

Sun Java™ System Application Server 7 Release Notes

(Formerly Sun ONE Application Server)

Version 7, Update 5

Part Number 819-0073

October 2004

These release notes contain important information available at the time of the Update 5 release of the Sun Java System Application Server, Version 7 product (formerly known as Sun™ Open Net Environment (ONE) Application Server).

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

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 5 product.

This document contains the following sections:

- [Release Notes Revision History](#)
- [About Sun ONE Application Server, Version 7, Update 5](#)
- [Bugs Fixed in This Release](#)
- [Important Information](#)
- [Known Issues and Limitations](#)
- [Redistributable Files](#)
- [How to Report Problems and Provide Feedback](#)
- [Additional Sun Resources](#)

Release Notes Revision History

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

Table 1 Revision History

Date	Description of Changes
October 2004	Initial release of Sun ONE Application Server 7, Update 5.

About Sun ONE Application Server, Version 7, Update 5

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

This section includes:

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

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

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

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

For information on what has changed for this update, see [“Bugs Fixed in This Release” on page 5](#).

Requirements and Limitations

Information on the platform requirements for the Sun ONE Application Server 7 Update 5 product can be found in the *Sun ONE Application Server Platform Summary* document at this location:

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

The following topics are addressed in this section:

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

Platform Requirements

The following table summarizes the Sun ONE Application Server 7, Update 5 requirements. For complete platform information, see the *Sun ONE Application Server Platform Summary* document at this location:

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

Table 2 Platform Requirements for Sun ONE Application Server

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

Solaris Patches

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

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

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

Solaris x86 Limitations

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

Installing or Upgrading Japanese and Simplified Chinese Sun ONE Application Server

Sun ONE Application Server 7, Update 5 does not have a separate release for Japanese or Simplified Chinese. If you have an existing installation you must upgrade to the English version of Update 5. Once you have upgraded to Update 5, your localized version of the software will contain all the latest fixed bugs.

Full instructions for installing and upgrading to Sun ONE Application Server, Update 5 are contained in the *Sun ONE Application Server Installation Guide* at this location:

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

Different versions of the software have different upgrade paths.

Installing for the First Time

If you have not previously installed Sun ONE Application Server 7, first install the Japanese or Simplified Chinese Sun ONE Application Server 7, Update 4, then upgrade to the English version of Update 5.

Upgrading from Update 3 or Update 4

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

Upgrading from Update 2 or Earlier

If you have Sun ONE Application Server 7, Update 2 or an earlier version of Sun ONE Application Server 7, first upgrade to the Japanese or Simplified Chinese version of Sun ONE Application Server 7, Update 4, then upgrade to the English version of Update 5.

Bugs Fixed in This Release

This section lists the customer-escalated issues resolved for the Sun ONE Application Server 7, Update 5 product.

Table 3 Fixed Bugs in Sun ONE Application Server 7, Update 5

Bug Number	Description
2091975	The EJB Classloader in picks up resource manager of type <code>Javax</code> and not a Java class if it has implemented that interface.
2091976	JCA will leak physical connections if <code>getMetaData()</code> throws <code>ResourceException</code> .
2091977	If the resource adapter does not support connection matching, the Sun ONE Application Server returns <code>null</code> (JCA 1.0 compliant) instead of <code>NotSupportedException</code> .
2091978	You cannot deploy a <code>.rar</code> file without an <code><authentication-mechanism></code> attribute.
5022976	Error creating realms using Ant when the command line contains spaces in the name value pair.
5039545	Option provided to disable appending of absolute URL in <code>servlet/jsp</code> container. See the information on bug 5039545 in the Known Problems for " Web Container " on page 34 for more information.
5043376	HTTP 1.1 headers should be case insensitive.
5049159	Sun ONE Application Server does not reconnect to the directory server if the directory server goes down.
5056917	Repeated reconnections using <code>CNContextFactory</code> results in a hang or an out of memory error.
5063790	Redirection of requests from HTTP to HTTPS not working when using SSL.
5063854	Able to access the last session by sending malformed cookies.
6152742	JDBC connection pool does not properly release connections.
6155154	Client authentication not working with Microsoft Windows IIS 5.0 web server plug-in.
6155446	Transaction processing could hang a server instance if the transaction logs become corrupted.
6156869	No documentation on migrating from Sun ONE Message Queue 3.0.1 to Sun ONE Message Queue 3.5.

Important Information

This section covers the following topics:

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

Documentation

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

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

This section addresses the following topics:

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

Sun ONE Application Server 7 Documentation

In addition to these release notes, the Sun ONE Application Server 7, Update 5 product includes an entire set of documentation. The Sun ONE Application Server 7 documents that were updated in Update 5 have new part numbers and are indicated in the following list as **REVISED**. Documents that were not changed from previous update releases have the same part numbers.

NOTE	For significant issues, a document might be revised. In this case, the revised version will be posted to this site. The date last updated is displayed with the copyright information in the HTML version of the document.
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The Sun ONE Application Server 7, Update 5 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 REVISÉD*—(PN 819-0070) Provides a comprehensive, table-based summary of supported operating systems, JDBC drivers and databases, web servers, directory servers, browsers, and associated software packages.
- *Getting Started Guide*—(PN 817-2170-10) Describes how to get started with the Sun ONE Application Server 7 product. Focuses on initial developer exposure; is also suited for users evaluating the product.
- *Installation Guide*—(PN 817-5601-10) Provides instructions for installing or upgrading the Sun ONE Application Server software and its components, such as sample applications, the Administration interface, and the Sun™ Open Net Environment (ONE) Message Queue.
- *Migrating and Redeploying Server Applications*—(PN 817-2181-10) Provides instructions for migrating your applications to the new Sun ONE Application Server 7 programming model, specifically from iPlanet™ Application Server 6.x and from Netscape Application Server 4.0. Includes a sample migration.
- *Developer's Guide*—(PN 817-2171-10) The centerpiece of the developer's collection, this document provides general information about how to create J2EE applications intended to run on the Sun ONE Application Server that follow the open Java standards model for servlets, Enterprise JavaBeans™ (EJBs™), JavaServer Pages (JSPs), and other J2EE components. Topics include: J2EE application design, security, deployment, debugging, and creating lifecycle modules. A comprehensive Sun ONE Application Server glossary is included.
- *Developer's Guide to Web Applications*—(PN 817-2172-10) Describes how to use servlets and JavaServer Pages (JSPs) within J2EE applications, and how to use SHTML and CGI. Topics include results caching, JSP precompilation, session management, security, and deployment.
- *Developer's Guide to Enterprise Java Beans Technology*—(PN 817-2175-10) Describes how to develop and deploy various types of enterprise beans in the Sun ONE Application Server environment. Topics include container-managed persistence, read-only beans, and the XML and DTD files associated with enterprise beans.
- *Developer's Guide to J2EE Features and Services*—(PN 817-2177-10) Describes J2EE features such as Java Database Connectivity (JDBC), Java Naming and Directory Interface (JNDI), Java Transaction Service (JTS), Java Message Service (JMS), and JavaMail.
- *Developer's Guide to NSAPI*—(PN 817-2177-10) Describes how to create NSAPI plug-ins.

- *Developer's Guide to Web Services*—(PN 817-2174-10) Describes how to develop and deploy web services in the Sun ONE Application Server environment.
- *Developer's Guide to Clients*—(PN 817-2173-10) Describes how to develop and deploy Application Client Container (ACC) clients that access J2EE applications on Sun ONE Application Server 7.
- *Administrator's Guide*—(PN 817-3652-10) The centerpiece of the administrator's collection, this document provides information and instructions on the configuration, management, and deployment of the Sun ONE Application Server subsystems and components, from both the Administration interface and the command-line interface. A comprehensive Sun ONE Application Server glossary is included.
- *Administrator's Configuration File Reference*—(PN 817-2178-10) Describes the contents of the Sun ONE Application Server configuration files, such as the `server.xml` file.
- *Administrator's Guide to Security*—(PN 817-2179-10) Describes how to configure and administer security for the Sun ONE Application Server operational environment. Includes information on general security, certificates, and SSL/TLS encryption. HTTP server-based security is also addressed.
- *J2EE CA SPI Administrator's Guide*—(PN 817-2254-10) Describes how to configure and administer JCA SPI Implementation features for the Sun ONE Application Server environment. Topics include the Administration Tool, Pooling Monitor, deploying a JCA connector, and sample connectors and sample applications.
- *Performance Tuning Guide*—(PN 817-2180-10) Describes how and why to tune your Sun ONE Application Server to improve performance.
- *Error Messages Reference*—(PN 817-2182-10) Describes all Sun ONE Application Server error messages.
- *Manpages for Command-line Interface*—Provides XML pages written in manpage style for all command-line interface commands.
- *Manpages for Utilities*—Provides XML pages written in manpage style for all Sun ONE Application Server utility commands.
- *Admin interface online help*—Provides content-specific online help for the Sun ONE Application Server graphical Administration interface.

Referenced Documentation

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

Sun ONE Message Queue Documentation

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

<http://docs.sun.com/db?p=prod/sl.slmsgqu>

Sun Java Studio 5, Standard Edition Documentation

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

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

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

Accessibility

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

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

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

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/adminui/adminGUI_war/help`

Restart the Admin Server for changes to take effect.

Upgrade Notes

Full instructions for upgrading to Sun ONE Application Server, Update 5 product are contained in the *Sun ONE Application Server Installation Guide* at this location:

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

Known Issues and Limitations

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

NOTE	If a problem statement does not specify a particular platform, the problem applies to all platforms.
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This information is organized into the following sections:

- [Installation, Upgrade, and Uninstallation](#)
- [Server Startup and Shutdown](#)
- [Database Driver](#)
- [Web Container](#)
- [EJB Container](#)
- [Container-Managed Persistence](#)
- [Message Service and Message-Driven Beans](#)
- [Java Transaction Service \(JTS\)](#)
- [Application Deployment](#)
- [Verifier](#)
- [Configuration](#)
- [Deployment Descriptors](#)
- [Monitoring](#)
- [Server Administration](#)

- [Sun ONE Studio 4 Plug-in](#)
- [Sample Applications](#)
- [ORB/IIOP Listener](#)
- [Internationalization \(i18n\)](#)
- [Documentation](#)

Installation, Upgrade, and Uninstallation

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

ID	Summary
4403166	<p data-bbox="318 725 1296 777">On Microsoft Windows, package/path/application names longer than 255 characters will fail to deploy applications.</p> <p data-bbox="318 795 1296 873">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="318 890 711 913" style="list-style-type: none"> • Example of a long application name: <p data-bbox="318 930 1139 953">J2EE application name as <code>servlet_jsh_HttpServletRequestWrapper.ear</code></p> <ul data-bbox="318 970 689 992" style="list-style-type: none"> • Example of a long package name: <p data-bbox="318 1010 772 1032">The servlet is located in the following package:</p> <pre data-bbox="318 1050 1308 1164">servlet_jsh_HttpServletRequestWrapper_1\ servlet_jsh_HttpServletRequestWrapper_war\WEB-INF\classes\tests\ javax_servlet_http\HttpServletRequestWrapperHttpServletRequestWrapperCon structorTestServlet.class</pre> <ul data-bbox="318 1182 648 1204" style="list-style-type: none"> • Example of a long path name: <p data-bbox="318 1222 1179 1244">Sun ONE Application Server is installed as <code>drive \:> Sun \ApplicationServer</code></p> <p data-bbox="318 1262 408 1284">Solution</p> <p data-bbox="318 1302 632 1324">Consider the following solutions:</p> <ol data-bbox="318 1341 1296 1506" style="list-style-type: none"> 1. Make a shorter directory structure during installation. For example, <code>drive:>App\</code> instead of the default <code>drive:\>Sun\Apsserver7</code>. 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>. 3. Have shorter package names, path names, and application names.

ID	Summary
4687768	On Solaris setup-SDK/JDK, an error occurs when installing in command-line mode on a machine without Xwindows. 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. Solution <ol style="list-style-type: none">1. Install X Windows support packages temporarily, removing them after installing the Sun ONE Application Server product.2. Install the Sun ONE Application Server packages using the <code>pkgadd</code> command and create the initial domain using <code>asadmin</code> commands.
4719600	Warning messages occur during installation. During installation, some invalid error messages might occur. For example: <pre>WARNING: Couldn't flush system prefs: java.util.prefs.BackingStoreException: Couldn't get file lock. WARNING: Could not lock System prefs.Unix error code -223460600.</pre> Solution 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.
4737663	On Solaris, if you install both the package-based install and regular install, there is conflict. 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: <pre>SEVERE: JMS5024: JMS service startup failed. SEVERE: CORE5071: An error occurred during initialization</pre> In particular, the default domain and instance names are the same for both of these installations. Solution Follow the instructions in the "JMS Administration" chapter of the <i>Sun ONE Application Server Administrator's Guide</i> .

