

Sun™ ONE Application Server 7 Release Notes

Version 7, Update 2

Part Number 817-3649-10

January 2004

These release notes contain important information available at the time of the Update 2 release of the Sun™ Open Net Environment (ONE) Application Server, Version 7 product. 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 2 product.

This document contains the following sections:

- What's New in the Sun ONE Application Server 7 Product
- Platform Summary
- Documentation
- Accessibility
- Requirements and Limitations
- Upgrade Notes
- Resolved Issues
- Known Problems and Limitations
- How to Report Problems
- For More Information
- Revision History

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

Information on what's new in the Sun ONE Application Server 7, Update 2 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>

Platform Summary

Information on the supported platform for the Sun ONE Application Server 7, Update 2 product can be found in the *Sun ONE Application Server Platform Summary* document at this location:

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

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 2 product includes an entire set of documentation. The Sun ONE Application Server 7 documents that were updated in Update 2 have new part numbers and are indicated in the following list as **REVISED**. Documents that were not changed between Update 1 and Update 2 are identical for the two releases and have the same part numbers.

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

The Sun ONE Application Server 7, Update 2 documents can be found at this location:

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

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

- *Product Overview*—(PN 817-2166-10) Describes Sun ONE Application Server 7, including the features available with each edition of the product.
- *Server Architecture*—(PN 817-2167-10) Presents diagrams and descriptions of server architecture; discusses benefits of the Sun ONE Application Server architectural approach.
- *What's New*—(PN 817-2165-10) Lists the new enterprise, developer, and operational features of Sun ONE Application Server 7.
- *Platform Summary* **REVISED**—(PN 817-3650-10) Provides a comprehensive, table-based summary of supported operating systems, JDBC drivers and databases, web servers, directory servers, browsers, and associated software packages.
- *Getting Started Guide*—(PN 817-2170-10) Describes how to get started with the Sun ONE Application Server 7 product. Focuses on initial developer exposure; is also suited for users evaluating the product.
- *Installation Guide* **REVISED**—(PN 817-3651-10) 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 Features and Services*—(PN 817-2177-10) Describes J2EE features such as Java Database Connectivity (JDBC), Java Naming and Directory Interface (JNDI), Java Transaction Service (JTS), Java Message Service (JMS), and JavaMail.
- *Developer's Guide to NSAPI*—(PN 817-2177-10) Describes how to create NSAPI plug-ins.
- *Developer's Guide to Web Services*—(PN 817-2174-10) Describes how to develop and deploy web services in the Sun ONE Application Server environment.
- *Developer's Guide to Clients*—(PN 817-2173-10) Describes how to develop and deploy Application Client Container (ACC) clients that access J2EE applications on Sun ONE Application Server 7.
- *Administrator's Guide REVISED*—(PN 817-3652-10) The centerpiece of the administrator's collection, this document provides information and instructions on the configuration, management, and deployment of the Sun ONE Application Server subsystems and components, from both the Administration interface and the command-line interface. A comprehensive Sun ONE Application Server glossary is included.
- *Administrator's Configuration File Reference*—(PN 817-2178-10) Describes the contents of the Sun ONE Application Server configuration files, such as the `server.xml` file.
- *Administrator's Guide to Security*—(PN 817-2179-10) Describes how to configure and administer security for the Sun ONE Application Server operational environment. Includes information on general security, certificates, and SSL/TLS encryption. HTTP server-based security is also addressed.

- *J2EE CA SPI Administrator's Guide*—(PN 817-2254-10) Describes how to configure and administer JCA SPI Implementation features for the Sun ONE Application Server environment. Topics include the Administration Tool, Pooling Monitor, deploying a JCA connector, and sample connectors and sample applications.
- *Performance Tuning Guide*—(PN 817-2180-10) Describes how and why to tune your Sun ONE Application Server to improve performance.
- *Error Messages Reference*—(PN 817-2182-10) Describes all Sun ONE Application Server error messages.
- Manpages for Command-line Interface—Provides XML pages written in manpage style for all command-line interface commands.
- Manpages for Utilities—Provides XML pages written in manpage style for all Sun ONE Application Server utility commands.
- Admin interface online help—Provides content-specific online help for the Sun ONE Application Server graphical Administration interface.
- 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/sl.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 might be of help can be found here:
<http://forte.sun.com/ffj/documentation/index.html>

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

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.

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.

Requirements and Limitations

Information on the platform requirements for the Sun ONE Application Server 7, Update 2 product can be found in the *Sun ONE Application Server Platform Summary* document at this location:

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

The following topics are addressed in this section:

- Platform Requirements
- Solaris Patches
- Solaris x86 Limitations

Platform Requirements

The following table summarizes the Sun ONE Application Server 7, Update 2 requirements.

Table 1 Platform Requirements for Sun ONE Application Server

Operating System	Architecture	Minimum Memory	Recommended Memory	Minimum Disk Space	Recommended Disk Space
UNIX					
Sun Solaris 8 or 9 for SPARC	32 and 64 bit	256 MB without Sun ONE Studio	512 MB	250 MB free	500 MB free
Solaris x86, Version 9	32 bit	512 MB with Sun ONE Studio			
Red Hat Linux 7.2 or 7.3 Red Hat Enterprise Linux 2.1					
Microsoft Windows					
Windows 2000 Advanced Server, SP2 Windows 2000 Server, SP2 Windows 2000 Professional, SP2 Windows XP Professional	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, 108993-23, and 110934 (any revision, for package based installation only). Without these patches, which the installer checks for, you won't be able to install or run the Sun ONE Application Server software. These patches are already contained in the latest recommended patch cluster.

Solaris x86 Limitations

- Sun ONE Studio plug-in—The Sun ONE Studio Plug-in is not part of this release because Sun ONE Studio is not available on the Solaris x86 platform.
- Web server (reverse proxy) plug-in—The reverse proxy plug-in is supported only with Apache Web Server, not with Sun ONE Web Server, because a supported version of the Sun ONE Web Server is not available on the Solaris x86 platform.
- Solaris support—The Solaris x86 release is only supported on Solaris 9, Update 2 onward, not on any earlier version of Solaris.
- Evaluation installation—There is no evaluation installation for the Solaris x86 platform.

Upgrade Notes

If you are upgrading an existing version of Sun ONE Application Server 7 to Sun ONE Application Server 7, Update 2, select the upgrade archive on the download site. Full instructions for upgrading to Sun ONE Application Server, Update 2 product are contained in the *Sun ONE Application Server Installation Guide* at this location:

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

NOTE 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 2 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 2. Instructions are contained in the *Sun ONE Application Server Installation Guide*.

Resolved Issues

This section lists the customer-escalated issues resolved for the Sun ONE Application Server 7, Update 2 product.

ID	Summary
4761365 4894675	Web server (reverse proxy) plug-in doesn't work with SSL port numbers.
4777526	RMI compiler returns an error: {0
4797642	JDOQueryException occurs when comparing a database bit field to a boolean value of false.
4808573	Data corruption occurs when using EJBQL finder or select method with interface parameter.
4812839	Session invalidation occurs when doing request dispatching across a web application.
4817526	Container resources are unavailable outside a request thread.
4818753	RMIC fails at deployment.
4825735	User name containing @ symbol is not parsed properly during ILOP authentication.
4826647	The <code>asadmin</code> command doesn't allow some JVM settings with special string.
4826679	<code>javax.servlet.include.XXX</code> attributes are not set correctly for JSPs.
4827101	<code>query-params</code> must be defined for CMP1.1 finder even though it is optional.
4839736	<code>HttpSession.setMaxInactiveInterval</code> doesn't behave as expected.
4843119	Changing the <code>javax.rmi.CORBA.UtilClass</code> causes <code>rmi.MarshallExceptions</code> to occur.
4845954	RMI clients are not able to communicate with Sun ONE Application Server 7.

ID	Summary
4849638	The <code>capture-schema</code> utility doesn't always capture the schema reliably. NOTE: To prevent this problem from occurring, download <code>classes12.zip</code> from the Oracle website http://otn.oracle.com/software/tech/java/sqlj_jdbc/htdocs/jdbc817.html which also points to a patch for Bug-1725012 in Oracle 9i.
4852757	Not able to deploy the application. No clear error message in the Administration interface.
4876121	<code>wrappedResponse</code> object in filter is not used by the request dispatcher.
4882279	On Microsoft Windows, the Application Server instance fails to start after upgrading to Sun ONE Application Server 7, Update 1 when using if the java max heap size (<code>-mx vm</code> option) is set to 400 MB or higher.
4883580	Quoted values for HTTP headers are treated differently from Tomcat.
4918152	When parsing the request parameter, '%' is always treated as an escape sequence.

Known Problems and Limitations

This section describes known problems and associated workarounds for the Sun ONE Application Server 7, Update 2 product.

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

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
- The appclient Script
- Verifier
- Configuration
- Deployment Descriptors
- Monitoring
- Server Administration
- Sun ONE Studio 4 Plug-in
- Sample Applications
- ORB/IIOP Listener
- Internationalization (i18n)
- Documentation

Installation and Uninstallation

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

ID	Summary
4403166	<p data-bbox="239 267 1215 317">On Microsoft Windows, package/path/application names longer than 255 characters will fail to deploy applications.</p> <p data-bbox="239 336 1215 413">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="239 432 629 454" style="list-style-type: none"><li data-bbox="239 432 629 454">• Example of a long application name: <p data-bbox="239 473 1011 496">J2EE application name as <code>servlet_jsh_HttpServletRequestWrapper.ear</code></p> <ul data-bbox="239 515 608 538" style="list-style-type: none"><li data-bbox="239 515 608 538">• Example of a long package name: <p data-bbox="239 557 689 579">The servlet is located in the following package:</p> <pre data-bbox="239 598 1215 675">servlet_jsh_HttpServletRequestWrapper_1\servlet_jsh_HttpServletRequestWrapper_ servlet_war\WEB-INF\classes\tests\javax_servlet_http\HttpServletRequestWrapper HttpServletRequestWrapperConstructorTestServlet.class</pre> <ul data-bbox="239 692 568 715" style="list-style-type: none"><li data-bbox="239 692 568 715">• Example of a long path name: <p data-bbox="239 734 1079 756">Sun ONE Application Server is installed as drive <code>\:> Sun \ApplicationServer</code></p> <p data-bbox="239 775 325 798">Solution</p> <p data-bbox="239 817 551 840">Consider the following solutions:</p> <ol data-bbox="239 859 1215 1015" style="list-style-type: none"><li data-bbox="239 859 1215 909">1. Make a shorter directory structure during installation. For example, <code>drive:>App\</code> instead of the default <code>drive:>Sun\Apsserver7</code>.<li data-bbox="239 928 1215 979">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 data-bbox="239 998 925 1015">3. Have shorter package names, path names, and application names.
4687768	<p data-bbox="239 1034 1215 1085">On Solaris setup-SDK/JDK, an error occurs when installing in command-line mode on a machine without Xwindows.</p> <p data-bbox="239 1104 1215 1206">It is not possible to run the Sun ONE Application Server installer, even in command-line mode, on a hardened Solaris system which does not contain X Windows libraries. The installer will throw <code>java.lang.UnsatisfiedLinkError</code> while instantiating AWT objects used by SetupSDK/Webstart Wizard's installer framework.</p> <p data-bbox="239 1225 325 1248">Solution</p> <ol data-bbox="239 1267 1215 1385" style="list-style-type: none"><li data-bbox="239 1267 1215 1317">1. Install X Windows support packages temporarily, removing them after installing the Sun ONE Application Server product.<li data-bbox="239 1336 1215 1385">2. Install the Sun ONE Application Server packages using the <code>pkgadd</code> command and create the initial domain using <code>asadmin</code> commands.

