeploy it without undeploying the previous deployment of helloworld.</li></ul>

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ID	Summary
4720171 <i>Continued</i>	<p>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 look like the following:</p>
	<pre>appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_1 appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_2</pre>
	<p>The second deployment of helloworld would be deployed under helloworld_2.</p>
4717815	<p><b>Integration requirements for Sun ONE Studio 4 and Application Server 7 needed.</b></p> <p>Information on integrating Sun ONE Studio 4 and Application Server is difficult to find. Need to provide full instructions and clear pathways to relevant documentation.</p>
	<p><b>Solution</b></p>
	<p>Refer to <a href="#">“Sun ONE Studio 4 Documentation” on page 5</a> for pointers to Sun ONE Studio 4 documentation. Additional information can be found in the <i>Application Server Getting Started Guide</i> and <i>Administrator's Guide</i>.</p>
4837479	<p><b>No documentation available on accessing JMS destinations from a non-ACC client.</b></p> <p>The information on how to access JMS destinations from a non-ACC client will be added to the <i>Application Server Developer's Guide to Clients</i> in the next release of Sun ONE Application Server 7.</p>
4849663	<p><b>Documentation wrongly indicates non-ACC client uses a string instead of JNDI.</b></p> <p>In the “Using the Application Client Container” chapter of the <i>Application Server Developer's Guide to Clients</i>, the non-ACC client wrongly uses a string instead of JNDI to obtain the initial naming context.</p>
	<p><b>Solution</b></p>
	<p>Use the JNDI lookup to obtain the naming initial context:</p>
	<pre>env.put (Context . INITIAL_CONTEXT_FACTORY , "com.sun.jndi.cosnaming.CNCTXFactory" ); env.put (Context . PROVIDER_URL , url );</pre>
4855015	<p><b>Incorrect default is stated for DNS description.</b></p> <p>In the “Syntax and Use of init.conf” chapter of the <i>Application Server Administrator's Configuration File Reference</i>, the DNS description default is incorrectly stated as on. The correct default is off.</p>

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ID	Summary
N/A	<p data-bbox="239 239 761 265"><b>Getting Started Guide lists wrong SDK version.</b></p> <p data-bbox="239 282 1220 369">In the <i>Application Server Getting Started Guide</i> for Update 1, Java 2 Software Development Kit, Standard Edition 1.4.0_02 is listed as supported. The supported version for Update 1 is 1.4.1_01</p> <p data-bbox="239 387 337 413"><b>Solution</b></p> <p data-bbox="239 430 304 456">None.</p>

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## How to Report Problems

If you have problems with your system, contact customer support using one of the following mechanisms:

- The online support web site at:  
<http://www.sun.com/supporttraining/>
- The telephone dispatch number associated with your maintenance contract

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

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

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## For More Information

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

- Sun ONE products and services information

<http://www.sun.com/service/sunps/sunone/index.html>

- Sun ONE developer information

[http://www.sun.com/software/product\\_categories/application\\_development.html](http://www.sun.com/software/product_categories/application_development.html)

- Sun ONE learning solutions

<http://www.sun.com/supporttraining/index.html>

- Sun ONE product data sheets

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

- Sun Microsystems product documentation:

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

- Sun ONE Application Server product documentation:

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

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## 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.

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<b>Revision Date</b>	<b>Description of Change</b>
April 2003	Initial release of Sun ONE Application Server 7, Update 1.
October 2003	Updated to include information on the Solaris x86 platform release for bundled Solaris and Java Enterprise System.

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