ID	Summary
4742038	<p data-bbox="315 244 1290 291">Sun ONE Application Server does not start if the install directory contains non alpha-numeric characters.</p> <p data-bbox="315 314 1290 418">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="315 435 408 460">Solution</p> <p data-bbox="315 477 1290 522">During installation, specify a directory where names contain only alphanumeric, dash, or underscore characters.</p>
4742828	<p data-bbox="315 545 825 569">Silent installer is not checking user permissions.</p> <p data-bbox="315 586 1290 690">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="315 708 408 732">Solution</p> <p data-bbox="315 749 986 774">Make sure that silent installation is being run as the appropriate user.</p>
4741190	<p data-bbox="315 796 1258 843">For Solaris, Installer accepts JDK_LOCATION value even if the location contains an earlier version (earlier than Solaris 1.2).</p> <p data-bbox="315 861 1290 992">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="315 1010 408 1034">Solution</p> <p data-bbox="315 1052 1008 1076">Before starting the installation program, unset JAVA_HOME as follows:</p> <p data-bbox="315 1093 622 1117">(On ksh): unset JAVA_HOME</p> <p data-bbox="315 1117 662 1142">(On csh): unsetenv JAVA_HOME</p>
4742171	<p data-bbox="315 1170 1290 1216">Installing a development installation over an existing evaluation installation in silent mode does not report an error.</p> <p data-bbox="315 1234 1290 1310">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="315 1328 408 1352">Solution</p> <p data-bbox="315 1369 1290 1420">Uninstall existing evaluation installations before installing a new development installation in the same location.</p>

ID	Summary
4742552	<p data-bbox="239 244 1222 291">Selecting Application Server and Sun ONE Studio 4 Enterprise Edition for Java components in the same installation session in command-line and silent mode does not work correctly.</p> <p data-bbox="239 314 1222 444">Affects development and operations installations. While running installation in command-line or silent mode, you can choose to install both Application Server and Support for Sun ONE Studio 4 Enterprise Edition for Java components during the same installation session (in GUI mode, these components are mutually exclusive). The installer does not process component dependency correctly and tries to install the Administration Client component instead of the selected Sun ONE Application Server component.</p> <p data-bbox="239 465 329 487">Solution</p> <p data-bbox="239 505 1222 552">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.</p>
N/A	<p data-bbox="239 574 1222 652">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="239 673 1222 774">Affects Solaris development and operations installer. If an installed Sun ONE Message Queue 3.0 is detected on the system, you are given the option of automatically upgrading this installation to version 3.0.1. If this option is chosen, the resulting Sun ONE Message Queue 3.0.1 installation will be uninstalled during Sun ONE Application Server uninstallation.</p> <p data-bbox="239 795 329 817">Solution</p> <p data-bbox="239 835 1222 881">To preserve the Sun ONE Message Queue installation after the Sun ONE Application Server is uninstalled:</p> <ol data-bbox="239 904 1222 1034" style="list-style-type: none"><li data-bbox="239 904 1222 927">1. Exit the installer when offered the automatic upgrade choice.<li data-bbox="239 944 1222 991">2. Upgrade Sun ONE Message Queue to version 3.0.1 according to Sun ONE Message Queue documentation.<li data-bbox="239 1008 1222 1031">3. Run Sun ONE Application Server installation again.
4746410	<p data-bbox="239 1055 1222 1102">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="239 1124 1222 1203">When attempting to install the Sun ONE Application Server on Solaris (using the package-based installer) in non-default locations, the installation program does not check for disk space in the specified target directory. Instead, it checks for disk space only in the default location (<code>/opt</code>).</p> <p data-bbox="239 1223 329 1246">Solution</p> <p data-bbox="239 1263 1222 1345">Before starting the installation, make sure that you have adequate disk space (85 MB) in <code>/opt</code> even if you do not plan to install in <code>/opt</code>. In addition, make sure you have adequate disk space (85 MB) in the target directory.</p>

ID	Summary
4748404	<p data-bbox="318 244 1300 291">On Microsoft Windows XP, cannot incrementally install sample applications and PointBase 4.2 components.</p> <p data-bbox="318 314 1265 418">This issue affects the Windows XP platform. If you try to incrementally install Sample Applications and/or PointBase 4.2 components over an installed Sun ONE Application Server component, the installer does not correctly detect the existing Sun ONE Application Server installation and reports <code>Application Server Not Found</code>. Installation does not proceed.</p> <p data-bbox="318 435 408 460">Solution</p> <p data-bbox="318 477 1279 552">Install sample applications and PointBase 4.2 components together with the Sun ONE Application Server component. If the Sun ONE Application Server is already installed on the system, uninstall it and run installation again, this time selecting all necessary components.</p>
4748455	<p data-bbox="318 574 843 598">Directory error occurs during generic silent install.</p> <p data-bbox="318 616 1229 690">This issue affects silent installation on all platforms. If the installer finds a problem with a given installation directory, the generic error message <code>Invalid Installation Directory</code> is reported. This error message covers the following situations:</p> <ul data-bbox="318 708 968 772" style="list-style-type: none"><li data-bbox="318 708 676 732">• Selected directory is not writable.<li data-bbox="318 749 968 772">• Selected directory string is empty or contains space characters. <p data-bbox="318 789 408 814">Solution</p> <p data-bbox="318 831 1222 855">Check the supplied installation directory value for both issues to determine the cause of error.</p>
4749033	<p data-bbox="318 878 1210 925">On Microsoft Windows XP, cannot uninstall standalone admin client installation using uninstaller.</p> <p data-bbox="318 942 1293 1017">This issue affects a standalone admin client installation on the Windows XP platform. If user tries to uninstall a standalone admin client through the provided uninstaller, uninstallation tries to uninstall an incorrect set of components and hang.</p> <p data-bbox="318 1034 408 1058">Solution</p> <p data-bbox="318 1076 1293 1211">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="318 1234 1229 1281">Samples documentation is not published to initial server instance if Sample Application component has been incrementally installed.</p> <p data-bbox="318 1298 1300 1433">This issue affects the development and operations installer on all platforms. If sample applications are installed in a separate installation session over an installed Sun ONE Application Server, the sample documentation will not be published to the initial server instance and will not be accessible through the <code>http://hostname:port/samples</code> URL. However, documentation is installed on the file system and can be accessed locally at this location: <code>file:///install_root/samples/index.html</code></p> <p data-bbox="318 1451 408 1475">Solution</p> <p data-bbox="318 1492 698 1517">Access samples documentation locally.</p>

ID	Summary
4754256	<p data-bbox="239 244 1220 295">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="239 314 1220 418">If an existing Sun ONE Message Queue 3.0 package has been detected on the system, the installer offers to upgrade this installation to version 3.0.1 which can be used by the Sun ONE Application Server. During this upgrade operation, the existing 3.0 Solaris packages is removed, resulting in the removal of the following configuration files:</p> <pre data-bbox="239 437 692 491">/etc/imq/passwd /etc/imq/accesscontrol.properties</pre> <p data-bbox="239 510 1220 560">If these files have been modified, those modifications will be lost and the resulting Sun ONE Message Queue 3.0.1 installation will contain the default configuration values.</p> <p data-bbox="239 579 341 604">Solution</p> <p data-bbox="239 623 1220 694">Create a backup copy of any user-modified files and restore the backup copies of the files after the upgrade has been completed. For more details, consult <i>Sun ONE Message Queue 3.0 Installation Guide</i>.</p>

ID	Summary
4754824	<p data-bbox="318 244 1176 267">On Solaris, an installer error message occurs while running installation from a CD.</p> <p data-bbox="318 284 1305 470">When a volume is inserted into the CD-ROM drive, Solaris volume management assigns it the next symbolic name. For example, if two CD-ROMs match the default regular expression, they are named <code>cdrom0</code> and <code>cdrom</code>. Any that match the added regular expression would be named starting with <code>cdrom2</code>. This is documented on <code>vold.conf</code> man page. Every time you install the Sun ONE Application Server from the CD, the CD-ROM mount point appends a number after the label name. The first time the CD is mounted everything goes well. On subsequent mounts, the following error message occurs when the installer starts:</p> <pre data-bbox="318 493 1305 574">IOException:java.io.FileNotFoundException: /cdrom/appserver7 No such file or directory) while loading default flavormap.properties file URL:file:/cdrom/appserver7#4/AppServer7/pkg/jre/lib/flavormap.properties</pre> <p data-bbox="318 591 408 614">Solution</p> <p data-bbox="318 631 1186 654">Installer functionality is not affected in any way. However, the following workaround exists:</p> <ol data-bbox="318 671 1248 847" 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="358 782 554 805"># mkdir /cdrom</pre> 3. Mount the CD-ROM drive. <p data-bbox="318 864 1285 916">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="318 933 1182 956">If running File Manager, a separate File Manager window displays the CD-ROM contents.</p> <ol data-bbox="318 973 1282 1373" 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="358 1072 825 1095"># 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="358 1182 839 1204"># ps -ef grep vold grep -v grep</pre> 6. Stop the <code>vold</code> process by entering: <pre data-bbox="358 1269 743 1291"># kill -15 process_ID_number</pre> 7. Mount the CDRom manually: <pre data-bbox="358 1350 1086 1373"># mount -F hsfs -r ro /dev/dsk/cxytd0sz /cdrom/cdrom0</pre> <p data-bbox="318 1390 1300 1442">where x is the CD-ROM drive controller number, y is the CD-ROM drive SCSI ID number, and z is the slice of the partition on which the CD-ROM is located.</p> <p data-bbox="318 1459 1286 1512">You have now mounted the CD-ROM drive. Refer to <i>Installing and Setting Up CD One on Solaris</i> for procedures on installation.</p>

ID	Summary
4755165	<p data-bbox="239 239 1200 291">On Microsoft Windows, Installer functionality is affected if administrator user credentials are supplied only when running setup.exe.</p> <p data-bbox="239 309 1200 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="239 456 1200 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.
	<p data-bbox="239 543 328 569">Solution</p> <p data-bbox="239 586 936 604">Log in as user with administrator privileges when performing installation.</p>
4757687	<p data-bbox="239 621 1218 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="239 716 1218 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="239 951 328 977">Solution</p> <p data-bbox="239 994 1193 1046">Uninstall the standalone Administration Client before attempting to install the Sun ONE Application Server on the same Solaris system.</p> <p data-bbox="239 1064 1218 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="317 244 1305 295">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="317 314 1305 390">This issue affects Solaris package-based installation on a Solaris platform. If the following combination of custom directory locations has been selected, installation fail due to inconsistent group ownership information for the same directory:</p> <ul data-bbox="317 409 736 473" style="list-style-type: none">• Installation directory: <i>install_dir</i>• Configuration directory: <i>install_dir/etc</i> <p data-bbox="317 493 1229 543">The pkgadd log file in the <code>/var/sadm/install/logs</code> directory will contain following error message:</p> <pre data-bbox="317 562 943 612">pkgadd: ERROR: duplicate pathname /install_dir/etc pkgadd: ERROR: unable to process pkgmap</pre> <p data-bbox="317 631 408 656">Solution</p> <p data-bbox="317 675 958 699">Select a custom configuration directory other than <i>install_dir/etc</i>.</p>
4724612	<p data-bbox="317 718 1258 769">On Solaris SPARC and Linux, PointBase shell scripts fail if run by someone other than the installing user.</p> <p data-bbox="317 788 1229 838">This issue affects only the evaluation installation. All PointBase shell scripts are set to execute permission only for the installing user.</p> <p data-bbox="317 857 408 881">Solution</p> <p data-bbox="317 900 1258 951">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="317 970 1305 1020">On Solaris, the Sun ONE Message Queue package SUNWiqsup is not removed during Message Queue upgrade process.</p> <p data-bbox="317 1039 1305 1116">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="317 1135 1305 1211">There is a minor cleanup issue where the Solaris installer does not remove one of the Solaris packages (SUNWiqsup) for Sun ONE Message Queue 3.0 as part of this upgrade process. The presence of this package is harmless and does not affect Sun ONE Message Queue or Sun ONE Application Server 7.</p> <p data-bbox="317 1230 408 1255">Solution</p> <p data-bbox="317 1274 1122 1298">Manually remove the SUNWiqsup package using the following command (as root):</p> <pre data-bbox="317 1317 551 1341"># pkgrm SUNWiqsup</pre>