ID	Summary
4719600	<p data-bbox="318 239 785 262">Warning messages occur during installation.</p> <p data-bbox="318 279 1042 302">During installation, some invalid error messages might occur. For example:</p> <pre data-bbox="318 322 1270 401">WARNING: Couldn't flush system prefs: java.util.prefs.BackingStoreException: Couldn't get file lock. WARNING: Could not lock System prefs.Unix error code -223460600.</pre> <p data-bbox="318 418 408 440">Solution</p> <p data-bbox="318 458 1239 508">Ignore these warnings or, alternatively, you can create a system preferences directory (typically <code>/etc/.java/.systemPrefs</code>). This is normally done by the JDK install script.</p>
4737663	<p data-bbox="318 529 1265 552">On Solaris, if you install both the package-based install and regular install, there is conflict.</p> <p data-bbox="318 569 1303 675">If you install both the package-based install (Solaris 9 bundled) and the mainstream installer version of the product, there are potential conflicts. The Sun ONE Message Queue broker for both of these installations will be shared, so if you don't uniquely name the domains and instances, you might see the following message when starting the second instance with the same domain/instance name:</p> <pre data-bbox="318 696 1022 744">SEVERE: JMS5024: JMS service startup failed. SEVERE: CORE5071: An error occurred during initialization</pre> <p data-bbox="318 762 1248 784">In particular, the default domain and instance names are the same for both of these installations.</p> <p data-bbox="318 802 408 824">Solution</p> <p data-bbox="318 841 1228 890">Follow the instructions in the "JMS Administration" chapter of the <i>Sun ONE Application Server Administrator's Guide</i>.</p>
4742038	<p data-bbox="318 911 1286 961">Sun ONE Application Server does not start if the install directory contains non alpha-numeric characters.</p> <p data-bbox="318 979 1303 1112">Sun ONE Application Server startup fails if the install directory contains characters such as #, spaces, or any other non alpha-numeric characters. In this case, the server log files are not created. The Sun ONE Application Server install directory can contain only the following characters: alphanumeric, - (dash) or _ (underscore). This also applies to entering existing Java 2 SDK directory during installation.</p> <p data-bbox="318 1130 408 1152">Solution</p> <p data-bbox="318 1170 1283 1220">During installation, specify a directory where names contain only alphanumeric, dash, or underscore characters.</p>
4742828	<p data-bbox="318 1241 825 1263">Silent installer is not checking user permissions.</p> <p data-bbox="318 1281 1303 1388">Although interactive installers (GUI or command-line) check for appropriate user permissions (admin user for Microsoft Windows platforms, and root user for Solaris package-based installation), this check is not done during silent installation. As a result, installation will fail later in the process because you will not have sufficient permissions to install packages (Solaris) or create services (Microsoft Windows).</p> <p data-bbox="318 1406 408 1428">Solution</p> <p data-bbox="318 1446 983 1468">Make sure that silent installation is being run as the appropriate user.</p>

ID	Summary
4741190	<p data-bbox="239 239 1176 291">For Solaris, Installer accepts JDK_LOCATION value even if the location contains an earlier version (earlier than Solaris 1.2).</p> <p data-bbox="239 309 1193 440">Sun ONE Application Server 7 requires a Java 2 SDK version greater than or equal to 1.4.0_02. However, on Solaris, if a user chooses to reuse an existing Java 2 SDK (less than version 1.2), the installer might not display a warning message. The installation might complete successfully, but the Sun ONE Application Server might not function properly. This is caused by having an existing JAVA_HOME in your environment.</p> <p data-bbox="239 458 325 477">Solution</p> <p data-bbox="239 499 925 522">Before starting the installation program, unset JAVA_HOME as follows:</p> <p data-bbox="239 539 522 562">(On ksh): <code>unset JAVA_HOME</code></p> <p data-bbox="239 569 562 591">(On csh): <code>unsetenv JAVA_HOME</code></p>
4742171	<p data-bbox="239 612 1222 664">Installing a development installation over an existing evaluation installation in silent mode does not report an error.</p> <p data-bbox="239 682 1222 756">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="239 774 325 793">Solution</p> <p data-bbox="239 815 1210 868">Uninstall existing evaluation installations before installing a new development installation in the same location.</p>
4742552	<p data-bbox="239 888 1222 968">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.</p> <p data-bbox="239 986 1222 1142">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 1159 325 1178">Solution</p> <p data-bbox="239 1201 1202 1281">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>

ID	Summary
N/A	<p data-bbox="315 239 1302 317">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.</p> <p data-bbox="315 335 1302 442">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="315 460 406 484">Solution</p> <p data-bbox="315 501 1258 550">To preserve the Sun ONE Message Queue installation after the Sun ONE Application Server is uninstalled:</p> <ol data-bbox="315 567 1250 703" style="list-style-type: none"><li data-bbox="315 567 943 591">1. Exit the installer when offered the automatic upgrade choice,.<li data-bbox="315 609 1250 657">2. Upgrade Sun ONE Message Queue to version 3.0.1 according to Sun ONE Message Queue documentation,.<li data-bbox="315 675 872 699">3. Run Sun ONE Application Server installation again.
4746410	<p data-bbox="315 720 1232 769">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.</p> <p data-bbox="315 786 1302 869">When attempting to install the Sun ONE Application Server on Solaris (using the package-based installer) in non-default locations, the installation program does not check for disk space in the specified target directory. Instead, it checks for disk space only in the default location (/opt).</p> <p data-bbox="315 887 406 911">Solution</p> <p data-bbox="315 928 1302 1008">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="315 1025 1302 1074">On Microsoft Windows XP, cannot incrementally install sample applications and PointBase 4.2 components.</p> <p data-bbox="315 1091 1302 1199">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 Application Server Not Found. Installation does not proceed.</p> <p data-bbox="315 1216 406 1241">Solution</p> <p data-bbox="315 1258 1302 1341">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>

ID	Summary
4748455	<p data-bbox="239 239 1146 357">Directory error occurs during generic silent install.</p> <p data-bbox="239 282 1146 357">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="239 378 889 440" style="list-style-type: none"><li data-bbox="239 378 596 399">• Selected directory is not writable.<li data-bbox="239 418 889 440">• Selected directory string is empty or contains space characters.
4749033	<p data-bbox="239 543 1210 591">On Microsoft Windows XP, cannot uninstall standalone admin client installation using uninstaller.</p> <p data-bbox="239 612 1210 687">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="239 708 325 727">Solution</p> <p data-bbox="239 748 1210 878">Check the supplied installation directory value for both issues to determine the cause of error.</p> <p data-bbox="239 748 1210 878">Uninstall a standalone admin client manually. Files located in the <code>install_dir</code> directory should be deleted. The related Program Group folder (Start->Programs->Sun Microsystems->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="239 904 1222 953">Samples documentation is not published to initial server instance if Sample Application component has been incrementally installed.</p> <p data-bbox="239 973 1222 1104">This issue affects the development and operations installer on all platforms. If sample applications are installed in a separate installation session over an installed Sun ONE Application Server, the sample documentation will not be published to the initial server instance and will not be accessible through the <code>http://hostname:port/samples</code> URL. However, documentation is installed on the file system and can be accessed locally at this location: <code>file:///install_root/samples/index.html</code></p> <p data-bbox="239 1124 325 1144">Solution</p> <p data-bbox="239 1164 618 1182">Access samples documentation locally.</p>

ID	Summary
4754256	<p data-bbox="318 239 1268 291">On Solaris, Sun ONE Message Queue configuration files are not preserved during Sun ONE Message Queue upgrade performed by the installer.</p> <p data-bbox="318 309 1282 413">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="318 435 732 482">/etc/imq/passwd /etc/imq/accesscontrol.properties</pre> <p data-bbox="318 499 1296 552">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="318 569 404 591">Solution</p> <p data-bbox="318 609 1268 683">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>

ID	Summary
4754824	<p data-bbox="237 239 1096 262">On Solaris, an installer error message occurs while running installation from a CD.</p> <p data-bbox="237 279 1223 470">When a volume is inserted into the CD-ROM drive, Solaris volume management assigns it the next symbolic name. For example, if two CD-ROMs match the default regular expression, they are named <code>cdrom0</code> and <code>cdrom</code>. Any that match the added regular expression would be named starting with <code>cdrom2</code>. This is documented on <code>vold.conf</code> man page. Every time you install the Sun ONE Application Server from the CD, the CD-ROM mount point appends a number after the label name. The first time the CD is mounted everything goes well. On subsequent mounts, the following error message occurs when the installer starts:</p> <pre data-bbox="237 487 1193 565">IOException:java.io.FileNotFoundException: /cdrom/appserver7 No such file or directory) while loading default flavormap.properties file URL:file:/cdrom/appserver7#4/AppServer7/pkg/jre/lib/flavormap.properties</pre> <p data-bbox="237 583 325 605">Solution</p> <p data-bbox="237 623 1108 645">Installer functionality is not affected in any way. However, the following workaround exists:</p> <ol data-bbox="237 663 1165 836" style="list-style-type: none"> 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 (#). 2. If the <code>/cdrom</code> directory does not already exist, enter the following command to create it: <pre data-bbox="275 774 454 796"># mkdir /cdrom</pre> 3. Mount the CD-ROM drive. <p data-bbox="237 854 1198 906">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 data-bbox="237 923 1100 946">If running File Manager, a separate File Manager window displays the CD-ROM contents.</p> <ol data-bbox="237 963 1193 1357" style="list-style-type: none"> 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="275 1060 704 1083"># ps -e grep vold grep -v grep</pre> 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="275 1170 715 1192"># ps -ef grep vold grep -v grep</pre> 6. Stop the <code>vold</code> process by entering: <pre data-bbox="275 1251 626 1274"># kill -15 process_ID_number</pre> 7. Mount the CDRom manually: <pre data-bbox="275 1333 941 1355"># mount -F hsfs -r ro /dev/dsk/cxydz /cdrom/cdrom0</pre> <p data-bbox="237 1373 1219 1425">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 data-bbox="87 1442 1208 1492">(cont.) You have now mounted the CD-ROM drive. Refer to <i>Installing and Setting Up CD One on Solaris</i> for procedures on installation.</p>

ID	Summary
4755165	<p data-bbox="315 239 1279 291">On Microsoft Windows, installer functionality is affected if administrator user credentials are supplied only when running setup.exe.</p> <p data-bbox="315 309 1279 439">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="315 456 1300 526" style="list-style-type: none">• The installer will hang if the Browse button is selected on the installation directory selection screen.• Program Group entries for the Sun ONE Application Server items might not be created.
4757687	<p data-bbox="315 621 1293 699">On Solaris, incremental installation of the Sun ONE Application Server component on the system with previously installed Administration Client component might result in an unusable installation.</p> <p data-bbox="315 716 1293 933">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="315 951 408 975">Solution</p> <p data-bbox="315 992 1293 1045">Uninstall the standalone Administration Client before attempting to install the Sun ONE Application Server on the same Solaris system.</p> <p data-bbox="315 1062 1293 1142">Alternatively, an incremental installation can be attempted, but the same installation directory that has been used for the Administration Client installation should be used for the subsequent Sun ONE Application Server installation.</p>

ID	Summary
4762118	<p data-bbox="239 239 1226 291">On Solaris, installation fails if a selected custom configuration directory is a subdirectory of the selected installation directory and is called 'etc'.</p> <p data-bbox="239 309 1226 387">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="239 404 654 473" style="list-style-type: none"><li data-bbox="239 404 654 430">• Installation directory: <i>install_dir</i><li data-bbox="239 447 654 473">• Configuration directory: <i>install_dir/etc</i> <p data-bbox="239 491 1226 517">The <code>pkgadd</code> log file in the <code>/var/sadm/install/logs</code> directory will contain following error message:</p> <pre data-bbox="239 526 825 578">pkgadd: ERROR: duplicate pathname /install_dir/etc pkgadd: ERROR: unable to process pkgmap</pre> <p data-bbox="239 595 328 621">Solution</p> <p data-bbox="239 638 875 659">Select a custom configuration directory other than <i>install_dir/etc</i>.</p>
4724612	<p data-bbox="239 682 1226 734">On Solaris SPARC and Linux, PointBase shell scripts fail if run by someone other than the installing user.</p> <p data-bbox="239 751 1226 803">This issue affects only the evaluation installation. All PointBase shell scripts are set to execute permission only for the installing user.</p> <p data-bbox="239 821 328 847">Solution</p> <p data-bbox="239 864 1226 907">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="239 930 1226 982">On Solaris, the Sun ONE Message Queue package SUNWiqsup is not removed during Message Queue upgrade process.</p> <p data-bbox="239 999 1226 1078">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="239 1095 1226 1199">There is a minor cleanup issue where the Solaris installer does not remove one of the Solaris packages (<code>SUNWiqsup</code>) for Sun ONE Message Queue 3.0 as part of this upgrade process. The presence of this package is harmless and does not affect Sun ONE Message Queue or Sun ONE Application Server 7.</p> <p data-bbox="239 1216 328 1242">Solution</p> <p data-bbox="239 1260 1032 1286">Manually remove the <code>SUNWiqsup</code> package using the following command (as root):</p> <pre data-bbox="239 1303 454 1329"># pkgrm SUNWiqsup</pre>