ID	Summary
4890289	<p data-bbox="239 239 1115 265">On Window 2000 Pro, the uninstaller is not able to find the JDK to run uninstallation.</p> <p data-bbox="239 282 915 309">On Windows 2000 Pro, uninstallation fails with the following message:</p> <p data-bbox="239 326 1186 439">The uninstaller could not locate a suitable j2sdk to run the uninstalation program. Run the uninstalation again with the -javahome option set to the directory in which j2sdk 1.4.0_02 or greater is installed. Press Enter to exit.</p> <p data-bbox="239 456 329 482">Solution</p> <p data-bbox="239 499 579 526">Use the -javahome JDK location.</p>
5017630	<p data-bbox="239 543 1205 569">When upgrading on Windows, an error is displayed and the upgrade fails if SNMP is running.</p> <p data-bbox="239 586 329 612">Solution</p> <p data-bbox="239 630 646 656">Stop the SNMP Service before upgrading:</p> <ol data-bbox="239 664 793 769" style="list-style-type: none"> 1. From the Control Panel, choose Administrative Tools. 2. Choose Services. 3. Scroll down to the SNMP Service and stop it.
5018162	<p data-bbox="239 786 1225 838">On Linux, two Message Queue packages are installed if you are doing a full installation and if a qualified Message Queue is already installed.</p> <p data-bbox="239 855 329 881">Solution</p> <p data-bbox="239 899 1205 1029">Due to a bug in the Linux <code>rpm</code> utility in 4.2.1.xx, the installed Sun ONE Message Queue (identified as <code>img</code>) <code>rpm</code> is not recognized. Because of this problem, the Sun ONE Application Server installer will install a second version of the Sun ONE Message Queue <code>rpm</code>. To work around this, either install the 4.2.0.69 version of <code>rpm</code> on your system or uninstall Message Queue before installing the application server.</p> <p data-bbox="239 1046 1225 1098">Typically 4.2.1.xx version of <code>rpm</code> is present in Red Hat Enterprise Linux Advanced Server 3.0 unless the <code>rpm</code> package was upgraded on prior versions of the Linux system.</p>
5034338	<p data-bbox="239 1116 922 1142">On Linux, upgraded packages are not removed by the uninstaller.</p> <p data-bbox="239 1159 329 1185">Solution</p> <p data-bbox="239 1203 651 1229">Remove the packages manually by typing:</p> <pre data-bbox="287 1246 679 1267">rpm -e --nodeps SUNWas* packages</pre>

ID	Summary
5050621	<p data-bbox="318 244 1305 374">On Linux, if Sun ONE Application Server 7 Update 3 was installed as a part of Sun Java Enterprise 2004Q2, and you then upgrade the Sun ONE Application Server, a problem appears. The subsequent attempt to create a new server instance and to install Sun Java System Identity Server 2004Q2 with SSL enabled Directory Server will fail and the newly created server instance will crash with a SIGSEGV error upon restart.</p> <p data-bbox="318 395 408 420">Solution</p> <p data-bbox="318 435 1305 513">For the instance of the application server created after upgrading Sun ONE Application Server, edit the server instance's <code>server.xml</code> file and enter the correct location for the <code>jss3.jar</code> in <code>server-classpath</code> as follows:</p> <p data-bbox="318 531 579 555">Change the following lines:</p> <pre data-bbox="365 574 1053 644"> <java-config java-home="/usr/jdk/entsys-j2se" server-classpath="/usr/share/lib/mps/secv1/jss3.jar <--- </pre> <p data-bbox="318 664 351 689">To:</p> <pre data-bbox="365 708 1100 777"> <java-config java-home="/usr/jdk/entsys-j2se" server-classpath="//opt/sun/private/share/lib/jss3.jar <---- </pre> <p data-bbox="318 795 1196 819">To prevent this problem from occurring in future, modify the following template files as well:</p> <pre data-bbox="318 838 1118 907"> \${APPSERVER_INSTALL_DIR}/lib/install/template/server.xml.template.admin \${APPSERVER_INSTALL_DIR}/lib/install/template/server.xml.template </pre> <p data-bbox="318 925 708 949">In these template files, change the lines:</p> <pre data-bbox="365 968 993 1038"> <java-config java-home="%%%JAVA_HOME%%%" server-classpath="/usr/share/lib/mps/secv1/jss3.jar </pre> <p data-bbox="318 1055 351 1079">To:</p> <pre data-bbox="365 1098 1018 1168"> <java-config java-home="%%%JAVA_HOME%%%" server-classpath="/opt/sun/private/share/lib/jss3.jar </pre> <p data-bbox="168 1185 1305 1237">N/A On Red Hat Enterprise Linux AS 3.0 you must install <code>compat-libstdc++</code> (standard C++ libraries for backwards compatibility) before installing Sun ONE Application Server.</p> <p data-bbox="318 1255 408 1279">Solution</p> <p data-bbox="318 1296 1305 1347">Install <code>compat-libstdc++</code> before installing Sun ONE Application Server. These libraries are included on the Red Hat Enterprise Linux AS 3.0 CD set.</p>

ID	Summary
N/A	<p data-bbox="239 239 1253 270">Installing Sun ONE Application Server on Windows may give the following message:</p> <p data-bbox="239 279 1253 310">“Error writing native components to disk. Aborting wizard”</p> <p data-bbox="239 319 1253 350">Solution</p> <ol data-bbox="239 359 1253 517" style="list-style-type: none"> <li data-bbox="239 359 1253 447">1. If you have a file named <code>C:\Documents</code>, it interferes when processing the system property <code>user.home</code> (typically points to <code>C:\Documents and Settings\your_name</code>). Remove or rename <code>C:\Documents</code>. <li data-bbox="239 456 1253 517">2. Additionally, the environment variable <code>TEMP</code> must be set and must point to an existing writable directory.
5063872	<p data-bbox="239 526 1253 586">The <code>app_server_install/samples/common.properties</code> file is overwritten with null values when you upgrade Sun ONE Application Server 7 using the upgrade installer.</p> <p data-bbox="239 595 1253 626">Solution</p> <p data-bbox="239 635 1253 696">Back up the <code>common.properties</code> file before you upgrade to the latest Sun ONE Application Server 7, or add the values to <code>common.properties</code> manually after upgrading.</p> <p data-bbox="239 704 1253 736">Sample <code>common.properties</code> file for the Microsoft Windows platform:</p> <pre data-bbox="239 744 1253 1159">com.sun.aas.javaRoot=C:/Sun/AppServer7/jdk admin.host=<machinename> admin.port=4848 com.sun.aas.imqLib=C:/Sun/AppServer7/imq/lib com.sun.aas.installRoot=C:/Sun/AppServer7 admin.user=admin #admin password will not be saved as default. User can enter it and save it manually. #admin.password= sunone.instance=server1 com.sun.aas.webServicesLib=C:/Sun/AppServer7/share/lib com.sun.aas.pointbaseRoot=C:/Sun/AppServer7/pointbase sunone.instance.port=<port> sunone.instance=server1 admin.user=admin admin.port=4848</pre> <p data-bbox="239 1168 1253 1199">Sample <code>common.properties</code> file for the Linux platform:</p> <pre data-bbox="239 1208 1253 1550">com.sun.aas.pointbaseRoot=/export/appserver7ur5/pointbase com.sun.aas.webServicesLib=/export/appserver7ur5/share/lib com.sun.aas.imqLib=/opt/imq/lib com.sun.aas.installRoot=/export/appserver7ur5 com.sun.aas.javaRoot=/usr/java/j2sdk1.4.2_04 #admin password will not be saved as default. User can enter it and save it manually. #admin.password= admin.host=<machinename> sunone.instance=server1 sunone.instance.port=80 admin.user=admin admin.port=4848</pre>

ID	Summary
5063872 (Continued)	<p data-bbox="314 225 1338 260">Sample <code>common.properties</code> file for the Solaris platform:</p> <pre data-bbox="314 260 1338 619">com.sun.aas.pointbaseRoot=/opt/SUNWappserver7/pointbase com.sun.aas.webServicesLib=/usr/share/lib com.sun.aas.imqLib=/usr/share/lib/imq com.sun.aas.installRoot=/opt/SUNWappserver7 com.sun.aas.javaRoot=/usr/j2se #admin password will not be saved as default. User can enter it and save it manually. #admin.password= admin.host=<machinename> sunone.instance=server1 sunone.instance.port=81 admin.user=admin admin.port=4848</pre>

ID	Summary
6172916	<p data-bbox="239 244 1225 296">Sun ONE Application Server fails to start after you use the upgrade installer to upgrade the Sun ONE Application Server.</p> <p data-bbox="239 314 739 335">On the Solaris platform, the following error appears:</p> <pre data-bbox="239 354 1210 406">SEVERE (14394): JMS5024: JMS service startup failed. CORE5071: An error occurred during initialization</pre> <p data-bbox="239 423 725 444">On the Linux platform, the following error appears:</p> <pre data-bbox="239 463 1162 541">cp: cannot stat `/etc/opt/imq/passwd': No such file or directory cp: cannot stat `/etc/opt/imq/accesscontrol.properties': No such file or directory Error backing up!</pre> <p data-bbox="239 558 1225 637">This problem appears because the upgrade installer does not check which version of Message Queue is installed. It automatically installs Sun ONE Message Queue 3.0.1 SP3, which is shipped with Sun ONE Application Server 7.</p> <p data-bbox="239 654 1225 706">If Sun Java System Message Queue 3.5 is installed on the machine, the upgrade installer downgrades it to Message Queue 3.0.1SP3.</p> <p data-bbox="239 723 1225 802">On the Microsoft Windows platform, the problem only occurs if Sun Java System Message Queue 3.5 is installed in the same directory in which the Sun ONE Application Server installer installs. No error appears.</p> <p data-bbox="239 819 325 840">Solution</p> <p data-bbox="239 857 668 878">If you have not yet run the upgrade installer:</p> <ol data-bbox="239 895 1225 1142" style="list-style-type: none"> <li data-bbox="239 895 1225 947">1. After downloading the product and untarring the binaries, go to the <i>untarred_location/sun-appserver7/upgrade</i> directory. <li data-bbox="239 965 1225 1142">2. Open the <code>package-list</code> file and remove all the package names associated with Message Queue: <ul data-bbox="239 1008 1225 1142" style="list-style-type: none"> <li data-bbox="239 1008 711 1029">• On the Microsoft Windows platform: <code>imq.zip</code> <li data-bbox="239 1046 1225 1098">• On the Solaris Sparc and x86 platforms: <code>SUNWiqdoc</code>, <code>SUNWiqfs</code>, <code>SUNWiqjx</code>, <code>SUNWiqr</code>, <code>SUNWiqu</code>, <code>SUNWiquc</code>, and <code>SUNWiqum</code> <li data-bbox="239 1116 539 1137">• On the Linux platform: <code>imq</code>. <p data-bbox="239 1159 704 1180">If you already upgraded using upgrade installer:</p> <p data-bbox="239 1197 939 1218">For package-based installations on the Solaris Sparc and x86 platforms:</p> <ol data-bbox="239 1236 1225 1576" style="list-style-type: none"> <li data-bbox="239 1236 1225 1288">1. At the command prompt, remove the Message Queue instances by typing <code>rm -rf /var/imq/instances</code>. <li data-bbox="239 1305 1225 1539">2. Use <code>pkgrm</code> to remove the following packages: <pre data-bbox="239 1348 1082 1539">application SUNWiqdoc Sun ONE Message Queue Javadoc and Examples application SUNWiqfs Sun ONE Message Queue JNDI FS Provider application SUNWiqjx Sun ONE Message Queue JAXM Client Runtime Package application SUNWiqr Sun ONE Message Queue Root Package application SUNWiqu Sun ONE Message Queue /usr Package application SUNWiquc Sun ONE Message Queue Client Runtime Package application SUNWiqum Sun ONE Message Queue JMS/SOAP Msg Transformer Runtime</pre> <li data-bbox="239 1557 1225 1576">3. Use <code>pkgadd</code> to reinstall the correct versions of the packages you removed in the previous step.

ID	Summary
6172916 (Continued)	<p>For Linux RPM installations:</p> <ol style="list-style-type: none"> 1. Remove the Message Queue instance by typing <code>rm -rf /var/imq/instances</code>. 2. Remove the Message Queue installation by typing <code>rpm -e imq</code>. 3. Install the correct version of Message Queue by typing <code>rpm -i rpm_location/imq-xxx.rpm</code> where <code>xxx</code> is the correct version of Message Queue. <p>For Microsoft Windows installations, and for zip, tar, and evaluation installations on all platforms:</p> <ol style="list-style-type: none"> 1. Remove the Message Queue installation by typing <code>rmdir app_server_install_dir/imq</code>. 2. Unzip the correct version of Message Queue from its downloaded location and run the installer.

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="235 260 828 286">On Solaris, License expiration information is not shown.</p> <p data-bbox="235 303 1249 390">Affects Solaris SPARC evaluation licenses. Warning information relating to imminent expiration of license (within 14 days or less of expiration) would not be reported through the command-line interface and browser-based interfaces. The warnings would, however, appear in the server log files.</p> <p data-bbox="235 399 328 425">Solution</p> <p data-bbox="235 442 492 468">Check the server log files.</p>
4738648	<p data-bbox="235 486 806 512">JMS service/Sun ONE Application Server startup fails.</p> <p data-bbox="235 529 1249 581">If the JMS provider (Sun ONE Message Queue broker) has a large number of undelivered persistent messages, a Sun ONE Application Server initialization failure might occur due to following problems:</p> <ol data-bbox="235 598 1249 624" style="list-style-type: none"> <li data-bbox="235 598 1249 624">1. As it tries to load all the pending messages, the MQ broker might run out of memory and abort. <p data-bbox="235 633 328 659">Solution</p> <p data-bbox="235 677 1249 729">Use more Java heap space for the MQ broker process. To do this, set the <code>Start Arguments</code> attribute of the JMS service to <code>-vmargs -Xmx256m</code>.</p> <p data-bbox="235 746 1249 798">The procedure for setting this attribute is described in the "Using the JMS Service" chapter of the <i>Sun ONE Application Server Administrator's Guide</i>.</p> <ol data-bbox="235 815 1249 868" style="list-style-type: none"> <li data-bbox="235 815 1249 868">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="235 876 328 902">Solution</p> <p data-bbox="235 920 1249 1006">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="318 244 1061 267">Firewall rules might cause Sun ONE Application Server startup failures.</p> <p data-bbox="318 284 1305 444">If you have a personal firewall installed, you might experience this problem. The presence of strict firewall rules on the same machine as a Sun ONE Application Server installation might cause startup failures of the Admin Server and App Server instances. Specifically, the Admin Server and App Server instances attempt to establish local connections within the Sun ONE Application Server environment. Since these connection attempts access ports using the host name of the system rather than localhost, local firewall rules might block such attempts.</p> <p data-bbox="318 461 1305 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="318 638 1290 861" style="list-style-type: none"> <li data-bbox="318 638 1290 791">• An attempt to start the Sun ONE Application Server using the Microsoft Windows program group item “Start Application Server” fails with this message: <pre data-bbox="358 708 1115 791"> Could not start the instance: domain1:admin-server server failed to start: abnormal subprocess termination ... </pre> <li data-bbox="318 808 1268 861">• The administrative and server instance log files contain connection exceptions followed by this message: CORE3186: Failed to set configuration <p data-bbox="318 878 408 900">Solution</p> <p data-bbox="318 918 1268 970">Modify the firewall policy to allow the Sun ONE Application Server to make connection attempts to ports on the local system.</p> <p data-bbox="318 987 1296 1039">To avoid inaccurate alerts concerning possible attacks, either modify the relevant rules or change the conflicting port number(s) used by the Sun ONE Application Server.</p> <p data-bbox="318 1057 1218 1109">To determine the port numbers used by the Admin Server and App Server instances, see the <code>server.xml</code> file in the following location of your Sun ONE Application Server installation:</p> <pre data-bbox="358 1126 1061 1178"> domain_config_dir/domain1/admin-server/config/server.xml domain_config_dir/domain1/server1/config/server.xml </pre> <p data-bbox="318 1196 1158 1218">where <code>domain_config_dir</code> is the location of your initial server configuration. For example:</p> <pre data-bbox="318 1236 1196 1312"> Microsoft Windows: install_dir/domains/... Solaris 9 and above integrated install: /var/appserver/domains/... Solaris 8, 9 and above unbundled install: /var/opt/SUNWappserver7/domains/... </pre> <p data-bbox="318 1329 1305 1432">Look for the port settings in the <code><iioop-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	On Solaris, the Sun ONE Application Server starts all instances as root thereby allowing non-root users to have root access. <p data-bbox="239 314 1193 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="239 383 1219 609" style="list-style-type: none"><li data-bbox="239 383 1219 487">• All application server and administrative server instances are started automatically during Solaris system startup. In many environments, not all the instances are expected to be started automatically during Solaris system startup. Starting every defined instance can adversely impact the memory available on a system.<li data-bbox="239 505 1219 609">• When application server instances and administrative server instances are started automatically, the startup script for each instance is executed as root. Execution of non-root owned instance startup scripts can enable non-root users access to the root user through modification of the instance-level startup scripts. <p data-bbox="239 626 368 651">Background</p> <p data-bbox="239 668 1225 800">During installation of the Sun ONE Application Server as part of a Solaris installation, the <code>/etc/init.d/appserv</code> script and symbolic links to the <code>S84appserv</code> and <code>K05appserv</code> scripts in the <code>/etc/rc*.d/</code> directories are installed. These scripts cause all the application server and administrative server instances defined as part of the application server installation to be started and stopped automatically during Solaris system startup and shutdown.</p> <p data-bbox="239 817 976 841">The <code>/etc/init.d/appserv</code> script contains the following section of code:</p> <pre data-bbox="239 869 719 1119">... case "\$1" in 'start') /usr/sbin/asadmin start-appserv ;; 'stop') /usr/sbin/asadmin stop-appserv ;; ... </pre> <p data-bbox="239 1137 1225 1328">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="239 1345 1219 1449">In cases where an instance is using a privileged network port, the instance's <code>startserv</code> script must be executed as root. However, in these cases, "run as user" is typically set in the instance's configuration to force the instance to run as the specified user after the instance has been initially started by the root user.</p>

ID	Summary
4780076 (Continued)	<p data-bbox="307 227 1340 262">Solution</p> <p data-bbox="307 262 1340 296">Perform one of the following workarounds depending on your environment:</p> <ul data-bbox="307 296 1340 644" style="list-style-type: none"><li data-bbox="307 296 1340 401">• If your environment does not require all application server and administrative server instances to be started as root, then you should comment out execution of the <code>asadmin start-appserv</code> and <code>asadmin stop-appserv</code> commands in the <code>etc/init.d/appserv</code> script.<li data-bbox="307 401 1340 539">• 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="307 539 1340 644">• Starting a specific domain. If you require to start either an administrative domain or specific instances as non-root users, then you should ensure that the <code>su</code> command with the <code>-c</code> option is used to start the domains and/or instances of interest. <p data-bbox="307 644 1340 678">Examples</p> <p data-bbox="307 678 1340 782">Starting a specific administrative domain—If you want to start the administrative server instance and all application server instances of a specific administrative domain as the root user, you can modify the <code>/etc/rc*.d/</code> scripts as follows:</p> <pre data-bbox="307 782 1340 1078">... case "\$1" in 'start') /usr/sbin/asadmin start-domain --domain production-domain ;; 'stop') /usr/sbin/asadmin stop-domain --domain production-domain ;; ... </pre>

ID	Summary
4780076 (Continued)	<ul style="list-style-type: none"><li data-bbox="239 244 1249 291">• 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="239 322 1249 760">... 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="239 777 1249 840">See the <i>Sun ONE Application Server Administrator's Guide</i> for more information on the startup and shutdown commands available through the <code>asadmin</code> command line interface.</p>

Database Driver

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

ID	Summary
4700531	<p data-bbox="318 388 836 411">On Solaris, an ORACLE JDBC driver error occurs.</p> <p data-bbox="318 428 1305 505">This new Java Database Connectivity (JDBC) driver is for Oracle (R) working with JDK1.4. The problem is caused by a combination of the Oracle 9.1 database and ojdbc14.jar. Applying the patch will fix the problem on Solaris 32-bit machine, running an Oracle 9.0.1.3 database.</p> <p data-bbox="318 526 408 548">Solution</p> <p data-bbox="318 565 1262 616">Obtain and apply the patch to your server from the Oracle Web site for Bug 2199718. Perform the following steps:</p> <ol data-bbox="318 633 1003 899" style="list-style-type: none"> <li data-bbox="318 633 608 656">1. Go to the Oracle web site. <li data-bbox="318 673 604 696">2. Click the 'patches' button. <li data-bbox="318 713 746 736">3. Type 2199718 in the patch number field. <li data-bbox="318 753 1003 775">4. Click the 32-bit Solaris OS patch.Go to Metalink.oracle.com. <li data-bbox="318 793 494 815">5. Click patches. <li data-bbox="318 833 715 855">6. Under patch number, enter 2199718. <li data-bbox="318 873 676 895">7. Click the 32 bit Solaris OS patch.
4707531	<p data-bbox="318 921 1232 972">On Solaris, accessing an Oracle 9.1 database with an Oracle 9.2 Client might cause data corruption.</p> <p data-bbox="318 989 1305 1039">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="318 1057 1305 1133">The problem might be caused by using the ojdbc14.jar file with an Oracle 9.1 database. Applying the patch might assist in addressing the situation on Solaris 32-bit machines, running an Oracle 9.1 database. This JDBC driver is for Oracle working with JDK1.4.</p> <p data-bbox="318 1154 408 1177">Solution</p> <p data-bbox="318 1194 1305 1244">Obtain the patch that Oracle might make available from the Oracle web site for Bug 2199718 and apply it to your server.</p>

ID	Summary
4991065	<p data-bbox="239 244 1073 269">Oracle JDBC drivers must be configured properly to be compliant with J2EE 1.3.</p> <p data-bbox="239 284 328 309">Solution</p> <p data-bbox="239 324 835 348">Use the following configuration for Type 2 and Type 4 drivers:</p> <ol data-bbox="239 364 1172 513" style="list-style-type: none"><li data-bbox="239 364 619 388">1. Use the JDBC from 9.2.0.3 or later.<li data-bbox="239 404 1172 428">2. The Oracle database needs to have <code>compatible=9.0.0.0.0</code> in its parameter (<code>init.ora</code>) file.<li data-bbox="239 444 522 468">3. Use the <code>ojdbc14.jar</code> file.<li data-bbox="239 484 1051 508">4. Configure the Sun ONE Application Server to define the following JVM property: <pre data-bbox="239 524 622 548">-Doracle.jdbc.J2EE13Compliant=true</pre> <p data-bbox="239 564 1182 644">In addition, for Type-2 drivers both the <code>ORACLE_HOME</code> and <code>LD_LIBRARY_PATH</code> (which must include <code>\$ORACLE_HOME/lib</code>) need to be defined in the environment that the Sun ONE Application Server is started in. For example, add them to the <code>asenv.conf</code> file and ensure they are exported.</p>

ID	Summary
5022904	<p data-bbox="318 244 1282 293">Sun ONE Application Server has number of connections growing after idle time out with DB2 Type 2 Driver</p> <p data-bbox="318 314 1302 388">Scenario: When the DB2 database is configured with the wrong <code>datasource</code> class, Sun ONE Application Server will run out of connections in the connection pool as the connections are not closed properly.</p> <p data-bbox="318 409 408 434">Solution</p> <p data-bbox="318 453 1279 501">To avoid this problem, the DB2 Type 2 driver must be configured properly. These examples use the default DB2 client folder <code>/opt/IBM</code>.</p> <ol style="list-style-type: none"><li data-bbox="318 522 1302 571">1. Install a DB2 Client on the machine which hosts Sun ONE Application Server, with a database alias to the DB2 Server.<li data-bbox="318 591 1302 640">2. Modify the <code>startserv</code> script of the application server instance to set the DB2 environment. Add the following lines to the application server instance's start script:<pre data-bbox="412 661 708 817">DB2DIR=/opt/IBM/db2/V8.1 export DB2DIR DB2INSTANCE=db2tmp export DB2INSTANCE</pre><li data-bbox="318 838 1302 880">3. Because the client is owned by a user with a password, add these values to the connection pool:<pre data-bbox="412 887 1029 1043">user: db2inst1 password: db2inst1 databaseName: sample2 dataSourceName com.ibm.db2.jcc.DB2SimpleDataSource</pre><li data-bbox="318 1064 1302 1105">4. Modify the Class Path to have the following values:<pre data-bbox="412 1112 991 1269">/opt/IBM/db2/V8.1/java/db2jcc.jar /opt/IBM/db2/V8.1/java/db2jcc_license_cu.jar /opt/IBM/db2/V8.1/java/db2jcc_license_cisuz.jar /opt/IBM/db2/V8.1/java/db2java.zip</pre>