ID	Summary
4890289	<p>On Window 2000 Pro, the uninstaller is not able to find the JDK to run uninstallation.</p> <p>On Windows 2000 Pro, uninstallation fails with the following message:</p> <p>The uninstaller could not locate a suitable j2sdk to run the uninstalition program. Run the uninstalition again with the -javahome option set to the directory in which j2sdk 1.4.0_02 or greater is installed. Press Enter to exit.</p> <p>Solution</p> <p>Use the -javahome JDK location.</p>
4890613	<p>On Linux, the installer is not upgrading the existing J2SE.</p> <p>After installing the Sun ONE Application Server 7, Update 2 software on Linux, the Application Server fails to start with following error:</p> <pre data-bbox="318 612 1303 829">[08/Aug/2003:12:18:34] INFO (4491): CORE1116: Sun ONE Application Server 7.0.0_02 [08/Aug/2003:12:18:34] SEVERE (4491): CORE3170: Configuration initialization failed: Error running init function load-modules: dlopen of /opt/SUNWappserver7/lib/libj2eeplugin.so failed (/usr/java/j2sdk1.4.1/jre/lib/i386/server/libjvm.so: version SUNWprivate_1.1' not found (required by /opt/SUNWappserver7/lib/libj2eeplugin.so))</pre> <p>Solution</p> <p>For every affected instance of Sun ONE Application Server 7, Update 2 modify the java-home value in the <instance-id>/config/server.xml file as follows:</p> <pre data-bbox="318 951 756 977">java-home="/usr/java/j2sdk1.4.1_04"</pre>
4933997	<p>On Linux, after upgrading, the server fails to start up.</p> <p>After upgrading the server fails to start up and the log file indicates that the JMS service startup failed.</p> <p>Solution</p> <p>You must create a soft links between the following directories.</p> <ul data-bbox="368 1159 842 1237" style="list-style-type: none"> • Link /opt/imq/etc to /etc/opt/imq • Link /opt/imq/var to /var/opt/imq <p>Once you have made the soft links, try starting the server again.</p>

Server Startup and Shutdown

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

Behavior of Log Service create-console Attribute

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

For developers, closing the event log window of an instance can be used as a means of quickly restarting the 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 1038 825 1064">On Solaris, License expiration information is not shown.</p> <p data-bbox="239 1081 1225 1159">Affects Solaris SPARC evaluation licenses. Warning information relating to imminent expiration of license (within 14 days or less of expiration) would not be reported through the command-line interface and browser-based interfaces. The warnings would, however, appear in the server log files.</p> <p data-bbox="239 1177 328 1203">Solution</p> <p data-bbox="239 1220 492 1246">Check the server log files.</p>

ID	Summary
4738648	<p data-bbox="317 236 879 262">JMS service/Sun ONE Application Server startup fails.</p> <p data-bbox="317 279 1308 331">If the JMS provider (Sun ONE Message Queue broker) has a large number of undelivered persistent messages, a Sun ONE Application Server initialization failure might occur due to following problems:</p> <ol data-bbox="317 348 1269 374" style="list-style-type: none"><li data-bbox="317 348 1269 374">1. As it tries to load all the pending messages, the MQ broker might run out of memory and abort. <p data-bbox="317 392 405 414">Solution</p> <p data-bbox="317 432 1300 484">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="317 501 1298 553">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="317 571 1300 623" style="list-style-type: none"><li data-bbox="317 571 1300 623">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. <p data-bbox="317 640 405 663">Solution</p> <p data-bbox="317 680 1300 749">Increase the value of the JMS service <code>Start Timeout</code> attribute. The procedure for setting this attribute is described in the "Using the JMS Service" chapter of the <i>Sun ONE Application Server Administrator's Guide</i>.</p>

ID	Summary
4762420	<p data-bbox="239 239 982 265">Firewall rules might cause Sun ONE Application Server startup failures.</p> <p data-bbox="239 282 1249 447">If you have a personal firewall installed, you might experience this problem. The presence of strict firewall rules on the same machine as a Sun ONE Application Server installation might cause startup failures of the Admin Server and App Server instances. Specifically, the Admin Server and App Server instances attempt to establish local connections within the Sun ONE Application Server environment. Since these connection attempts access ports using the host name of the system rather than localhost, local firewall rules might block such attempts.</p> <p data-bbox="239 465 1249 621">The local firewall might also inadvertently generate alerts saying that either the "Portal of Doom Trojan" attack (for example, TCP connection attempts on port 3700) or similar attacks have occurred when, in fact, such access attempts have been made by the Sun ONE Application Server and are in no way a security threat to your machine. Under some conditions, the port number which the Sun ONE Application Server uses for various local communications might overlap with port numbers used in known popular attacks. Some symptoms of this problem:</p> <ul data-bbox="239 638 1249 855" style="list-style-type: none"> <li data-bbox="239 638 1249 777">• An attempt to start the Sun ONE Application Server using the Microsoft Windows program group item "Start Application Server" fails with this message: <pre data-bbox="275 708 968 786">Could not start the instance: domain1:admin-server server failed to start: abnormal subprocess termination ...</pre> <li data-bbox="239 803 1249 855">• The administrative and server instance log files contain connection exceptions followed by this message: CORE3186: Failed to set configuration <p data-bbox="239 873 328 899">Solution</p> <p data-bbox="239 916 1249 968">Modify the firewall policy to allow the Sun ONE Application Server to make connection attempts to ports on the local system.</p> <p data-bbox="239 986 1249 1038">To avoid inaccurate alerts concerning possible attacks, either modify the relevant rules or change the conflicting port number(s) used by the Sun ONE Application Server.</p> <p data-bbox="239 1055 1249 1107">To determine the port numbers used by the Admin Server and App Server instances, see the <code>server.xml</code> file in the following location of your Sun ONE Application Server installation:</p> <pre data-bbox="275 1124 932 1168"> domain_config_dir/domain1/admin-server/config/server.xml domain_config_dir/domain1/server1/config/server.xml </pre> <p data-bbox="239 1185 1249 1211">where <code>domain_config_dir</code> is the location of your initial server configuration. For example:</p> <p data-bbox="239 1229 1249 1307">Microsoft Windows: <code>install_dir/domains/...</code> Solaris 9 and above integrated install: <code>/var/appserver/domains/...</code> Solaris 8, 9 and above unbundled install: <code>/var/opt/SUNWappserver7/domains/...</code></p> <p data-bbox="239 1324 1249 1435">Look for the port settings in the <code><iiop-listener></code> and <code><jms-service></code> elements. You can either change these port numbers to other unused port numbers, or you can modify your firewall policy to allow connection attempts from clients on the local machine to these port numbers on the same machine.</p>

ID	Summary
4780076	<p data-bbox="317 239 1232 291">On Solaris, the Sun ONE Application Server starts all instances as root thereby allowing non-root users to have root access.</p> <p data-bbox="317 309 1292 361">There are several issues associated with application server startup when the Sun ONE Application Server is installed as part of a Solaris installation (bundled):</p> <ul data-bbox="317 378 1292 604" style="list-style-type: none"> <li data-bbox="317 378 1292 482">• All application server and administrative server instances are started automatically during Solaris system startup. In many environments, not all the instances are expected to be started automatically during Solaris system startup. Starting every defined instance can adversely impact the memory available on a system. <li data-bbox="317 499 1292 604">• 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. <p data-bbox="317 621 446 645">Background</p> <p data-bbox="317 663 1292 795">During installation of the Sun ONE Application Server as part of a Solaris installation, the <code>/etc/init.d/appserv</code> script and symbolic links to the <code>S84appserv</code> and <code>K05appserv</code> scripts in the <code>/etc/rc*.d/</code> directories are installed. These scripts cause all the application server and administrative server instances defined as part of the application server installation to be started and stopped automatically during Solaris system startup and shutdown.</p> <p data-bbox="317 812 1032 836">The <code>/etc/init.d/appserv</code> script contains the following section of code:</p> <pre data-bbox="317 864 758 1097">... case "\$1" in 'start') /usr/sbin/asadmin start-appserv ;; 'stop') /usr/sbin/asadmin stop-appserv ;; ... </pre> <p data-bbox="317 1114 1292 1305">Running the <code>asadmin start-appserv</code> command causes the administration server instance and all application server instances defined in all administrative domains to be started during Solaris system startup. Since the system startup and shutdown scripts are executed as root, the startup script for each application server and administrative server instance is also executed as root. The instance-level startup script is named <code>startserv</code> and is located at <code>instance-dir/bin/startserv</code>. Since instances might be owned by users other than root, the <code>startserv</code> scripts could be modified by the non-root user to execute commands as the root user.</p> <p data-bbox="317 1322 1292 1428">In cases where an instance is using a privileged network port, the instance's <code>startserv</code> script must be executed as root. However, in these cases, "run as user" is typically set in the instance's configuration to force the instance to run as the specified user after the instance has been initially started by the root user.</p>

ID	Summary
(cont.)	<p data-bbox="229 239 328 269">Solution</p> <p data-bbox="229 279 963 309">Perform one of the following workarounds depending on your environment:</p> <ul data-bbox="229 319 1249 651" style="list-style-type: none"><li data-bbox="229 319 1249 407">• If your environment does not require all application server and administrative server instances to be started as root, then you should comment out execution of the <code>asadmin start-appserv</code> and <code>asadmin stop-appserv</code> commands in the <code>etc/init.d/appserv</code> script.<li data-bbox="229 418 1249 555">• If your environment requires starting either specific administrative domains (including the administrative server instance and all application server instances of each domain) or specific instances within one or more administrative domains, then you should either modify the <code>/etc/init.d/appserv</code> script to start the domains and/or instances of interest or define new <code>/etc/rc*.d/</code> scripts that suit the needs of your environment.<li data-bbox="229 565 1249 651">• Starting a specific domain. If you require to start either an administrative domain or specific instances as non-root users, then you should ensure that the <code>su</code> command with the <code>-c</code> option is used to start the domains and/or instances of interest. <p data-bbox="229 661 342 690">Examples</p> <p data-bbox="229 701 1249 789">Starting a specific administrative domain—If you want to start the administrative server instance and all application server instances of a specific administrative domain as the root user, you can modify the <code>/etc/rc*.d/</code> scripts as follows:</p> <pre data-bbox="229 800 1249 1065">... case "\$1" in 'start') /usr/sbin/asadmin start-domain --domain production-domain ;; 'stop') /usr/sbin/asadmin stop-domain --domain production-domain ;; ... </pre>

ID	Summary
(cont.)	<ul style="list-style-type: none"><li data-bbox="321 225 1325 286">• 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="321 312 1325 729">... 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> <p data-bbox="321 737 1325 807">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="239 267 758 289">On Solaris, an ORACLE JDBC driver error occurs.</p> <p data-bbox="239 309 1225 387">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="239 406 325 428">Solution</p> <p data-bbox="239 447 1179 496">Obtain and apply the patch to your server from the Oracle Web site for Bug 2199718. Perform the following steps:</p> <ol data-bbox="239 515 901 782" style="list-style-type: none"> <li data-bbox="239 515 529 538">1. Go to the Oracle web site. <li data-bbox="239 557 525 579">2. Click the 'patches' button. <li data-bbox="239 598 668 621">3. Type 2199718 in the patch number field. <li data-bbox="239 640 901 663">4. Click the 32-bit Solaris OS patch.Go to Metalink.oracle.com. <li data-bbox="239 682 411 704">5. Click patches. <li data-bbox="239 723 634 746">6. Under patch number, enter 2199718. <li data-bbox="239 765 596 788">7. Click the 32 bit Solaris OS patch.
4707531	<p data-bbox="239 802 1150 850">On Solaris, accessing an Oracle 9.1 database with an Oracle 9.2 Client might cause data corruption.</p> <p data-bbox="239 869 1225 918">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="239 937 1203 1015">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 1034 325 1057">Solution</p> <p data-bbox="239 1076 1225 1124">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="315 262 1303 314">The web cache example in sun-web-app_2_3-0.dtd file provides incorrect syntax for the timeout element.</p> <p data-bbox="315 331 951 357">The <code>timeout</code> element is specified to use in XML cache object as:</p> <pre data-bbox="315 361 608 383"><timeout> 60 </timeout></pre> <p data-bbox="315 401 1008 427">Because the name parameter is a required field, it should be written as:</p> <pre data-bbox="315 430 719 453"><timeout name="foo">60</timeout></pre> <p data-bbox="315 470 408 496">Solution</p> <p data-bbox="315 513 546 539">Do not use with verifier.</p>
4817642	<p data-bbox="315 552 1282 578">Allowing separate web applications to share the same session ID creates security weakness.</p> <p data-bbox="315 595 408 621">Solution</p> <p data-bbox="315 638 1303 881">According to J2EE specification, each deployed web application maintains separate, unique session objects (session IDs). This is the default behavior of the Sun One Application Server. However, in some instances it may be desirable to allow separate web applications to share the same session ID. In this case, the Sun One Application Server allows you to specify a special deployment property in the <code>sun-web.xml</code> deployment descriptor to tell the application server that this particular application is allowed to reuse session IDs when going across web application modules. (The first access to a web application will generate a new unique session ID. Later requests to other web applications that have this property set will use that same session ID instead of generating a new one for this client and this web application.)</p> <p data-bbox="315 899 1303 951">To do this, the <code>reuseSessionId</code> property must be set to true for each deployed web application upon which you want to allow sharing of the same session object. For example:</p> <pre data-bbox="315 968 1043 1237"><?xml version="1.0" encoding="UTF-8"?> <sun-web-app> <session-config> <cookie-properties> <property name="cookiePath" value = "/" /> <property name="cookieDomain" value = ".sun.com" /> </cookie-properties> </session-config> <property name="reuseSessionID" value="true"/> </sun-web-app></pre> <p data-bbox="315 1255 929 1281">The property <code>reuseSessionID</code> is set to true in next to last line.</p> <p data-bbox="315 1298 1303 1428">CAUTION: Turning on <code>reuseSessionId</code> opens a potential avenue for a security weakness (though it is not a weakness in of itself). This property should not be used in a shared environment (such as an ISV) where multiple customers are allowed to run their applications on the same Sun One Application Server instance. In such as setting, it is much safer to use the default J2EE behavior of forcing different web applications deployed to the same server instance to use different session objects.</p>

ID	Summary
4910686	<p>On an SSL port, the Application Server requests a client certificate from the browser, even when the SSL port is not client authentication enabled.</p> <p>Solution</p> <p>None.</p>

EJB Container

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

ID	Summary
4735835	<p>Cannot properly handle null PKs returned from ejbFind methods.</p> <p>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 style="list-style-type: none"> <code>find insurance.employee where insurance.id == 10</code> <p>This returns null if such insurance does not have an employee associated with it.</p> <ol style="list-style-type: none"> <code>find all insurance.employee where insurance.id > 10</code> <p>This returns a collection that might contain nulls for those insurances that do not have an employee.</p> <p>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>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>Solution</p> <p>None.</p>
4744434	<p>The Sun ONE Application Server occasionally throws Null Pointer Exception when using stateful session beans.</p> <p>The EJB container in the Sun ONE Application Server caches stateful session beans to improve performance. When the cache overflows (that is, the number of beans in the cache exceeds <code>max-cache-size</code>) the container passivates beans to the disk. Occasionally the server throws <code>NullPointerException</code>. The problem occurs when the difference between <code>max-cache-size</code> and <code>cache-resize-quantity</code> is less than 8.</p> <p>Solution</p> <p>Ensure that the difference between <code>max-cache-size</code> and <code>cache-resize-quantity</code> is greater than eight, or use an unbounded cache by setting <code>max-cache-size</code> to zero.</p>

Container-Managed Persistence

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

ID	Summary
4732684	<p>Oracle JDBC driver optimizations are not being initiated.</p> <p>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.</p> <p>Solution</p> <p>Add the <code>classes12.zip</code> file to the <code>classpath-suffix</code> attribute of the <code>server.xml</code> file.</p>
4734963	<p>Self-referencing CMRs cause problem during deployment.</p> <p>The parser of the EJB deployment descriptor, <code>ejb-jar.xml</code>, does not correctly handle self-referencing container-managed relationships (CMRs), that is, <code>ejb-relationship-role</code>. The One side field is skipped.</p> <p>Solution</p> <p>Switch the <code>ejb-relationship-role</code> sections so that the One side (with <code><multiplicity> Many</code>) is the first in <code>ejb-relation</code>.</p>

ID	Summary
4747222	<p data-bbox="239 239 1122 262">On Oracle, the capture-schema utility does not work if -schemaname is not specified.</p> <p data-bbox="239 282 1193 331">The <code>capture-schema</code> 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="239 352 993 374" style="list-style-type: none"> <li data-bbox="239 352 993 374">1. If you attempt to capture all tables (that is, no tables are explicitly chosen): <pre data-bbox="239 395 1215 444">bin/capture-schema -dburl jdbc:oracle:thin:@oraserver:1521:ora -username scott -password tiger -driver oracle.jdbc.driver.OracleDriver -out test.dbschema</pre> <p data-bbox="239 465 396 487">You will receive:</p> <pre data-bbox="239 491 736 539">java.sql.SQLExceptions ORA-00942: table or view does not exist.</pre> <p data-bbox="239 560 565 583">The resulting output file is broken.</p> <ol data-bbox="239 604 843 626" style="list-style-type: none"> <li data-bbox="239 604 843 626">2. If one or more tables are specified with the <code>-table</code> option: <pre data-bbox="239 647 1215 713">bin/capture-schema -dburl jdbc:oracle:thin:@oraserver:1521:ora -username scott -password tiger -driver oracle.jdbc.driver.OracleDriver -table DEPT -out test.dbschema</pre> <p data-bbox="239 734 1193 782">The resulting file has the specified tables, but no column information, which means the file can't be used for CMP mapping.</p> <p data-bbox="239 803 325 826">Solution</p> <p data-bbox="239 847 1193 895">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="239 916 1215 982">bin/capture-schema -dburl jdbc:oracle:thin:@oraserver:1521:ora -username scott -password tiger -driver oracle.jdbc.driver.OracleDriver -schemaname SCOTT -out test.dbschema)</pre>
4751235	<p data-bbox="239 1008 1179 1057">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.</p> <p data-bbox="239 1078 1215 1208">Oracle (R) and PointBase internally translate case-insensitive identifiers into uppercase letters, unless the identifier are enclosed in " "). The <code>capture-schema</code> 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="239 1229 325 1251">Solution</p> <p data-bbox="239 1272 958 1295">Use uppercase letters to specify table names (such as <code>-table STUDENT</code>).</p>

Message Service and Message-Driven Beans

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

ID	Summary
4683029	<p data-bbox="318 267 1300 317">The <code>-javahome</code> flag in all MQ Solaris/Microsoft Windows scripts does not work if the value has a space.</p> <p data-bbox="318 336 1300 413">The command-line utilities in Sun ONE Message Queue have a <code>-javahome</code> option that allows you to specify an alternate Java runtime. Using this option exposes a limitation where the path of the specified alternate Java runtime must not contain spaces. Examples of paths that have spaces are:</p> <ul data-bbox="318 432 676 496" style="list-style-type: none"> <li data-bbox="318 432 676 454">• Microsoft Windows: <code>C:\jdk 1.4</code> <li data-bbox="318 473 676 496">• Solaris: <code>/work/java 1.4</code> <p data-bbox="318 515 1300 699">This problem occurs at Sun ONE Application Server instance startup. When a Sun ONE Application Server instance is started, by default its corresponding Sun ONE Message Queue broker instance is also started. The broker always starts using the <code>-javahome</code> command-line option to ensure that it uses the same Java runtime used by the Sun ONE Application Server. If the Java runtime that is configured for use by the Sun ONE Application Server (and therefore passed on for use by the broker) is located at a path that contains spaces, broker startup fails, which also causes the Sun ONE Application Server instance startup to fail.</p> <p data-bbox="318 718 405 741">Solution</p> <p data-bbox="318 760 1300 807">Make sure that the Java runtime used by the Sun ONE Application Server is located at a path that does not contain spaces.</p>

Java Transaction Service (JTS)

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

Recovery

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

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

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

This property value should be set to true.

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

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

This property value should be sent to true.

Transactions

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

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

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

ID	Summary
4689337	<p data-bbox="239 899 1249 927">The connection from XADatasource in non-txn context cannot be used.</p> <p data-bbox="239 940 1249 996">This is a known database driver issue. When there is a connection in a non-txn context, with XADataSource the <code>Autocommit</code> is set to false by default.</p> <p data-bbox="239 1010 1249 1038">Solution</p> <p data-bbox="239 1052 1249 1107">Use the non-XA datasource class to call the commit/rollback programs explicitly rather than through transactions.</p>
4700241	<p data-bbox="239 1124 1249 1152">Non-zero transaction timeout setting causes slow local transactions.</p> <p data-bbox="239 1166 1249 1326">Currently, the Local Transaction Manager does not support transactions with definite timeouts. If you set the <code>timeout-in-seconds</code> attribute in <code>transaction-service</code> element to a value greater than 0, all local transactions will be processed as a global transactions, and will take longer to complete. A local transaction might also fail, if the data source driver does not support global transactions. A timeout value of 0 means that the transaction manager will wait indefinitely if it does not hear back from a participating data source.</p> <p data-bbox="239 1340 1249 1367">Solution</p> <p data-bbox="239 1381 1249 1409">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>On Microsoft Windows, long path names are not supported.</p> <p>Refer to “Installation and Uninstallation” on page 11 for information on this problem.</p>
4703680	<p>Redeploying an EJB module (with MDB) throws a resource conflict exception.</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>Solution</p> <p>None.</p>
4725147	<p>Cannot choose a particular virtual server for deployment.</p> <p>In this case, two virtual servers are configured with exactly the same host and listener. If an application is deployed only for second virtual server, it cannot be reached because combination host:port leads to the first virtual server.</p> <p>Solution</p> <p>The virtual server hostname should not be the same as the original hostname, especially when the same HTTP listener is used.</p>
4734969	<p>Can't deploy application with user's Query class in the bean package.</p> <p>Container-managed persistence (CMP) code-gen does not use the fully qualified name for the JDO Query variable in <code>concreteImpl</code>. If you have a Query class in the same package as the abstract bean, a compilation error occurs.</p> <p>Solution</p> <p>Move the Query class into another or separate package.</p>
4750461	<p>On Solaris, the Sun ONE Application Server might crash during dynamic reloading.</p> <p>For a large application (with many enterprise beans), a crash might occur during dynamic reloading of the application. The dynamic reloading feature is used, in the development environment, to quickly test minor changes to an application. The crash is caused by attempting to use more file descriptors than are available.</p> <p>Solution</p> <ol style="list-style-type: none"> 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 data-bbox="344 1463 594 1512">set rlim_fd_max=8192 set rlim_fd_cur=2048</pre> 2. Reboot the system.

ID	Summary
4744128	<p data-bbox="239 239 959 265">The EJB compiler fails to generate valid JAVA code for inner classes.</p> <p data-bbox="239 282 1225 335">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="239 352 1192 803"> 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="239 821 816 847">NOTE: The <code>getProperties</code> method returns an inner class.</p> <p data-bbox="239 864 445 890">Example of the error:</p> <pre data-bbox="239 907 1053 977"> D:\AppServer7a\appserv\domains\domain1\server1\generated\ejb\ j2ee-apps\smugglercom\spss\ssp\state\ejb\StateServerEJB_EJBObject Impl.java:133: </pre> <p data-bbox="239 994 782 1020">Direct use of synthetic inner class names is not allowed:</p> <pre data-bbox="239 1029 831 1046"> com.spss.ssp.state.IStateServer\$StateProperties </pre> <p data-bbox="239 1064 539 1090">The generated code should be</p> <pre data-bbox="239 1098 831 1116"> com.spss.ssp.state.IstateServer.StateProperties </pre> <p data-bbox="239 1133 339 1159">instead of</p> <pre data-bbox="239 1168 831 1185"> com.spss.ssp.state.IstateServer\$StateProperties </pre> <p data-bbox="239 1203 331 1229">Solution</p> <p data-bbox="239 1237 902 1263">Move <code>StateProperties</code> to a separate (standalone not inner) class.</p>

The appclient Script

This section describes the known appclient script issues and associated solutions.