Web Container

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

ID	Summary
4740477	<p data-bbox="239 388 1225 439">The web cache example in sun-web-app_2_3-0.dtd file provides incorrect syntax for the timeout element.</p> <p data-bbox="239 458 882 508">The <code>timeout</code> element is specified to use in XML cache object as: <code><timeout> 60 </timeout></code></p> <p data-bbox="239 527 929 578">Because the <code>name</code> parameter is a required field, it should be written as: <code><timeout name="foo">60</timeout></code></p> <p data-bbox="239 597 329 619">Solution</p> <p data-bbox="239 638 468 661">Do not use with verifier.</p>
4817642	<p data-bbox="239 680 1225 703">Allowing separate web applications to share the same session ID creates security weakness.</p> <p data-bbox="239 722 329 744">Solution</p> <p data-bbox="239 763 1225 1003">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="239 1022 1225 1072">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="239 1091 1033 1378"><?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="239 1397 868 1420">The property <code>reuseSessionID</code> is set to true in next to last line.</p> <p data-bbox="239 1439 1225 1576">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
5039545	<p data-bbox="318 244 1258 296">Sun ONE Application Server sends absolute redirects causing problems with external SSL endpoints.</p> <p data-bbox="318 314 405 335">Solution</p> <p data-bbox="318 352 1276 401">Add the <code>sun-web.xml</code> property <code>relativeRedirectAllowed</code>. The default is <code>false</code>. When set to <code>true</code> relative redirects are allowed instead of absolute redirects.</p>

EJB Container

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

ID	Summary
4735835	<p data-bbox="318 725 993 746">Cannot properly handle null PKs returned from <code>ejbFind</code> methods.</p> <p data-bbox="318 763 1305 843">The following container-managed persistence (CMP) examples might return one or more nulls from an <code>ejbFind</code> (assumed called from <code>EmployeeEJB</code> bean, as they must return the same instance type as the bean):</p> <ol data-bbox="318 861 1015 885" style="list-style-type: none"> <li data-bbox="318 861 1015 885">1. <code>find insurance.employee where insurance.id == 10</code> <p data-bbox="318 902 1096 927">This returns null if such insurance does not have an employee associated with it.</p> <ol data-bbox="318 944 1055 968" style="list-style-type: none"> <li data-bbox="318 944 1055 968">2. <code>find all insurance.employee where insurance.id > 10</code> <p data-bbox="318 986 1282 1010">This returns a collection that might contain nulls for those insurances that do not have an employee.</p> <p data-bbox="318 1027 1046 1079">For the first occurrence of a null PC in the result set, the CMP client will get <code>JDOFatalInternalException "param0 cannot be null"</code>.</p> <p data-bbox="318 1097 1296 1149">The BMP client will get <code>EJBException "Null primary key returned from ejbFind method"</code> for a single object finder, and (possibly) a <code>NullPointerException</code> for a multi object finder.</p> <p data-bbox="318 1166 405 1187">Solution</p> <p data-bbox="318 1204 376 1229">None.</p>
4744434	<p data-bbox="318 1255 1239 1307">The Sun ONE Application Server occasionally throws Null Pointer Exception when using stateful session beans.</p> <p data-bbox="318 1324 1282 1453">The EJB container in the Sun ONE Application Server caches stateful session beans to improve performance. When the cache overflows (that is, the number of beans in the cache exceeds <code>max-cache-size</code>) the container passivates beans to the disk. Occasionally the server throws <code>NullPointerException</code>. The problem occurs when the difference between <code>max-cache-size</code> and <code>cache-resize-quantity</code> is less than 8.</p> <p data-bbox="318 1470 405 1491">Solution</p> <p data-bbox="318 1508 1290 1558">Ensure that the difference between <code>max-cache-size</code> and <code>cache-resize-quantity</code> is greater than eight, or use an unbounded cache by setting <code>max-cache-size</code> to zero.</p>

ID	Summary
4951476, 4967645	<p data-bbox="239 244 1225 291">The exception <code>javax.ejb.EJBException: org/dom4j/Element</code> is thrown when using Java WSDP 1.2 or 1.3</p> <p data-bbox="239 314 1225 361">NOTE: If your application does not use the Java Web Services Developer Pack (Java WSDP) 1.2 or 1.3, this problem does not apply to you.</p>
	<p data-bbox="239 383 1225 430">When Java WSDP 1.2 or 1.3 is installed and configured to be used together with Sun ONE Application Server 7, a <code>javax.ejb.EJBException: org/dom4j/Element</code> could be thrown by the EJB Container.</p>
	<p data-bbox="239 453 328 470">Solution</p> <p data-bbox="239 493 1225 539">Add the latest <code>dom4j-full.jar</code> to <code>server-classpath</code> in the <code>server.xml</code> file. It is available for download at http://dom4j.org and should precede the <code>appserv-jstl.jar</code> entry in <code>server-classpath</code>.</p>
4994366	<p data-bbox="239 562 868 579">Error when deploying if <code>ejb-local-ref</code> is used without <code>ejb-link</code>.</p>
	<p data-bbox="239 602 328 619">Solution</p> <p data-bbox="239 642 1225 666"><code>ejb-local-ref</code> requires <code>ejb-link</code>. When using <code>ejb-local-ref</code>, you must specify an <code>ejb-link</code> value.</p>

Container-Managed Persistence

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

ID	Summary
4732684	<p data-bbox="239 987 825 1005">Oracle JDBC driver optimizations are not being initiated.</p>
	<p data-bbox="239 1027 1225 1131">To take advantage of Oracle (R) database optimizations with container-managed persistence (CMP) beans, the Oracle driver files must be specified in the <code>classpath-suffix</code> attribute of the <code>server.xml</code> file rather than placed in the instance's <code>/lib</code> directory which is the default for third-party libraries.</p>
	<p data-bbox="239 1154 328 1171">Solution</p> <p data-bbox="239 1194 1225 1218">Add the Oracle driver files to the <code>classpath-suffix</code> attribute of the <code>server.xml</code> file.</p>
4734963	<p data-bbox="239 1241 843 1258">Self-referencing CMRs cause problem during deployment.</p>
	<p data-bbox="239 1281 1225 1355">The parser of the EJB deployment descriptor, <code>ejb-jar.xml</code>, does not correctly handle self-referencing container-managed relationships (CMRs), that is, <code>ejb-relationship-role</code>. The One side field is skipped.</p>
	<p data-bbox="239 1378 328 1395">Solution</p> <p data-bbox="239 1418 1225 1459">Switch the <code>ejb-relationship-role</code> sections so that the One side (with <code><multiplicity></code> Many) is the first in <code>ejb-relation</code>.</p>

ID	Summary
4747222	<p data-bbox="318 244 1200 269">On Oracle, the capture-schema utility does not work if -schemaname is not specified.</p> <p data-bbox="318 284 1302 335">The capture-schema utility has the following problems if the -schemaname option is not specified when capturing database schema information from the Oracle (R) database:</p> <ol data-bbox="318 350 1072 374" style="list-style-type: none"> <li data-bbox="318 350 1072 374">1. If you attempt to capture all tables (that is, no tables are explicitly chosen): <pre data-bbox="318 395 1302 475">bin/capture-schema -dburl jdbc:oracle:thin:@oraserver:1521:ora -username scott -password tiger -driver oracle.jdbc.driver.OracleDriver -out test.dbschema</pre> <p data-bbox="318 496 476 517">You will receive:</p> <pre data-bbox="318 526 858 574">java.sql.SQLExceptions ORA-00942: table or view does not exist.</pre> <p data-bbox="318 591 644 612">The resulting output file is broken.</p> <ol data-bbox="318 631 929 656" style="list-style-type: none"> <li data-bbox="318 631 929 656">2. If one or more tables are specified with the -table option: <pre data-bbox="318 677 1302 756">bin/capture-schema -dburl jdbc:oracle:thin:@oraserver:1521:ora -username scott -password tiger -driver oracle.jdbc.driver.OracleDriver -table DEPT -out test.dbschema</pre> <p data-bbox="318 774 1272 824">The resulting file has the specified tables, but no column information, which means the file can't be used for CMP mapping.</p>
4751235	<p data-bbox="318 1055 1258 1105">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="318 1123 1302 1256">Oracle (R) and PointBase internally translate case-insensitive identifiers into uppercase letters, unless the identifier are enclosed in " "). The capture-schema utility does not correctly handle table names in lowercase or mixed-case letters as arguments to the -table option when capturing a database schema from Oracle or PointBase (such as -table student or -table Student). The generated database schema file will not contain any columns information for the corresponding table.</p> <p data-bbox="318 1274 405 1295">Solution</p> <p data-bbox="318 1315 1053 1338">Use uppercase letters to specify table names (such as -table STUDENT).</p>

Message Service and Message-Driven Beans

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

ID	Summary
4683029	<p data-bbox="239 270 1225 322">The -javahome flag in all MQ Solaris/Microsoft Windows scripts does not work if the value has a space.</p> <p data-bbox="239 340 1225 418">The command-line utilities in Sun ONE Message Queue have a <code>-javahome</code> option that allows you to specify an alternate Java runtime. Using this option exposes a limitation where the path of the specified alternate Java runtime must not contain spaces. Examples of paths that have spaces are:</p> <ul data-bbox="239 435 611 496" style="list-style-type: none"> <li data-bbox="239 435 611 461">• Microsoft Windows: <code>C:\jdk 1.4</code> <li data-bbox="239 479 611 496">• Solaris: <code>/work/java 1.4</code> <p data-bbox="239 513 1225 704">This problem occurs at Sun ONE Application Server instance startup. When a Sun ONE Application Server instance is started, by default its corresponding Sun ONE Message Queue broker instance is also started. The broker always starts using the <code>-javahome</code> command-line option to ensure that it uses the same Java runtime used by the Sun ONE Application Server. If the Java runtime that is configured for use by the Sun ONE Application Server (and therefore passed on for use by the broker) is located at a path that contains spaces, broker startup fails, which also causes the Sun ONE Application Server instance startup to fail.</p> <p data-bbox="239 722 325 739">Solution</p> <p data-bbox="239 756 1225 808">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>The connection from XADataSource in non-txn context cannot be used.</p> <p>This is a known database driver issue. When there is a connection in a non-txn context, with XADataSource the <code>Autocommit</code> is set to false by default.</p> <p>Solution</p> <p>Use the non-XA datasource class to call the commit/rollback programs explicitly rather than through transactions.</p>
4700241	<p>Non-zero transaction timeout setting causes slow local transactions.</p> <p>Currently, the Local Transaction Manager does not support transactions with definite timeouts. If you set the <code>timeout-in-seconds</code> attribute in <code>transaction-service</code> element to a value greater than 0, all local transactions will be processed as a global transactions, and will take longer to complete. A local transaction 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>Solution</p> <p>Reset the <code>timeout-in-seconds</code> value to its default value of 0.</p>

Application Deployment

This section describes the known deployment issues and associated solutions.

ID	Summary
4403166	<p>On Microsoft Windows, long path names are not supported.</p> <p>Refer to “Installation, Upgrade, 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"> Increase the file descriptors limit by adding lines, in this format, to the <code>/etc/system</code> file. Depending on the size of the application, the values can be set higher or lower. <pre>set rlim_fd_max=8192 set rlim_fd_cur=2048</pre> Reboot the system.

Verifier

This section describes the known verifier issues and associated solutions.

ID	Summary
4742545	<p data-bbox="318 388 893 411">Standalone verifier shows EJB Class Not Found errors.</p> <p data-bbox="318 430 1300 644">The verifier indicates some failed tests with the following test description message: <code>EJB Class Not Found</code>. The test failures occur when an EJB JAR file uses an enterprise bean with a reference to another enterprise bean that is packaged in a separate EJB JAR file within the same EAR application. The failure messages are also observed if you try to validate the connector (RAR) dependent EAR files. This is because the RAR bundle need not be packaged within the EAR file that houses the enterprise bean with dependency on the RAR bundled files. The failures (exception to this are the connector-related failures) are only observed with the standalone verifier. The verifier invoked through the deployment command or the Administration interface does not show the failures.</p> <p data-bbox="318 663 408 685">Solution</p> <p data-bbox="318 704 1300 887">Make sure that the packaging of the application EAR is correct and if you are using any utility JAR file, it is packaged within the EAR file. To resolve the referencing errors, you can shift to the verifier invoked through the deployment backend using <code>asadmin</code> or the Administration interface. For the connector-related failures, place the JAR file containing the required classes into the class path for the verifier. You can open the <code>install_root/bin/verifier[.bat]</code> file and add a <code>LOCAL_CLASSPATH</code> variable to the end of the <code>JVM_CLASSPATH</code> variable. Locally add the classes to the <code>LOCAL_CLASSPATH</code> variable, then run the verifier.</p>

Configuration

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

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

ID	Summary
4742559	<p data-bbox="229 348 972 378">If IPv6 is not used in your network, this problem does not apply to you.</p> <p data-bbox="229 388 1225 470">By default, the Sun ONE Application Server uses IPv4. This is supported by all platforms on which the Sun ONE Application Server is available. In certain platforms, IPv6 is supported. In this case, Sun ONE Application Server configuration changes are required for conformance.</p> <p data-bbox="229 482 1225 564">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="229 576 329 605">Solution</p> <p data-bbox="229 618 672 647">Perform the following configuration changes:</p> <ol data-bbox="229 659 1129 933" 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="229 946 1225 1003">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="229 1015 915 1208" 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 getPrimaryKey(), getEJBMetaData(), getHomeHandle() 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"> 1. For commands that require more than 256 characters, use CLI multi-mode. 2. If you must use single-mode, run the command using OpenWin <code>cmdtool</code>.