ID	Summary
4925548	The applclient script will not work with JDK 1.4.2
	Solution
	Use JDK 1.4.1_04 to ensure the <code>applclient</code> script works correctly.

Verifier

This section describes the known verifier issues and associated solutions.

ID	Summary
4742545	Standalone verifier shows EJB Class Not Found errors.
	<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>
	Solution
	<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>

ID	Summary
4743480	<p data-bbox="239 239 1219 262">Verifier cannot detect the methods declared in the super interface of the local home interface.</p> <p data-bbox="239 282 1219 470">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 data-bbox="239 487 325 510">Solution</p> <p data-bbox="239 527 1219 631">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 might not be supported in future releases, such as:
 - `cmt-max-runtime-exceptions` property of the `mdb-container` element

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

ID	Summary
4742559	<p data-bbox="318 267 1051 289">If IPv6 is not used in your network, this problem does not apply to you.</p> <p data-bbox="318 309 1068 331">NOTE: If IPv6 is not used in your network, this problem does not apply to you.</p> <p data-bbox="318 350 1300 425">By default, the Sun ONE Application Server uses IPv4. This is supported by all platforms on which the Sun ONE Application Server is available. In certain platforms, IPv6 is supported. In this case, Sun ONE Application Server configuration changes are required for conformance.</p> <p data-bbox="318 444 1300 520">NOTE: If these configuration changes are to be made, it is essential to be absolutely sure of IPv6 support on the platforms. Server instances might not start if the IPv6-related configuration is applied to a system that has only IPv4 support.</p> <p data-bbox="318 539 405 562">Solution</p> <p data-bbox="318 581 748 604">Perform the following configuration changes:</p> <ol data-bbox="318 623 1208 1159" style="list-style-type: none"> 1. Start the Admin Server. 2. Start the Administration interface. (Connect to Admin Server http host/port in a browser). 3. Select the App Server instance to configure for IPv6, such as server1. 4. Expand the HTTP Listeners node in the tree view. 5. Select the HTTP Listener to configure for IPv6, such as http-listener1. 6. In the General section, change the value of the IP Address field to ANY. 7. In the Advanced section, change the value of the Family field to INET6. <p data-bbox="318 909 1300 956">Setting the Family field to INET6 does not disable IPv4 functionality unless an IPv6 address is selected for IP address. Selecting an IP address of ANY will match any IPv4 or IPv6 address.</p> <ol data-bbox="318 975 993 1159" style="list-style-type: none"> 8. Click Save. 9. In the left pane, select your server instance. 10. Click Apply Changes. 11. Click Stop. 12. Click Start. This restarts the server and implements your changes.

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

Server Administration

This section addresses the following areas:

- **Command Line Interface (CLI)**
- **Administration Infrastructure**
- **Administration Interface**

Command Line Interface (CLI)

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

ID	Summary
4676889	<p>CLI command overflows in single-mode if the command is more than 256 characters long.</p> <p>On UNIX(R), when executing a CLI command in single-mode that contains more than 256 characters, the command fails with this error: <code>...Command Not Found...</code></p> <p>This is a terminal restriction, not a CLI restriction.</p> <p>Example:</p> <pre>create-jdbc-connection-pool --instance server4 --datasourceuser admin --datasourcepassword adminadmin --datasourceclassname test --datasourceurl test --minpoolsize=8 --maxpoolsize=32 --maxwait=60000 --poolresize=2 --idletimeout=300 --connectionvalidate=false --validationmethod=auto-commit --failconnection=false --description test sample_connectionpoolid)</pre> <p>Solution</p> <ol style="list-style-type: none"> For commands that require more than 256 characters, use CLI multi-mode. If you must use single-mode, run the command using OpenWin <code>cmdtool</code>.
4680409	<p>After configuring an instance to use SSL, the administrator cannot access the Admin Server from either the CLI or browser clients.</p> <p>Solution</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>
4688386	<p>Using the asterisk (*) character in single-mode CLI command results in unexpected behavior and/or error messages.</p> <p>The asterisk character is being expanded by the underlying shell into a list of names, and it is this list of names that is being seen by the command-line interface (CLI) command. Putting quote marks around the asterisk prevents the shell from expanding the asterisk, and thus the CLI gets to see the asterisk itself.</p> <p>Solution</p> <p>Use quote characters (either single or double quotes) around the asterisk.</p>

ID	Summary
4701361	<p data-bbox="239 241 1148 262">Repeated changes applied to any instance eventually results in an out of memory error.</p> <p data-bbox="239 282 1190 357">The Admin Server keeps a record of all changes performed to the system, which requires memory. This change record (but not the changes themselves) is discarded during a reconfiguration, thus releasing the memory for use.</p> <p data-bbox="239 378 325 399">Solution</p> <p data-bbox="239 420 1005 440">Use the <code>asadmin reconfig</code> command periodically to discard old change records.</p>
4704328	<p data-bbox="239 461 982 482">Cleanup does not happen when a call to create a duplicate domain fails.</p> <p data-bbox="239 503 1222 578">When a domain that already exists is created, an appropriate error message is generated. However, a directory specified by the <code>-path</code> option in the <code>create-domain</code> command is created if it did not exist earlier. This should be removed since the command failed.</p> <p data-bbox="239 598 325 619">Solution</p> <p data-bbox="239 640 1222 661">Remove any additional empty directory specified that might be created after the <code>-path</code> option is used.</p>
4708813	<p data-bbox="239 682 996 703">Cannot monitor the default (pointbase) connection-pool JDBC resources.</p> <p data-bbox="239 723 1210 772">The JDBC connection pools are created dynamically on demand, which means that a pool is created the first time it is used. If the pool has not been created (not used), monitoring is not possible.</p> <p data-bbox="239 793 325 814">Solution</p> <p data-bbox="239 835 768 855">Create the desired connection pool to allow monitoring.</p>
4722007	<p data-bbox="239 876 1029 897">Monitoring: Execution times of less than 1 millisecond cannot be measured.</p> <p data-bbox="239 918 1179 966">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="239 987 1222 1062">iasadmin>get -m server1.application.usecaselapp.ejb-module.UseCase1Ejb_jar.entity-bean.BeanOne .bean-method.method_create0.*</pre> <p data-bbox="239 1083 594 1104">The following attributes are returned:</p> <pre data-bbox="239 1124 1053 1338">Attribute name = total-num-errors Value = 0 Attribute name = method-name Value = public abstract com.iplanet.ias.perf.jts.UseCase1.ejb.BeanOneRemote com.iplanet.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 1359 1222 1433">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 1454 325 1475">Solution</p> <p data-bbox="239 1496 297 1517">None.</p>

ID	Summary
4733109	<p data-bbox="318 239 1286 291">Verifier error reported in Administration interface when viewing Persistence Manager Factory resource created from command-line interface.</p> <p data-bbox="318 309 1286 361">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="365 378 1286 404">ArgChecker Failure: Validation failed for jndiName: object must be non-null</pre> <p data-bbox="318 421 404 447">Solution</p> <p data-bbox="318 465 375 491">None.</p>
4742993	<p data-bbox="318 508 1286 560">On Solaris, the flexanlg command causes open failure when used on Sun ONE Application Server that is integrated into Solaris.</p> <p data-bbox="318 578 1286 630">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="318 647 1286 725">ld.so.1: /usr/appserver/bin/flexanlg: fatal: libplc4.so: open failed: No such file or directory killed</pre> <p data-bbox="318 743 404 769">Solution</p> <p data-bbox="318 786 532 812">Complete these steps.</p> <ol data-bbox="318 829 853 855" style="list-style-type: none"> <li data-bbox="318 829 853 855">1. Add the following entry to <code>LD_LIBRARY_PATH</code> file: <pre data-bbox="318 873 461 899">usr/lib/mps</pre> <ol data-bbox="318 907 696 933" style="list-style-type: none"> <li data-bbox="318 907 696 933">2. Then run the <code>flexanlg</code> command. <pre data-bbox="318 951 682 977">% /usr/appserver/bin/flexanlg</pre>
4750518	<p data-bbox="318 994 961 1020">Some CLI commands do not work on the target Admin Server.</p> <p data-bbox="318 1038 1286 1107">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="318 1124 404 1150">Solution</p> <p data-bbox="318 1168 1175 1194">Use the Administration interface to create, delete, and list elements in the Admin Server.</p>

Administration Infrastructure

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

ID	Summary
4676888	<p data-bbox="237 262 1215 289">On Microsoft Windows 2000, cannot create JVM when JVM heap size is set to a large value.</p> <p data-bbox="237 305 1215 333">If you try to set a larger JVM heap size on Windows 2000, you might get the following error message:</p> <p data-bbox="237 348 815 427">Error occurred during initialization of VM, Could not reserve enough space for object heap Internal error: unable to create JVM</p> <p data-bbox="237 442 325 470">Solution</p> <p data-bbox="237 484 1215 536">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="237 552 1215 661">The Rebase utility, which comes both with Microsoft Framework SDK and Microsoft Visual Studio, allows you to set optimal base addresses for a number of DLLs starting from some address and thereby increasing JVM heap availability. The SDK Help Rebase topic recommends using address 0x60000000. For more details on rebase utility:</p> <p data-bbox="284 677 1215 734">http://msdn.microsoft.com/library/default.asp?url=/library/en-us/tools/tools/performance_tools.asp</p> <p data-bbox="237 749 382 777">Requirements:</p> <ul data-bbox="237 793 801 857" style="list-style-type: none"><li data-bbox="237 793 801 821">• Window 2000 system with 2-4 GB memory<li data-bbox="237 836 801 864">• Visual Studio/Microsoft Framework SDK Rebase utility <p data-bbox="237 873 815 900">To apply rebase to S1AS dynamic libraries do the following:</p> <ol data-bbox="237 916 591 1058" style="list-style-type: none"><li data-bbox="237 916 591 944">1. cd into <i>install_dir</i>\bin<li data-bbox="237 960 591 987">2. rebase -b 0x60000000 *.dll<li data-bbox="237 1003 591 1031">3. cd ..\lib<li data-bbox="237 1046 591 1074">4. rebase -b 0x66000000 *.dll
4686003	<p data-bbox="237 1081 1215 1109">HTTP Quality of Service limits are not enforced.</p> <p data-bbox="237 1124 1215 1229">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="237 1244 325 1272">Solution</p> <p data-bbox="237 1288 1215 1373">To fully enable QOS features, you must manually add an AuthTrans fn=qos-handler line to the top of the default object in the <i>obj.conf</i> file of the virtual server. The qos-handler Server Application Function (SAF) and <i>obj.conf</i> configuration file are described in the <i>Developer's Guide to NSAPI</i>.</p>

ID	Summary
4692673	<p data-bbox="318 239 1243 291">Restarting an instance in debug mode seems to fail if the instance is originally running in non-debug mode.</p> <p data-bbox="318 309 1300 413">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="318 430 408 453">Solution</p> <p data-bbox="318 470 379 493">None.</p>
4699450	<p data-bbox="318 517 1236 569">On Microsoft Windows 2000, deployment fails for EAR files if total length of the path to a generated file during deployment exceeds 260 characters.</p> <p data-bbox="318 586 1300 661">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="318 678 408 701">Solution</p> <p data-bbox="318 718 1296 743">When deploying an application, use a path and file name that are less than 260 characters combined.</p>
4723776	<p data-bbox="318 767 1172 789">On Solaris, server fails to restart when converting to an SSL-enabled environment.</p> <p data-bbox="318 807 1282 939">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="318 956 1282 979">NOTE: This problem only occurs the first time the server is restarted. Subsequent restarts work fine.</p> <p data-bbox="318 996 408 1019">Solution</p> <p data-bbox="318 1036 682 1058">If you have encountered this problem:</p> <p data-bbox="332 1076 444 1098">Click Start.</p> <p data-bbox="318 1116 1162 1138">To avoid this problem, perform the following steps instead of clicking the Restart button.</p> <p data-bbox="332 1156 444 1178">Click Stop.</p> <p data-bbox="332 1196 444 1218">Click Start.</p>
4724780	<p data-bbox="318 1236 1043 1258">Cannot start Admin Server if the domain is created in another system.</p> <ul data-bbox="368 1275 1300 1477" style="list-style-type: none"><li data-bbox="368 1275 1300 1367">• 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 data-bbox="368 1390 1300 1477">• 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. <p data-bbox="318 1499 408 1522">Solution</p> <p data-bbox="318 1539 379 1562">None.</p>