ID	Summary
4680409	After configuring an instance to use SSL, the administrator cannot access the Admin Server from either the CLI or browser clients. Solution Import the Sun ONE Application Server certificate into each client that is to use SSL to access the Admin Server, and indicate that servers with such a certificate are to be trusted. How to do this on a browser is browser-specific; consult your browser's online help to see how to import a certificate to be trusted. For the CLI, if the server's certificate is in some <code>servercert.cer</code> file, and the installation directory is <code>/INSTALL</code> , the command is: <pre>keytool -import -file servercert.cer -alias server -keystore /INSTALL/jdk/jre/lib/security/cacerts</pre> NOTE: To avoid this problem in the future, ensure that the Admin Server certificate is installed in both the server <i>and</i> the client(s) before configuring the Admin Server to use SSL.
4688386	Using the asterisk (*) character in single-mode CLI command results in unexpected behavior and/or error messages. 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. Solution Use quote characters (either single or double quotes) around the asterisk.
4701361	Repeated changes applied to any instance eventually results in an out of memory error. 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. Solution Use the <code>asadmin reconfig</code> command periodically to discard old change records.
4704328	Cleanup does not happen when a call to create a duplicate domain fails. 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. Solution Remove any additional empty directory specified that might be created after the <code>-path</code> option is used.

ID	Summary
4708813	<p data-bbox="239 244 999 267">Cannot monitor the default (pointbase) connection-pool JDBC resources.</p> <p data-bbox="239 284 1213 336">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="239 354 328 376">Solution</p> <p data-bbox="239 394 771 418">Create the desired connection pool to allow monitoring.</p>
4722007	<p data-bbox="239 435 1028 458">Monitoring: Execution times of less than 1 millisecond cannot be measured.</p> <p data-bbox="239 475 1213 527">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="239 545 1213 631">iasadmin>get -m server1.application.usecase1app.ejb-module.UseCase1Ejb_jar.entity-bean. BeanOne.bean-method.method_create0.*</pre> <p data-bbox="239 649 596 671">The following attributes are returned:</p> <pre data-bbox="239 689 1213 921">Attribute name = total-num-errors Value = 0 Attribute name = method-name Value = public abstract com.ipplanet.ias.perf.jts.UseCase1.ejb.BeanOneRemote com.ipplanet.ias.perf.jts.UseCase1.ejb.BeanOneHome.create() throws javax.ejb.CreateException, java.rmi.RemoteException Attribute name = total-num-calls Value = 0 Attribute name = total-num-success Value = 0 Attribute name = execution-time-millis Value = -1</pre> <p data-bbox="239 939 1213 1043">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 1060 328 1083">Solution</p> <p data-bbox="239 1100 299 1124">None.</p>
4733109	<p data-bbox="239 1142 1213 1194">Verifier error reported in Administration interface when viewing Persistence Manager Factory resource created from command-line interface.</p> <p data-bbox="239 1211 1213 1263">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="282 1281 1213 1303">ArgChecker Failure: Validation failed for jndiName: object must be non-null</pre> <p data-bbox="239 1321 328 1343">Solution</p> <p data-bbox="239 1361 299 1385">None.</p>

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

Administration Infrastructure

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

ID	Summary
4676888	<p data-bbox="239 364 1185 390">On Microsoft Windows 2000, cannot create JVM when JVM heap size is set to a large value.</p> <p data-bbox="239 407 1213 434">If you try to set a larger JVM heap size on Windows 2000, you might get the following error message:</p> <pre data-bbox="239 451 871 529">Error occurred during initialization of VM, Could not reserve enough space for object heap Internal error: unable to create JVM</pre> <p data-bbox="239 546 328 572">Solution</p> <p data-bbox="239 590 1192 642">To configure the Sun ONE Application Server with a larger JAVA heap size on Windows 2000, it is necessary to rebase the Sun ONE Application Server DLLs.</p> <p data-bbox="239 659 1192 763">The Rebase utility, which comes both with Microsoft Framework SDK and Microsoft Visual Studio, allows you to set optimal base addresses for a number of DLLs starting from some address and thereby increasing JVM heap availability. The SDK Help Rebase topic recommends using address 0x60000000. For more details on rebase utility:</p> <p data-bbox="285 781 1220 841">http://msdn.microsoft.com/library/default.asp?url=/library/en-us/tools/tools/performance_tools.asp</p> <p data-bbox="239 859 378 885">Requirements:</p> <ul data-bbox="239 894 806 963" style="list-style-type: none"> • Window 2000 system with 2-4 GB memory • Visual Studio/Microsoft Framework SDK Rebase utility <p data-bbox="239 980 813 1006">To apply rebase to S1AS dynamic libraries do the following:</p> <ol data-bbox="239 1015 621 1171" style="list-style-type: none"> 1. cd into <i>install_dir</i>\bin 2. rebase -b 0x6000000 *.dll 3. cd ..\lib 4. rebase -b 0x6600000 *.dll
4686003	<p data-bbox="239 1189 735 1215">HTTP Quality of Service limits are not enforced.</p> <p data-bbox="239 1232 1220 1336">Quality of Service (QOS) includes a means of specifying the maximum number of HTTP connections and the bandwidth limit. When these attributes are exceeded, a 503 error should be returned to the client. However, after enabling QOS through the Administration interface, the server does not enforce the QOS limits.</p> <p data-bbox="239 1354 328 1380">Solution</p> <p data-bbox="239 1397 1213 1475">To fully enable QOS features, you must manually add an AuthTrans fn=qos-handler line to the top of the default object in the <code>obj.conf</code> file of the virtual server. The qos-handler Server Application Function (SAF) and <code>obj.conf</code> configuration file are described in the <i>Developer's Guide to NSAPI</i>.</p>

ID	Summary
4692673	<p data-bbox="318 244 1248 296">Restarting an instance in debug mode seems to fail if the instance is originally running in non-debug mode.</p> <p data-bbox="318 314 1305 418">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="318 435 408 460">Solution</p> <p data-bbox="318 477 379 501">None.</p>
4699450	<p data-bbox="318 522 1239 574">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="318 591 1305 668">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="318 685 408 710">Solution</p> <p data-bbox="318 727 1305 751">When deploying an application, use a path and file name that are less than 260 characters combined.</p>
4723776	<p data-bbox="318 769 1176 793">On Solaris, server fails to restart when converting to an SSL-enabled environment.</p> <p data-bbox="318 810 1286 942">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="318 960 1286 984">NOTE: This problem only occurs the first time the server is restarted. Subsequent restarts work fine.</p> <p data-bbox="318 1001 408 1025">Solution</p> <p data-bbox="318 1043 686 1067">If you have encountered this problem:</p> <p data-bbox="332 1085 444 1109">Click Start.</p> <p data-bbox="318 1126 1166 1150">To avoid this problem, perform the following steps instead of clicking the Restart button.</p> <p data-bbox="332 1168 444 1192">Click Stop.</p> <p data-bbox="332 1209 444 1234">Click Start.</p>
4724780	<p data-bbox="318 1237 1046 1262">Cannot start Admin Server if the domain is created in another system.</p> <ul data-bbox="368 1279 1305 1484" style="list-style-type: none"><li data-bbox="368 1279 1305 1369">• 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 1305 1484">• 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 1501 408 1525">Solution</p> <p data-bbox="318 1543 379 1567">None.</p>

ID	Summary
4734184	<p data-bbox="239 244 911 267">On Microsoft Windows 2000, the console is sometimes disabled.</p> <p data-bbox="239 284 1193 361">Sometimes (rarely) the Admin Server or App Server instance hangs during deployment or when commands are run. This can happen when some of the text from the console log is selected. If you deselect the text on the console log, the process continues.</p> <p data-bbox="239 378 325 401">Solution</p> <p data-bbox="239 418 1193 496">Disable automatic creation of the console for server1 instance by setting <code>log-service create-console</code> attribute to false. Clicking the mouse or pressing Enter on the console log might also solve this problem.</p>
4736554	<p data-bbox="239 522 1133 569">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="239 586 325 609">Solution</p> <p data-bbox="239 626 701 649">Remove the entire server and then add it again.</p> <p data-bbox="239 666 1222 718">NOTE: To avoid the problem in the future—Before removing the <code>httplistener</code>, disable security using the following command:</p> <pre data-bbox="239 736 1158 909">/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="239 935 979 958">On Microsoft Windows 2000, corrupt messages display on the console.</p> <p data-bbox="239 975 1200 1027">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 1045 325 1067">Solution</p> <p data-bbox="239 1085 729 1107">Use the Admin interface to view the log messages.</p>

ID	Summary
4739831	<p data-bbox="311 239 1340 269">A partially-deleted instance causes incorrect responses from some CLI commands.</p> <p data-bbox="311 281 1340 338">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="311 350 1340 407" style="list-style-type: none"><li data-bbox="311 350 1340 407">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="311 420 1340 449">Solution</p> <p data-bbox="311 461 1340 491">Manually remove the leftover instance directory, then run the <code>create-instance</code> command.</p> <ol data-bbox="311 503 1340 560" style="list-style-type: none"><li data-bbox="311 503 1340 560">2. The <code>list-instances</code> command in local mode includes the partially-deleted instance name and status. <p data-bbox="311 572 1340 602">Solution</p> <p data-bbox="311 614 1340 644">Manually remove the leftover instance directory, then run the <code>list-instances</code> command.</p> <ol data-bbox="311 656 1340 713" style="list-style-type: none"><li data-bbox="311 656 1340 713">3. On Microsoft Windows 2000, the <code>start-instance</code> command in remote mode displays a null string. <p data-bbox="311 725 1340 755">Solution</p> <p data-bbox="311 767 1340 824">Manually remove the leftover instance directory, create a new instance, then run the <code>start-instance</code> command.</p> <ol data-bbox="311 836 1340 911" style="list-style-type: none"><li data-bbox="311 836 1340 911">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="311 923 1340 1008">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="311 1020 1340 1050">Solution</p> <p data-bbox="311 1062 1340 1091">Manually remove the leftover instance directory.</p>
4739891	<p data-bbox="311 1105 1340 1163">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="311 1175 1340 1204">Solution</p> <p data-bbox="311 1216 1340 1274">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="239 244 1072 265">SNMP: END OF MIB is returned when adding and starting a new instance server.</p> <p data-bbox="239 284 1218 335">If you add and start a new instance without shutting down the instance server and subagent, an <code>END OF MIB</code> message is returned.</p> <p data-bbox="239 354 325 374">Solution</p> <ol data-bbox="239 394 1218 569" style="list-style-type: none"> <li data-bbox="239 394 1218 473">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="239 493 1218 569">2. If the subagent is already running, don't start any extra subagent processes in any instance. There can only be one master agent and one subagent for a Sun ONE Application Server installation (common for all domains/instances).
4737138	<p data-bbox="239 591 1153 642">License expired message does not appear at Microsoft Windows Services or at the DOS prompt.</p> <p data-bbox="239 661 1218 711">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="239 730 325 751">Solution</p> <p data-bbox="239 770 811 791">Start servers from CLI (<code>asadmin</code>) or from Sun program icon</p>
4780488	<p data-bbox="239 814 1218 1012">Existence of multiple <code>obj.conf</code> files causes confusion.</p> <p data-bbox="239 857 1218 1012">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 1031 1218 1133">When the Sun ONE Application Server is installed, the <code>obj.conf</code> and <code>server1-obj.conf</code> files exist under the <code>/domains/domain1/server1/config/</code> directory. The content in the file named <code>obj.conf</code> is overridden by the content of the <code>server1-obj.conf</code> file specified at the virtual server level. In effect, the file named <code>obj.conf</code> is not used by the Sun ONE Application Server instance.</p> <p data-bbox="239 1152 1218 1229">For example, if you modified the file named <code>obj.conf</code> while configuring the Sun ONE Application Server web server plug-in, your pass through settings will not take effect because the wrong <code>obj.conf</code> file has been modified.</p> <p data-bbox="239 1248 325 1269">Solution</p> <p data-bbox="239 1288 1218 1338">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>

ID	Summary
4938319	<p data-bbox="315 244 972 269">Errors when using SSL and web server (reverse proxy) plug-in.</p> <p data-bbox="315 284 905 309">502 errors occur when using SSL and the web server plug-in</p> <p data-bbox="315 324 408 348">Solution</p> <p data-bbox="315 364 1305 499">Set the <code>keepAliveTimeout</code> value to the same value in both the Sun ONE Web Server <code>magnus.conf</code> file and the Sun ONE Application Server's <code>init.conf</code> file. If these values are different the connection may be closed when the Application Server connects to the Web Server or the Web Server connects to the Application Server. If the connection is already closed, you see a 502 error.</p>
6092475	<p data-bbox="315 522 1265 598">When running the web server (reverse proxy) plug-in with Sun ONE Web Server 6.1 on Intel-based hardware (such as Solaris x86, Linux, or Microsoft Windows) the Sun ONE Web Server may experience crashes and restarts under heavy loads.</p> <p data-bbox="315 614 408 638">Solution</p> <p data-bbox="315 654 1305 708">To correct this problem, make the following configuration change to the <code>magnus.conf</code> file and restart the web server instance:</p> <pre data-bbox="315 723 486 788">KernelThreads 1 RqThrottle 1</pre> <p data-bbox="315 803 1239 857">These changes cause Sun ONE Web Server 6.1 to use native OS threads on the Intel platform hardware, rather than creating NSCP threads, which do not scale well on Intel based hardware.</p> <p data-bbox="315 873 1186 897">These settings are not needed for other hardware platforms, such as Sun Solaris SPARC.</p>
6157476	<p data-bbox="315 921 1250 968">On UNIX platforms, users in the same group as the “sysuser” of the Sun ONE Application Server’s domain and instances do not have write access to deployed applications.</p> <p data-bbox="315 984 408 1008">Solution</p> <p data-bbox="315 1024 534 1048">To avoid this problem:</p> <ol data-bbox="315 1064 1305 1298" style="list-style-type: none"><li data-bbox="315 1064 776 1088">1. Create the domain with the <code>-sysuser</code> option.<li data-bbox="315 1104 1305 1185">2. As the system user, change the user mask to 2 by running <code>umask 2</code> at the command prompt. This change turns on the group write permissions for all files created by the Sun ONE Application Server.<li data-bbox="315 1201 608 1225">3. Restart the Admin Server.<li data-bbox="315 1241 1305 1298">4. Grant group write permissions to the server instance's applications directory by executing <code>chmod -R 775 applications</code> in the instance directory. <p data-bbox="315 1314 1286 1364">Files of deployed applications will now have group write permissions. For additional background and more information, see Info Doc 77800.</p>

Administration Interface

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

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

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

ID	Summary
4722607	<p data-bbox="239 678 1225 730">On Microsoft Windows 2000, cannot edit or remove entries within a newly created mime file that omits the .types extension.</p> <p data-bbox="239 748 1225 800">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 data-bbox="239 817 328 841">Solution</p> <p data-bbox="239 859 735 881">Use the .types extension for any mime file name.</p>

ID	Summary
4725473	<p data-bbox="317 244 1335 270">External certificate nickname doesn't display on the Administration interface Nickname list.</p> <p data-bbox="317 284 1335 392">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="317 406 406 432">Solution</p> <ol data-bbox="317 446 1335 595" style="list-style-type: none"> <li data-bbox="317 446 1335 499">1. Log in to the system where the Sun ONE Application Server software is installed as an Administrative User. <li data-bbox="317 513 1335 595">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="317 609 882 881">/sun/appserver7/bin/asadmin create-ssl --user admin --password <i>password</i> --host <i>host_name</i> --port 8888 --type http-listener --certname nobody@apprealm:Server-Cert --instance server1 --ssl3enabled=true --ssl3tlsciphers +rsa_rc4_128_md5 http-listener-1</pre> <p data-bbox="317 895 1335 977">This command establishes the link between the certificate and the server instance; it does not install the certificate (which was done using the Administration interface). Even though the certificate is linked with <code>http-listener</code>, the <code>http-listener</code> will be listening in non-SSL mode.</p> <ol data-bbox="317 991 1335 1017" style="list-style-type: none"> <li data-bbox="317 991 1335 1017">3. Enable the <code>http-listener</code> to listen in SSL mode by using the following CLI command. <pre data-bbox="317 1031 1158 1199">/sun/appserver7/bin/asadmin set --user admin --password <i>password</i> --host <i>host_name</i> --port 8888 server1.http-listener.http-listener-1.securityEnabled=true</pre> <p data-bbox="317 1213 1100 1239">This command switches the server instance listening state from non-SSL to SSL.</p> <p data-bbox="317 1253 1239 1279">After completing the preceding steps, the certificate is displayed in the Administration interface.</p> <ol data-bbox="317 1293 1335 1319" style="list-style-type: none"> <li data-bbox="317 1293 1335 1319">4. You can now use the Administration interface to edit the <code>http-listener</code> as needed.

ID	Summary
4728718	<p>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>In the Administration interface, the log file field cannot be used to add any values.</p> <p>Solution</p> <p>Delete the virtual server just created, create the needed file, then recreate the virtual server.</p> <p>NOTE: To avoid the problem in the future—Always create the log file first, before attempting to create the new virtual server.</p>
4741123	<p>On Solaris 9 update 2, default browser is incompatible with Sun ONE Application Server 7.</p> <p>When you attempt to use the Sun ONE Application Server Administrative interface with the Solaris 9 4/03 operating environment default browser, the following error message is displayed:</p> <p>Unsupported Browser: Netscape 4.78.</p> <p>It is recommended that you upgrade your browser to Netscape 4.79 or Netscape 6.2 to run the Sun ONE Application Server UI. Those who choose not to continue and not upgrade might notice degraded performance and/or unexpected behavior.</p> <p>NOTE: If you are running the version of the Sun ONE Application Server Administration interface that is included in the Solaris 9 4/03 operating environment, you will need to use Netscape 4.79 or Netscape 7.0.</p> <p>Solution</p> <ul style="list-style-type: none"> • 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>. • 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>Access Control List (ACL) editing is not supported on some versions of Netscape Navigator.</p> <p>If you attempt to edit ACL entries while using either Netscape Navigator, versions 6.x or 7.x, you might encounter intermittent problems, such as the browser disappearing or the ACL edit screen never displays.</p> <p>Solution</p> <p>Choose one of the following workarounds.</p> <ul style="list-style-type: none"> • Use the supported 4.79 version of Netscape Navigator. • 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	Netscape 4.8 produces warning message on Administration interface. <p>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> Solution <p>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	An invalid Help button appears in the Install Certificate screen. <p>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> Solution <p>Click the Help link in the top pane for context-sensitive help.</p>
4760939	SSL: A self-signed certificate generated by certutil is not displayed on the Certificate Nickname list. <p>A self-signed certificate is generated by the <code>certutil</code> and Certificate Nickname is not displayed on the Administration interface.</p> Solution <p>To use a self-signed certificate, you must manually edit the <code>server.xml</code> file.</p>
4848146	Error occurs accessing the Administration interface if the browser uses a proxy server. <p>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> Solution <p>Disable the proxy server.</p> <p>OR</p> <p>Include localhost in the list of domains to be ignored by their proxy server.</p>
4957860	On Red Hat Enterprise Linux AS 3.0 Failed to add MIME type. <p>When you attempt to add a MIME type to a MIME types file through the Administration interface, an error appears to prevent accessing the Global MIME Types page.</p> Solution <p>This problem happens because the default locale is set to <code>en_US.UTF-8</code> instead of <code>en_US</code>. The workaround is to set <code>export LANG=en_US</code>, then restart the Admin Server.</p>

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

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

ID	Summary
4725779	<p data-bbox="315 244 1119 269">Pre-configured Sun ONE specific property values do not appear in the editor.</p> <p data-bbox="315 284 1279 361">If you have a RAR file that has been configured for deployment to the Sun ONE Application Server, and try to look at the property values in the property sheet, you will see the default values, not the values specified in the <code>sun-ra.xml</code> file.</p> <p data-bbox="315 380 408 404">Solution</p> <p data-bbox="315 421 1243 473">Extract the Sun-specific descriptor XML file from the RAR and put it in the same directory as the RAR. This allows you to edit the <code>slas</code> descriptors.</p> <p data-bbox="315 491 1296 539">NOTE: The original contents of the RAR file will not be changed as a result of user edits this way, but the RAR file sent to the server will have the updated XML file in it.</p>
4733794	<p data-bbox="315 562 1001 586">EJB name changes applied at Application node are undeployable.</p> <p data-bbox="315 602 1300 708">It is possible to change the <code>ejb-name</code> element of a bean in the context of an application by using the dialog presented when the you select the View EJB Names item of an application node's contextual menu (right click menu). These changes are applied to the <code>alt-dd</code> that is created as part of the packaging. The name change is not propagated to the Sun ONE Application Server <code>alt-dd</code>.</p> <p data-bbox="315 725 408 749">Solution</p> <p data-bbox="315 767 379 791">None.</p>

ID	Summary
4745283	<p data-bbox="239 244 839 267">If only Admin Client is installed, App Client cannot be run.</p> <p data-bbox="239 284 1220 335">If only Admin Client or Sun ONE Studio Plug-in is installed, you cannot run an App Client application. App Client is a separate package from Admin Client.</p> <p data-bbox="239 352 325 374">Solution</p> <p data-bbox="239 392 1220 470">Install the App Client package. Get either a full installation (<code>appclient</code> script is under <code>SUNONE_INSTALL_ROOT/bin</code>), or get the <code>appclient</code> package from a remote machine where the Sun ONE Application Server installed.</p> <p data-bbox="239 487 525 510">To get <code>appclient</code> package:</p> <ol data-bbox="239 527 972 550" style="list-style-type: none"> 1. Run <code>SUNONE_INSTALL_ROOT/bin/package-appclient[.bat]</code> <p data-bbox="239 567 891 618">This generates <code>appclient.jar</code> file in <code>SUNONE_INSTALL_ROOT/lib/appclient/appclient.jar</code></p> <ol data-bbox="239 635 1206 852" 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="239 869 1043 1003"> %AS_INSTALL%=APPCLIENT_INSTALLED_ROOT %AS_JAVA%=Your_Installed_Java_Home %AS_IMQ_LIB%=APPCLIENT_INSTALLED_ROOT/imq/lib %AS_ACC_CONFIG%=APPCLIENT_INSTALLED_ROOT/config/sun-acc.xml %AS_WEBSERVICES_LIB%=APPCLIENT_INSTALLED_ROOT/lib </pre> <p data-bbox="239 1020 1220 1098">NOTE: The <code>appclient.jar</code> file is only intended to be run from a remote machine that has the same operating system as the machine where it was created. For example, <code>appclient.jar</code> created on a Solaris platform will not function on Windows 2000.</p> <p data-bbox="239 1116 768 1138">For details, see the <code>package-appclient</code> manpage.</p>

Sample Applications

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

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

ID	Summary
4714439	<p data-bbox="318 352 836 374">In PetStore, cannot add a user that already exists.</p> <p data-bbox="318 392 1305 444">In the PetStore sample application, trying to add a user that already exists displays a stack trace on the screen.</p> <p data-bbox="318 461 408 484">Solution</p> <p data-bbox="318 501 379 524">None.</p>
4726161	<p data-bbox="318 545 879 567">Modified samples are not updated until redeployment.</p> <p data-bbox="318 585 1305 637">If users attempt to deploy a sample more than once, after making small changes and repackaging the application, the following error message is displayed.</p> <p data-bbox="386 654 632 677">"Already Deployed"</p> <p data-bbox="318 694 1305 746">This issue affects most of the samples since they use the Ant utility and the <code>common.xml</code> file, which have the "deploy" target, thus mixing deployment of applications with registration of resources.</p> <p data-bbox="318 763 408 786">Solution</p> <p data-bbox="318 803 726 826">Choose one of the following workarounds:</p> <p data-bbox="318 843 1305 895">For the majority of the sample applications that use the Ant utility <code>build.xml</code> files, which include the <code>common.xml</code> file, type the following command.</p> <p data-bbox="318 913 608 935"><code>% asant deploy_common</code></p> <p data-bbox="318 953 933 975">For all other sample applications, type the following commands.</p> <p data-bbox="318 992 541 1015"><code>% asant undeploy</code></p> <p data-bbox="318 1032 512 1055"><code>% asant deploy</code></p>
4733412	<p data-bbox="318 1072 1032 1095">Sample application converter has redundant JAR file in web module.</p> <p data-bbox="318 1112 1305 1190">The converter application has a redundant stateless-converter EJB JAR file under the <code>WEB-INF/lib</code> directory. The EAR file is located under the sample application directory. From the bundled Solaris build, it is here:</p> <p data-bbox="318 1208 1279 1230"><code>/usr/appserver/samples/ejb/stateless/converter/stateless-converter.ear</code></p> <p data-bbox="318 1248 1305 1326">Extract this file and go to the <code>WEB-INF/lib</code> directory of the web module named <code>stateless-converter</code> and you will see the file. This redundant JAR file applies to all the web modules which call the EJB module. The root cause of the problem is the <code>common.xml</code> file used to build the application.</p> <p data-bbox="318 1343 408 1366">Solution</p> <p data-bbox="318 1383 968 1406">None. Doesn't affect functionality when running sample application.</p>