ID	Summary
4734184	<p data-bbox="239 239 911 263">On Microsoft Windows 2000, the console is sometimes disabled.</p> <p data-bbox="239 279 1192 357">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="239 373 328 397">Solution</p> <p data-bbox="239 413 1222 494">Disable automatic creation of the console for server1 instance by setting <code>log-service create-console</code> attribute to <code>false</code>. Clicking the mouse or pressing Enter on the console log might also solve this problem.</p>
4736554	<p data-bbox="239 517 1216 565">After a secure http listener has been removed from a server, the administrator is still prompted for the (no longer needed) password.</p> <p data-bbox="239 581 328 605">Solution</p> <p data-bbox="239 621 701 645">Remove the entire server and then add it again.</p> <p data-bbox="239 661 1222 716">NOTE: To avoid the problem in the future—Before removing the http listener, disable security using the following command:</p> <pre data-bbox="239 732 1158 894">/export2/build/bin/> asadmin set --user admin --password adminadmin server1.http-listener.http-listener-1.securityEnabled=false Attribute securityEnabled set to false. /export2/build/bin/> asadmin delete-http-listener --user admin --password adminadmin ls2 Deleted Http listener with id = ls2</pre>
4737756	<p data-bbox="239 916 978 940">On Microsoft Windows 2000, corrupt messages display on the console.</p> <p data-bbox="239 956 1200 1005">On Windows 2000, for a non-English locale (such as Japanese) you might see corrupted messages displayed on the console.</p> <p data-bbox="239 1020 328 1045">Solution</p> <p data-bbox="239 1060 729 1085">Use the Admin interface to view the log messages.</p>

ID	Summary
4739831	<p data-bbox="318 239 1182 262">A partially-deleted instance causes incorrect responses from some CLI commands.</p> <p data-bbox="318 279 1248 331">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="318 348 1290 401" style="list-style-type: none"><li data-bbox="318 348 1290 401">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. <p data-bbox="318 418 408 440">Solution</p> <p data-bbox="318 458 1205 480">Manually remove the leftover instance directory, then run the <code>create-instance</code> command.</p> <ol data-bbox="318 498 1286 550" style="list-style-type: none"><li data-bbox="318 498 1286 550">2. The <code>list-instances</code> command in local mode includes the partially-deleted instance name and status. <p data-bbox="318 567 408 590">Solution</p> <p data-bbox="318 607 1193 630">Manually remove the leftover instance directory, then run the <code>list-instances</code> command.</p> <ol data-bbox="318 647 1258 699" style="list-style-type: none"><li data-bbox="318 647 1258 699">3. On Microsoft Windows 2000, the <code>start-instance</code> command in remote mode displays a null string. <p data-bbox="318 716 408 739">Solution</p> <p data-bbox="318 756 1300 808">Manually remove the leftover instance directory, create a new instance, then run the <code>start-instance</code> command.</p> <ol data-bbox="318 826 1282 904" style="list-style-type: none"><li data-bbox="318 826 1282 904">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. <p data-bbox="318 921 1275 999">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="318 1017 408 1039">Solution</p> <p data-bbox="318 1057 782 1079">Manually remove the leftover instance directory.</p>
4739891	<p data-bbox="318 1107 1296 1159">Deletion of a virtual server fails if the default web module referred to by the virtual server does not exist or has been undeployed.</p> <p data-bbox="318 1177 408 1199">Solution</p> <p data-bbox="318 1216 1300 1269">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>

ID	Summary
4740022	<p data-bbox="239 239 1072 262">SNMP: END OF MIB is returned when adding and starting a new instance server.</p> <p data-bbox="239 282 1210 331">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="239 352 325 374">Solution</p> <ol data-bbox="239 395 1210 562" style="list-style-type: none"><li data-bbox="239 395 1210 470">1. To view a new instance, make sure the subagent and all the instance server processes are shut down. Under each server ->Monitoring -> "Enable SNMP Statistics Collection: on", apply the change, then restart each instance server, and start only one subagent process again.<li data-bbox="239 491 1210 562">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).
4737138	<p data-bbox="239 586 1150 635">License expired message does not appear at Microsoft Windows Services or at the DOS prompt.</p> <p data-bbox="239 656 1210 704">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="239 725 901 748">Solution Start servers from CLI (<code>asadmin</code>) or from Sun program icon</p>
4780488	<p data-bbox="239 769 793 791">Existence of multiple <code>obj.conf</code> files causes confusion.</p> <p data-bbox="239 812 1210 965">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="239 986 1210 1090">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 1111 1210 1185">For example, if you modified the file named <code>obj.conf</code> while configuring the Sun ONE Application Server web server plug-in, your pass through settings will not take effect because the wrong <code>obj.conf</code> file has been modified.</p> <p data-bbox="239 1206 325 1229">Solution</p> <p data-bbox="239 1249 1210 1289">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>
4938319	<p data-bbox="239 1315 893 1338">Errors when using SSL and web server (reverse proxy) plug-in.</p> <p data-bbox="239 1359 825 1381">502 errors occur when using SSL and the web server plug-in</p> <p data-bbox="239 1402 325 1425">Solution</p> <p data-bbox="239 1446 1210 1550">Set the <code>keepAliveTimeout</code> value to the same value in both the Sun ONE Web Server <code>magnus.conf</code> file and the Sun ONE Application Server's <code>init.conf</code> file. If these values are different the connection may be closed when the Application Server connects to the Web Server or the Web Server connects to the Application Server. If the connection is already closed, you see a 502 error.</p>

Administration Interface

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

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

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

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

ID	Summary
4725473	External certificate nickname doesn't display on the Administration interface Nickname list. <p data-bbox="239 279 1215 387">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="239 402 325 427">Solution</p> <ol data-bbox="239 442 1215 591" style="list-style-type: none">1. Log in to the system where the Sun ONE Application Server software is installed as an Administrative User.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. <pre data-bbox="239 607 753 878">/sun/appserver7/bin/asadmin create-ssl --user admin --password <i>password</i> --host <i>host_name</i> --port 8888 --type http-listener --certname nobody@apprealm:Server-Cert --instance server1 --ssl3enabled=true --ssl3tlsciphers +rsa_rc4_128_md5 http-listener-1</pre> <p data-bbox="239 894 1222 973">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="239 989 1076 1013" style="list-style-type: none">3. Enable the http-listener to listen in SSL mode by using the following CLI command. <pre data-bbox="239 1029 1005 1196">/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 1211 1019 1236">This command switches the server instance listening state from non-SSL to SSL.</p> <p data-bbox="239 1251 1153 1275">After completing the preceding steps, the certificate is displayed in the Administration interface.</p> <ol data-bbox="239 1291 1051 1315" style="list-style-type: none">4. You can now use the Administration interface to edit the http-listener as needed.

ID	Summary
4728718	<p data-bbox="318 239 1303 291">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.</p> <p data-bbox="318 309 1103 331">In the Administration interface, the log file field cannot be used to add any values.</p> <p data-bbox="318 348 408 371">Solution</p> <p data-bbox="318 388 1203 411">Delete the virtual server just created, create the needed file, then recreate the virtual server.</p> <p data-bbox="318 428 1296 480">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="318 499 1253 522">On Solaris 9 update 2, default browser is incompatible with Sun ONE Application Server 7.</p> <p data-bbox="318 539 1285 591">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="318 609 753 631">Unsupported Browser: Netscape 4.78.</p> <p data-bbox="318 649 1296 730">It is recommended that you upgrade your browser to Netscape 4.79 or Netscape 6.2 to run the Sun ONE Application Server UI. Those who choose not to continue and not upgrade might notice degraded performance and/or unexpected behavior.</p> <p data-bbox="318 748 1303 829">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="318 847 408 869">Solution</p> <ul data-bbox="318 887 1303 1003" style="list-style-type: none"><li data-bbox="318 887 1303 939">• 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 data-bbox="318 956 1303 1003">• 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>.
4750616	<p data-bbox="318 1020 1279 1043">Access Control List (ACL) editing is not supported on some versions of Netscape Navigator.</p> <p data-bbox="318 1060 1303 1142">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="318 1159 408 1182">Solution</p> <p data-bbox="318 1199 725 1222">Choose one of the following workarounds.</p> <ul data-bbox="318 1239 1303 1333" style="list-style-type: none"><li data-bbox="318 1239 889 1262">• Use the supported 4.79 version of Netscape Navigator.<li data-bbox="318 1279 1303 1333">• Manually edit the ACL file. For details on ACL file formatting, see the <i>Sun ONE Application Server Administrator's Guide</i>.

ID	Summary
4752055	<p data-bbox="239 239 961 258">Netscape 4.8 produces warning message on Administration interface.</p> <p data-bbox="239 279 1222 383">When using Netscape 4.8 to access the Administration interface, a warning appears indicating Netscape 4.8 is an unsupported browser. Although no issues have been identified when using Netscape 4.8 to run the Administration interface, more thorough testing needs to be completed on this version of the Netscape browser.</p> <p data-bbox="239 404 325 423">Solution</p> <p data-bbox="239 444 1222 508">Select the Continue hyperlink from the warning message to continue using the Administration interface. Use Netscape 4.79, or upgrade to Netscape 6.2.</p>
4760714	<p data-bbox="239 529 886 548">An invalid Help button appears in the Install Certificate screen.</p> <p data-bbox="239 569 1222 673">In the Install Certificate screen, which displays all the certificate information entered, an invalid Help button is present in the Administration interface. If you click this button, an error message is displayed indicating the help page was not found. Context-sensitive help is only available by clicking the Help link on the top frame of any page.</p> <p data-bbox="239 694 325 713">Solution</p> <p data-bbox="239 734 815 753">Click the Help link in the top pane for context-sensitive help.</p>
4760939	<p data-bbox="239 777 1222 824">SSL: A self-signed certificate generated by certutil is not displayed on the Certificate Nickname list.</p> <p data-bbox="239 845 1222 892">A self-signed certificate is generated by the certutil and Certificate Nickname is not displayed on the Administration interface.</p> <p data-bbox="239 913 325 932">Solution</p> <p data-bbox="239 953 975 972">To use a self-signed certificate, you must manually edit the <code>server.xml</code> file.</p>
4848146	<p data-bbox="239 998 1143 1017">Error occurs accessing the Administration interface if the browser uses a proxy server.</p> <p data-bbox="239 1038 1222 1085">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 1105 325 1124">Solution</p> <p data-bbox="239 1145 479 1164">Disable the proxy server.</p> <p data-bbox="239 1185 272 1204">OR</p> <p data-bbox="239 1225 946 1244">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="318 267 1219 289">Error occurs when spaces are specified in directories to be used by Sun ONE Studio 4.</p> <p data-bbox="318 309 1293 361">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="318 380 405 402">Solution</p> <p data-bbox="318 421 1293 466">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="318 489 1179 512">ConnectionException was thrown while establishing a connection to the debugger.</p> <p data-bbox="318 531 1300 583">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="318 602 405 624">Solution</p> <p data-bbox="318 644 472 666">Restart the IDE.</p>
4727932	<p data-bbox="318 683 853 706">Using MAD environment in FFJ causes side effects.</p> <p data-bbox="318 725 1150 748">Intermittent side effects occur when using MAD configurations with Sun ONE Studio 4.</p> <p data-bbox="318 767 405 789">Solution</p> <p data-bbox="318 808 841 831">Don't use Sun ONE Studio 4 with MAD configurations.</p>
4733794	<p data-bbox="318 852 991 874">ejb-name changes applied at Application node are undeployable.</p> <p data-bbox="318 894 1300 996">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 1015 405 1038">Solution</p> <p data-bbox="318 1057 376 1079">None.</p>
4725779	<p data-bbox="318 1102 1115 1124">Pre-configured Sun ONE specific property values do not appear in the editor.</p> <p data-bbox="318 1144 1293 1216">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="318 1236 405 1258">Solution</p> <p data-bbox="318 1277 1243 1329">Extract the Sun-specific descriptor XML file from the RAR and put it in the same directory as the RAR. This allows you to edit the <code>slas</code> descriptors.</p> <p data-bbox="318 1348 1293 1390">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 data-bbox="239 239 921 265">EJB name changes applied at Application node are undeployable.</p> <p data-bbox="239 282 1219 387">It is possible to change the <code>ejb-name</code> element of a bean in the context of an application by using the dialog presented when you select the View EJB Names item of an application node's contextual menu (right click menu). These changes are applied to the <code>alt-dd</code> that is created as part of the packaging. The name change is not propagated to the Sun ONE Application Server <code>alt-dd</code>.</p> <p data-bbox="239 404 325 430">Solution</p> <p data-bbox="239 447 297 468">None.</p>
4745283	<p data-bbox="239 486 839 512">If only Admin Client is installed, App Client cannot be run.</p> <p data-bbox="239 529 1219 581">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="239 598 325 624">Solution</p> <p data-bbox="239 642 1219 720">Install the App Client package. Get either a full installation (<code>appclient</code> script is under <code>SUNONE_INSTALL_ROOT/bin</code>), or get the <code>appclient</code> package from a remote machine where the Sun ONE Application Server is installed.</p> <p data-bbox="239 737 514 763">To get <code>appclient</code> package:</p> <ol data-bbox="239 781 939 807" style="list-style-type: none">1. Run <code>SUNONE_INSTALL_ROOT/bin/package-appclient[.bat]</code> <p data-bbox="239 824 856 876">This generates <code>appclient.jar</code> file in <code>SUNONE_INSTALL_ROOT/lib/appclient/appclient.jar</code></p> <ol data-bbox="239 894 1219 1102" style="list-style-type: none">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.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.)4. Configure <code>asenv.conf</code> (<code>asenv.bat</code> for Microsoft Windows) as follows: <pre data-bbox="239 1119 999 1258">%AS_INSTALL%=APPCLIENT_INSTALLED_ROOT %AS_JAVA%=Your_Installed_Java_Home %AS_IMQ_LIB%=APPCLIENT_INSTALLED_ROOT/imq/lib %AS_ACC_CONFIG%=APPCLIENT_INSTALLED_ROOT/config/sun-acc.xml %AS_WEBSERVICES_LIB%=APPCLIENT_INSTALLED_ROOT/lib</pre> <p data-bbox="239 1275 1219 1345">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 1362 749 1388">For details, see the <code>package-appclient</code> manpage.</p>

Sample Applications

- The sample applications source is set up with an ANT directory structure and applications are not Sun 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 2 sample application issues, and the associated solutions.

ID	Summary
4714439	<p data-bbox="315 725 835 755">In PetStore, cannot add a user that already exists.</p> <p data-bbox="315 767 1302 821">In the PetStore sample application, trying to add a user that already exists displays a stack trace on the screen.</p> <p data-bbox="315 833 406 862">Solution</p> <p data-bbox="315 874 378 904">None.</p>
4726161	<p data-bbox="315 923 878 953">Modified samples are not updated until redeployment.</p> <p data-bbox="315 965 1302 1019">If users attempt to deploy a sample more than once, after making small changes and repackaging the application, the following error message is displayed.</p> <p data-bbox="382 1031 606 1060" style="padding-left: 40px;">"Already Deployed"</p> <p data-bbox="315 1072 1278 1126">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="315 1138 406 1168">Solution</p> <p data-bbox="315 1180 725 1209">Choose one of the following workarounds:</p> <p data-bbox="315 1222 1288 1275">For the majority of the sample applications that use the Ant utility <code>build.xml</code> files, which include the <code>common.xml</code> file, type the following command.</p> <p data-bbox="315 1288 582 1317" style="padding-left: 40px;">% <code>asant deploy_common</code></p> <p data-bbox="315 1329 931 1359">For all other sample applications, type the following commands.</p> <p data-bbox="315 1371 521 1400" style="padding-left: 40px;">% <code>asant undeploy</code></p> <p data-bbox="315 1395 496 1425" style="padding-left: 40px;">% <code>asant deploy</code></p>

ID	Summary
4733412	<p data-bbox="239 239 951 262">Sample application converter has redundant JAR file in web module.</p> <p data-bbox="239 282 1210 357">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="239 378 1118 401">/usr/appserver/samples/ejb/stateless/converter/stateless-converter.ear</pre> <p data-bbox="239 421 1210 496">Extract this file and go to the <code>WEB-INF/lib</code> directory of the web module named stateless-converter 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="239 517 325 539">Solution</p> <p data-bbox="239 560 886 583">None. Doesn't affect functionality when running sample application.</p>
4739854	<p data-bbox="239 595 865 618">Instructions needed for deploying resources using asadmin.</p> <p data-bbox="239 638 1150 687">In the documentation for some samples, you are instructed to deploy the application using the <code>asadmin</code> command, but no explanation is provided on how to create the needed resources.</p> <p data-bbox="239 708 325 730">Solution</p> <p data-bbox="239 751 1210 826">You can deploy the application/resource by using the <code>asadmin</code> command and can get more information by referring to the sample's <code>build.xml</code> file. More information can also be found in the printout from running <code>asant deploy</code>.</p> <p data-bbox="239 847 1210 921">For JDBC/BLOB example, the following steps create the resources using <code>asadmin</code> (assuming the hostname is <code>jackiel2</code> and the username/password/port for the Admin Server is <code>admin/adminadmin/4848</code>):</p> <pre data-bbox="239 942 1210 1138">asadmin create-jdbc-connection-pool --port 4848 --host jackiel2 --password adminadmin --user admin jdbc-simple-pool --datasourceclassname com.pointbase.jdbc.jdbcDataSource --instance server1 asadmin set --port 4848 --host jackiel2 --password adminadmin --user admin server1.jdbc-connection-pool.jdbc-simple-pool.property.DatabaseName=jdbc:point base:server://localhost/sun-appserv-samples</pre>
4747534	<p data-bbox="239 1159 1168 1182">The lifecycle-multithreaded sample application asks for the admin user password 8 times.</p> <p data-bbox="239 1203 1210 1251">While deploying the sample application <code>lifecycle-multithreaded.jar</code> file using the <code>asant deploy</code> command, you are prompted to enter the admin user password eight times.</p> <p data-bbox="239 1272 325 1295">Solution</p> <p data-bbox="239 1315 297 1338">None.</p>

ID	Summary
4748535	<p data-bbox="315 239 668 263">Miscellaneous sample file issues.</p> <ol data-bbox="315 279 1119 387" style="list-style-type: none"> <li data-bbox="315 279 1058 303">1. Logging sample generates multiple log files, for the fourth logging option. <li data-bbox="315 319 896 343">2. Logging sample has a redundant <code>log.properties</code> file. <li data-bbox="315 359 1119 383">3. Instructions for the security grant in sample documentation are not fully correct. <p data-bbox="315 402 408 427">Solution</p> <ol data-bbox="315 442 1226 466" style="list-style-type: none"> <li data-bbox="315 442 1226 466">1. Close the handler before removing it. See <code>initLog()</code> method in <code>GreeterServlet.java</code>. <pre data-bbox="315 482 808 725">private void initLog(String log_type) { //Remove all handlers Handler[] h = logger.getHandlers(); for (int i = 0; i < h.length; i++) { h[i].close(); //must do this logger.removeHandler(h[i]); } ... }</pre> <p data-bbox="315 741 1300 765">Also, open file handler with an append option. See <code>addHandler()</code> in <code>GreeterServlet.java</code>. Write:</p> <pre data-bbox="315 781 882 805">Handler fh = new FileHandler(log_file, true);</pre> <p data-bbox="315 821 415 845">instead of</p> <pre data-bbox="315 861 808 885">Handler fh = new FileHandler(log_file);</pre> <ol data-bbox="315 904 1268 1085" style="list-style-type: none"> <li data-bbox="315 904 1268 1015">2. Edit the <code>build.xml</code> file as follows: <pre data-bbox="315 946 1268 1015"><fileset dir="\${src.docroot}" excludes="cvs,annontation"/> <fileset dir="\${src.docroot}" excludes="cvs,annontation,log.properties"/></pre> <li data-bbox="315 1031 1268 1085">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.
4752731	<p data-bbox="315 1100 762 1124">PointBase 4.3 replaced with PointBase 4.4.</p> <p data-bbox="315 1140 1282 1220">When downloading and installing PointBase with the samples, (http://hostname:port/samples/docs/pointbase.html) the instructions refer to PointBase 4.3. However, PointBase 4.3 as been replaced by PointBase 4.4.</p> <p data-bbox="315 1236 408 1260">Solution</p> <p data-bbox="315 1275 1239 1329">In the "Update Samples Ant Files" section, use the <code>pbttools44.jar</code> and <code>pbclient44.jar</code> files instead of the <code>pbttools43.jar</code> and <code>pbclient43.jar</code> files.</p> <p data-bbox="315 1345 1243 1399">In the "Starting PointBase" section, for PointBase downloaded and installed separately on UNIX platforms, use <code>pointbase_install_dir/tools/server/start_server</code> to start PointBase.</p>

ORB/IIOP Listener

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

ID	Summary
4743366	<p data-bbox="239 267 1222 289">The address attribute in the <code>iiop-listener</code> element in the <code>server.xml</code> file does not support ANY.</p> <p data-bbox="239 309 1222 440">In the default configuration, the Sun ONE Application Server is configured with the address value of "0.0.0.0" in the <code>iiop-listener</code> element. This default configuration does not listen on IPv6 interfaces. It only listens on all IPv4 interfaces on a system. The value of ANY in the address element of the <code>iiop-listener</code>, that would allow the server to listen on all interfaces (IPv4 or IPv6) on a system, is not supported.</p> <p data-bbox="239 460 1222 534">The ANY value in the address attribute of the <code>iiop-listener</code> element in the <code>server.xml</code> file allows for listening on all interfaces available on a system. This support includes both the IPv4 and IPv6 interfaces.</p> <p data-bbox="239 553 325 576">Solution</p> <p data-bbox="239 595 1222 644">For both IPv4 and IPv6 interfaces, use "::" in the address value of the <code>iiop-listener</code> element. This solution is only applicable to Solaris 8.0 and above.</p>
4743419	<p data-bbox="239 666 1222 715">RMI-IIOP clients will not work for IPv6 addresses where DNS address lookups fail for the IPv6 address.</p> <p data-bbox="239 734 1222 782">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="239 802 325 824">Solution</p> <p data-bbox="239 843 1222 892">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="239 914 1222 963">The optimized CORBA Util delegate, which is bundled with Sun ONE Application Server 7.0 Standard Edition, is not enabled by default.</p> <p data-bbox="239 982 1222 1058">A default installation of Sun ONE Application Server 7 does not enable the use of the high performance CORBA Util delegate. As a result, you might experience a significant decrease in performance when using the JDK-bundled or Sun ONE Application Server-bundled ORB.</p> <p data-bbox="239 1078 1222 1126">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 1145 325 1168">Solution</p> <p data-bbox="239 1187 1222 1263">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 1282 1222 1333"><jvm-options>-Djavax.rmi.CORBA.UtilClass=com.ipplanet.ias.util.orbutil.IasUtilDelegate</jvm-options></pre>
4847269	<p data-bbox="239 1355 1222 1378">The J2SE 1.3.1_X client cannot communicate with Sun ONE Application Server 7.</p> <p data-bbox="239 1397 1222 1446">When the J2SE 1.3.1_X client communicates with Sun ONE Application Server 7, the client will core dump.</p> <p data-bbox="239 1465 325 1487">Solution</p> <p data-bbox="239 1506 558 1529">Use J2SE 1.3.1_04 for the client.</p>

Internationalization (i18n)

This section describes known internalization issues and the associated solutions.

ID	Summary
4757859	<p>Multi-byte messages on the console are displayed as corrupted.</p> <p>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>Solution</p> <p>Open the <code>server.log</code> file in your browser.</p>
4761017	<p>On Solaris bundled version: Administration interface displays in English.</p> <p>Because there is no language entry for Admin Server instance on the Solaris bundled version, the Sun ONE Application Server Administration interface displays in English for the localized version.</p> <p>Solution</p> <p>Manually set the locale entry in the <code>server.xml</code> file</p>
4783129	<p>On Microsoft Windows: English about.html is displayed in the ja locale.</p> <p>When the browser is launched in a ja locale, the <code>about.html</code> page is displayed in English instead of Japanese.</p> <p>Solution</p> <p>Change the URL as follows:</p> <p>From:</p> <p><code>.../about.html</code></p> <p>To:</p> <p><code>.../ja/about.html</code></p>
4840621	<p>Archive does not work when Sun ONE Application Server is running in non-English locale.</p> <p>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>App Server Instance -> Logging -> Log rotation window -> scheduler based log rotation</p> <p>Solution</p> <ol style="list-style-type: none"> 1. Go to the following directory: <code>\$install_dir/domains/domain1/server1/bin</code> 2. Open the <code>rotatelogs</code> file. 3. Uncomment the following line: <code>#LANG=C; export LANG</code> 4. Add the following line: <code>LC_ALL=C; export LC_ALL</code> 5. Click Archive again.

ID	Summary
N/A	<p data-bbox="237 239 1025 262">On Solaris, there are limitations associated with the Netscape 4.79 browser.</p> <ul data-bbox="237 279 1249 401" style="list-style-type: none"> <li data-bbox="237 279 1249 331">• When using Netscape 4.79 on Solaris, localized JavaScript messages display garbled characters. JavaScript cannot handle UTF-8 encoding. <li data-bbox="237 348 1249 401">• When using Netscape 4.79 on Solaris in the Chinese GB18030 locale, GB18030 characters are not accepted. <p data-bbox="237 418 329 440">Solution</p> <p data-bbox="237 458 1125 480">On the Sun web site, download Netscape 6.23 or 7.0 for Solaris. This solves both problems.</p>

Documentation

This section describes the known documentation issues and associated solutions.

ID	Summary
4839719	<p data-bbox="237 769 1162 791">Developer's Guide to Web Applications: Description of cookieName property misleading.</p> <p data-bbox="237 808 1249 913">In the <i>Developer's Guide to Web Applications</i>, the documentation of the <code>sun-web.xml</code> file lists the <code>cookieName</code> property of the <code>cookie-properties</code> subelement and implies that the value of the <code>cookieName</code> property can be changed from the default value. However, the value cannot be changed; it must always be <code>JSESSIONID</code>.</p> <p data-bbox="237 930 329 953">Solution</p> <p data-bbox="237 970 297 992">None.</p>

ID	Summary
4720171	<p data-bbox="315 227 1162 262">There is no documentation explaining the use of indexed deployment directories.</p> <p data-bbox="315 274 1300 440">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="315 453 1262 586" style="list-style-type: none"><li data-bbox="315 453 1262 539">• Compile the updated class file (originally part of that JAR file) and place it first in the classpath in order to be loaded before the older classes, then allow for the Sun ONE Application Server to reload this application (as long as reload is active), OR<li data-bbox="315 557 1129 586">• Update the JAR file, create a new EAR file, and redeploy the application. <p data-bbox="315 598 1300 656">NOTE: Redeployment of the application on the Solaris platform is not necessary since there are no file locking constraints.</p> <p data-bbox="315 668 425 703">Solution</p> <p data-bbox="315 715 1300 852">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="315 869 1233 899">appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_1</pre> <p data-bbox="315 911 1300 1078">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="315 1090 1286 1147">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="315 1159 1300 1293" style="list-style-type: none"><li data-bbox="315 1159 1300 1216">• 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 data-bbox="315 1234 1210 1293">• Make the changes to the helloworld source, assemble it, and redeploy it without undeploying the previous deployment of helloworld. <p data-bbox="315 1305 1300 1390">The second option is the preferred method since this option results in the use of the incremented index number appended to the deployed application's directory name. Therefore, after a second deployment of helloworld, the directory structures would be:</p> <pre data-bbox="315 1407 1158 1459">appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_1 appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_2</pre> <p data-bbox="315 1472 1090 1501">The second deployment of helloworld would be deployed under <code>helloworld_2</code>.</p>

ID	Summary
4870888	<p data-bbox="237 239 825 262">Getting Started Guide build into the product is incorrect.</p> <p data-bbox="237 279 1249 331">The <i>Getting Started Guide</i> that is built into the product contains incorrect information regarding platforms and sizing. It also is not fully 508-compliant.</p> <p data-bbox="237 348 329 371">Solution</p> <p data-bbox="237 388 1249 440">For correct platform and sizing information, refer to the <i>Installation Guide</i> or the <i>Platform Summary</i>. For a 508-compliant version of the <i>Getting Started Guide</i>, see the version posted here:</p> <p data-bbox="282 458 522 482">http://docs.sun.com</p>
4875280	<p data-bbox="237 505 705 527">Online help has some incorrect descriptions.</p> <ul data-bbox="237 545 544 567" style="list-style-type: none"> <li data-bbox="237 545 544 567">• In the <code>asprfhls.html</code> file: <p data-bbox="237 585 1249 637">Determines whether SSL3 is enabled. For administrative purposes, deselecting SSL2 and using TLS only is recommended. (file name <code>asprfhls.html</code>)</p> <p data-bbox="237 654 782 677">If your browser does not support TLS, then select SSL3.</p> <p data-bbox="237 694 465 716">Instead, this should be:</p> <p data-bbox="237 734 1249 786">Determines whether SSL3 is enabled. For administrative purposes, deselecting SSL3 and using TLS only is recommended.</p> <p data-bbox="237 803 782 826">If your browser does not support TLS, then select SSL3.</p> <ul data-bbox="237 843 491 866" style="list-style-type: none"> <li data-bbox="237 843 491 866">• In the <code>asprflo.html</code> file: <p data-bbox="237 883 391 906">Create Console</p> <p data-bbox="237 923 986 946">(Window only). When checked, a console window is created for stderr output.</p> <p data-bbox="237 963 465 986">Instead, this should be:</p> <p data-bbox="237 1003 391 1025">Create Console</p> <p data-bbox="237 1043 996 1065">(Windows only). When checked, a console window is created for stderr output.</p>
4879044	<p data-bbox="237 1095 719 1117">Admin Guide: Compiler path is not applicable.</p> <p data-bbox="237 1135 1249 1187">On Page 196 of the Update 1 <i>Sun ONE Application Server Administrator's Guide</i>, the following is incorrect.</p> <p data-bbox="237 1204 768 1227"><code>CC=/usr/dist/share/devpro/5.x-sparc/bin/cc</code></p> <p data-bbox="237 1244 1249 1267">The above path is a Sun Internal path. Instead, the compiler's default installation directory should be:</p> <p data-bbox="237 1284 405 1307"><code>/opt/SUNWspro</code></p>
4884043	<p data-bbox="237 1331 1093 1354">Configuration File Reference: Transmit File parameter default is stated incorrectly.</p> <p data-bbox="237 1371 1249 1423">The document description for the <code>TransmitFile</code> parameter in the <code>nsfc.conf</code> file specifies the following default:</p> <p data-bbox="237 1440 365 1463">(for Unix) i.e.</p> <p data-bbox="237 1480 439 1503"><code>TransmitFile=off</code></p> <p data-bbox="237 1520 1249 1572">This is incorrect. The Transmit File check box by default is "enabled". As described in the document, it should have been disabled.</p>

ID	Summary
4890285	<p data-bbox="315 239 965 263">Some documents are not updated for the Solaris x86 platform.</p> <p data-bbox="315 281 1279 331">In documents that list supported platforms for Sun ONE Application Server, the Solaris x86 platform might not be included. For the latest platform information, see the <i>Platform Summary</i>.</p> <p data-bbox="315 348 1300 430">Getting Started Guide: Describes 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. Chapter 2 Page 25.</p> <p data-bbox="315 447 1272 498">Developer's Guide to NSAPI: Where the manual refers to SPARC, the references should be to Solaris (Solaris includes SPARC and x86). On Page 158 and 159, SPARC should not be specified.</p> <p data-bbox="315 515 408 539">Solution</p> <p data-bbox="315 557 1253 604">Refer to "Solaris x86 Limitations" on page 8 for a list of Solaris x86 limitations in this release. The documentation does not always specify these limitations.</p>
4896094	<p data-bbox="315 621 1158 645">Admin Guide: Need instructions for setting ACC_CONFIG variable at installation.</p> <p data-bbox="315 663 1279 746">There are no instructions in the documentation for setting the ACC_CONFIG variable after creating domain and server instances. After the "Deploying Applications" section in the <i>Sun ONE Application Server Administrator's Guide</i>, the following text needs to be added:</p> <p data-bbox="315 763 1300 869">In addition to the above steps, you need to modify the <code>asenv.conf</code> file. After creating the domains, set the value of the AS_ACC_CONFIG variable to the <code>sun-acc.xml</code> file located in the <code>server_instance_config</code> directory. If this value is not set properly, you might get errors while running the applications related to the Application Client Container (ACC). For example:</p> <pre data-bbox="315 887 1182 911">AS_ACC_CONFIG=/var/appserver/domains/domain1/server1/config/sun-acc.xml</pre> <p data-bbox="315 928 958 949">where <code>server1</code> is the application server instance you have created.</p>

ID	Summary
4913611	<p data-bbox="239 239 749 263">J2EE spec incompatibilities are not documented.</p> <p data-bbox="239 279 1225 329">Developer's Guide to Web Applications: The following note applies to the description of the delegate attribute:</p> <p data-bbox="239 348 1225 456">"If the delegate flag is set to its default value of false, the classloader delegation behavior complies with the Servlet 2.3 specification, section 9.7.2. If set to true, classes and resources residing in container-wide library JAR files are loaded in preference to classes and resources packaged within the WAR file, contrary to what this specification recommends.</p> <p data-bbox="239 473 1225 548">Portable programs that use this flag should not be packaged with any classes or interfaces that are a part of the J2EE specification. The behavior of a program that includes such classes or interfaces in its WAR file is undefined."</p> <p data-bbox="239 567 1150 618">Developer's Guide and the Developer's Guide to Enterprise JavaBeans Technology: The following note applies to the descriptions of the pass-by-reference element:</p> <p data-bbox="239 637 1225 711">"If the pass-by-reference flag is set to its default value of false, the passing semantics for calls to remote interfaces comply with the EJB 2.0 specification, section 5.4. If set to true, remote calls involve pass-by-reference semantics instead of pass-by-value semantics, contrary to this specification.</p> <p data-bbox="239 730 1225 864">Portable programs should not assume that a copy of the object is made during such a call, and thus that it's safe to modify the original. Nor should they assume that a copy is not made, and thus that changes to the object are visible to both caller and callee. When this flag is set, parameters and return values should be considered read-only. The behavior of a program that modifies such parameters or return values is undefined."</p>
4915451	<p data-bbox="239 887 1089 911">The definition of idle-timeout-in-seconds in the Administrator's Guide is incorrect.</p> <p data-bbox="239 927 1208 977">In <i>Sun ONE Application Server Administrator's Guide</i> Chapter 6, Monitoring the Sun ONE Application Server, the definition of idle-timeout-in-seconds includes the following sentence:</p> <p data-bbox="239 996 1225 1046">If the current size is less than <code>steady-pool-size</code>, it is increased by <code>pool-resize-quantity</code>, with a ceiling of <code>min (current-pool-size+pool + resize-quantity, max-pool-size)</code>.</p> <p data-bbox="239 1065 501 1090">This should be changed to:</p> <p data-bbox="239 1109 1225 1159">If the current size is less than <code>steady-pool-size</code>, it is increased by <code>pool-resize-quantity</code>, with a ceiling of <code>min (current-pool-size + pool-resize-quantity, max-pool-size)</code>.</p>

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

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

- 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>

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.

Revision Date	Description of Change
October 2003	Initial release of Sun ONE Application Server 7, Update 2.
January 2004	Added information on support for JDK 1.4.2.

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