ID	Summary
4739854	<p data-bbox="239 244 868 269">Instructions needed for deploying resources using asadmin.</p> <p data-bbox="239 284 1153 336">In the documentation for some samples, you are instructed to deploy the application using the <code>asadmin</code> command, but no explanation is provided on how to create the needed resources.</p> <p data-bbox="239 352 328 376">Solution</p> <p data-bbox="239 392 1196 473">You can deploy the application/resource by using the <code>asadmin</code> command and can get more information by referring to the sample's <code>build.xml</code> file. More information can also be found in the printout from running <code>asant deploy</code>.</p> <p data-bbox="239 489 1190 571">For JDBC/BLOB example, the following steps create the resources using <code>asadmin</code> (assuming the hostname is <code>jackiel2</code> and the username/password/port for the Admin Server is <code>admin/adminadmin/4848</code>):</p> <pre data-bbox="239 586 1228 859">asadmin create-jdbc-connection-pool --port 4848 --host jackiel2 --password adminadmin --user admin jdbc-simple-pool --datasourceclassname com.pointbase.jdbc.jdbcDataSource --instance server1 asadmin set --port 4848 --host jackiel2 --password adminadmin --user admin server1.jdbc-connection-pool.jdbc-simple-pool.property.DatabaseName=jdbc :pointbase:server://localhost/sun-appserv-samples</pre>
4747534	<p data-bbox="239 874 1172 899">The lifecycle-multithreaded sample application asks for the admin user password 8 times.</p> <p data-bbox="239 914 1196 966">While deploying the sample application <code>lifecycle-multithreaded.jar</code> file using the <code>asant deploy</code> command, you are prompted to enter the admin user password eight times.</p> <p data-bbox="239 982 328 1006">Solution</p> <p data-bbox="239 1022 297 1046">None.</p>

ID	Summary
4748535	<p data-bbox="315 244 668 265">Miscellaneous sample file issues.</p> <ol data-bbox="315 284 1120 390" style="list-style-type: none"> <li data-bbox="315 284 1058 305">1. Logging sample generates multiple log files, for the fourth logging option. <li data-bbox="315 324 915 345">2. Logging sample has a redundant <code>log.properties</code> file. <li data-bbox="315 364 1120 390">3. Instructions for the security grant in sample documentation are not fully correct. <p data-bbox="315 409 406 430">Solution</p> <ol data-bbox="315 449 1258 470" style="list-style-type: none"> <li data-bbox="315 449 1258 470">1. Close the handler before removing it. See <code>initLog()</code> method in <code>GreeterServlet.java</code>. <pre data-bbox="315 489 856 751">private void initLog(String log_type) { //Remove all handlers Handler[] h = logger.getHandlers(); for (int i = 0; i < h.length; i++) { h[i].close(); //must do this logger.removeHandler(h[i]); } ... }</pre> <p data-bbox="315 770 1272 817">Also, open file handler with an append option. See <code>addHandler()</code> in <code>GreeterServlet.java</code>. Write:</p> <pre data-bbox="315 836 935 857">Handler fh = new FileHandler(log_file, true);</pre> <p data-bbox="315 876 415 897">instead of</p> <pre data-bbox="315 916 851 937">Handler fh = new FileHandler(log_file);</pre> <ol data-bbox="315 956 1286 1171" style="list-style-type: none"> <li data-bbox="315 956 701 977">2. Edit the <code>build.xml</code> file as follows: <pre data-bbox="315 996 1142 1102">< fileset dir="\${src.docroot}" excludes="cvs,annontation"/> < fileset dir="\${src.docroot}" excludes="cvs,annontation,log.properties"/></pre> <li data-bbox="315 1121 1286 1171">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 1190 763 1211">PointBase 4.3 replaced with PointBase 4.4.</p> <p data-bbox="315 1230 1282 1308">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 1328 406 1348">Solution</p> <p data-bbox="315 1367 1272 1414">In the "Update Samples Ant Files" section, use the <code>pbtools44.jar</code> and <code>pbclient44.jar</code> files instead of the <code>pbtools43.jar</code> and <code>pbclient43.jar</code> files.</p> <p data-bbox="315 1433 1243 1491">In the "Starting PointBase" section, for PointBase downloaded and installed separately on UNIX platforms, use <code>pointbase_install_dir/tools/server/start_server</code> to start PointBase.</p>

ID	Summary
5012233	<p data-bbox="239 244 811 269">Deployment failed on the connector sample cci.ear file.</p> <p data-bbox="239 284 1249 336">Displays an error saying external entity not found "http://www.sun.com/software/sunone/appserver/dtds/sun-application-client_1_3-0.dtd".</p> <p data-bbox="239 352 325 376">Solution</p> <p data-bbox="239 392 1063 416">Modify <code>sun-application-client.xml</code> to have single quotes instead of double quotes.</p> <p data-bbox="239 432 319 456">Sample:</p> <pre data-bbox="239 472 1249 562"><!DOCTYPE sun-application-client PUBLIC "-//Sun Microsystems, Inc.//DTD Sun ONE Application Server 7.0 Application Client 1.3//EN" 'http://www.sun.com/software/ sunone/appserver/dtds/sun-application-client_1_3-0.dtd'></pre>

ORB/IIOP Listener

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

ID	Summary
4743366	<p data-bbox="239 841 1206 866">The address attribute in the iiop-listener element in the server.xml file does not support ANY.</p> <p data-bbox="239 881 1249 1020">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 1036 1249 1112">The ANY value in the address attribute of the <code>iiop-listener</code> element in the <code>server.xml</code> file allows for listening on all interfaces available on a system. This support includes both the IPv4 and IPv6 interfaces.</p> <p data-bbox="239 1128 325 1152">Solution</p> <p data-bbox="239 1168 1249 1223">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 1239 1206 1291">RMI-IIOP clients will not work for IPv6 addresses where DNS address lookups fail for the IPv6 address.</p> <p data-bbox="239 1307 1249 1359">If a DNS lookup for an IPv6 address fails, clients of Remote Method Invocation-Internet Inter-ORB Protocol (RMI-IIOP) will not work for IPv6 addresses.</p> <p data-bbox="239 1374 325 1399">Solution</p> <p data-bbox="239 1414 1249 1479">Domain Name Service (DNS) should be set up at the deployment site in order to look up an IPv6 address.</p>

ID	Summary
4810199	<p>The optimized CORBA Util delegate, which is bundled with Sun ONE Application Server 7.0 Standard Edition, is not enabled by default.</p> <p>A default installation of Sun ONE Application Server 7 does not enable the use of the high performance CORBA Util delegate. As a result, you might experience a significant decrease in performance when using the JDK-bundled or Sun ONE Application Server-bundled ORB.</p> <p>Refer to the “High performance CORBA Util Delegate Class” section in the “ORB Tuning” module of the <i>Sun ONE Application Server Performance Tuning Guide</i>.</p> <p>Solution</p> <p>You can improve performance significantly by enabling the use of a high performance CORBA Util Delegate implementation. To enable the alternate CORBA Util Delegate, add the following to the Sun ONE Application Server configuration file, <code>server.xml</code>:</p> <pre data-bbox="318 614 1275 666"><jvm-options>-Djavax.rmi.CORBA.UtilClass=com.ipplanet.ias.util.orbutil.IasUtilDelegate</jvm-options></pre>
4847269	<p>The J2SE 1.3.1_X client cannot communicate with Sun ONE Application Server 7.</p> <p>When the J2SE 1.3.1_X client communicates with Sun ONE Application Server 7, the client will core dump.</p> <p>Solution</p> <p>Use J2SE 1.3.1_04 for the client.</p>

Internationalization (i18n)

This section describes known internalization issues and the associated solutions.

ID	Summary
4761017	<p>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>
4957904	<p>User cannot launch the Chinese version of the Administration interface after installation.</p> <p>After installing the Chinese version of Sun ONE Application Server, the Administration interface displays in English.</p> <p>Solution</p> <p>Manually set the locale entry in the <code>server.xml</code> file and restart the server.</p>

ID	Summary
N/A	<p data-bbox="239 244 1025 269">On Solaris, there are limitations associated with the Netscape 4.79 browser.</p> <ul data-bbox="239 284 1225 404" style="list-style-type: none"><li data-bbox="239 284 1225 335">• When using Netscape 4.79 on Solaris, localized JavaScript messages display garbled characters. JavaScript cannot handle UTF-8 encoding.<li data-bbox="239 350 1225 404">• When using Netscape 4.79 on Solaris in the Chinese GB18030 locale, GB18030 characters are not accepted. <p data-bbox="239 420 325 444">Solution</p> <p data-bbox="239 460 1125 484">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="239 774 1163 798">Developer's Guide to Web Applications: Description of cookieName property misleading.</p> <p data-bbox="239 814 1196 921">In the <i>Developer's Guide to Web Applications</i>, the documentation of the <code>sun-web.xml</code> file lists the <code>cookieName</code> property of the <code>cookie-properties</code> subelement and implies that the value of the <code>cookieName</code> property can be changed from the default value. However, the value cannot be changed; it must always be <code>JSESSIONID</code>.</p> <p data-bbox="239 937 325 961">Solution</p> <p data-bbox="239 977 297 1001">None.</p>

ID	Summary
4720171	<p data-bbox="318 239 1162 265">There is no documentation explaining the use of indexed deployment directories.</p> <p data-bbox="318 279 1302 444">The numbering scheme part of a deployed application's directory name has been implemented as an indexing mechanism to allow a developer to modify a JAR and/or class file associated with the deployed application. This is significant to the Windows platform due to a sharing violation error that occurs during an attempt to overwrite a loaded file; Windows places a file lock on the loaded file. The file is loaded into the server instance or the IDE during session startup. With the sharing violation error, two options are possible:</p> <ul data-bbox="318 458 1286 579" style="list-style-type: none">• 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• Update the JAR file, create a new EAR file, and redeploy the application. <p data-bbox="318 593 1302 649">NOTE: Redeployment of the application on the Solaris platform is not necessary since there are no file locking constraints.</p> <p data-bbox="318 663 408 689">Solution</p> <p data-bbox="318 703 1302 840">When making changes to an already deployed application on the Windows platform for IDE setup, ANT file copy, or compile or other operations, note that a new directory will be created with an incremented index number as the workaround for the file locking constraint. For example: On the Solaris platform the J2EE application, helloworld, is deployed to the Sun ONE Application Server with the following directory structure:</p> <pre data-bbox="318 854 1236 880">appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_1</pre> <p data-bbox="318 894 1302 1060">A change is then to be made to a servlet that's part of this deployed application (for example, <code>HelloServlet.java</code>). The Sun Java Studio IDE is started, the source file for this servlet is changed and compiled with the <code>javac</code> target set to the above directory. With the source compiled to the proper location, a reload file exists for this application, the reload flag in <code>server.xml</code> is set to true, and, with the server instance running, the changes take effect without having to reassemble the application and redeploy it.</p> <p data-bbox="318 1074 1286 1130">For the Windows platform, the JAR or class file cannot be altered and updated due to the file locking issue. Therefore, there are two methods of dealing with this issue on Windows:</p> <ul data-bbox="318 1144 1302 1265" style="list-style-type: none">• 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• Make the changes to the helloworld source, assemble it, and redeploy it without undeploying the previous deployment of helloworld. <p data-bbox="318 1279 1302 1362">The second option is the preferred method since this option results in the use of the incremented index number appended to the deployed application's directory name. Therefore, after a second deployment of helloworld, the directory structures would be:</p> <pre data-bbox="318 1376 1236 1433">appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_1 appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_2</pre> <p data-bbox="318 1447 1108 1473">The second deployment of helloworld would be deployed under <code>helloworld_2</code>.</p>

ID	Summary
4851218	<p data-bbox="239 244 1086 269">You cannot use keytool to generate certificates with Sun ONE Application Server.</p> <p data-bbox="239 284 1090 309">Certificates generated with keytool are not compatible with Sun ONE Application Server.</p> <p data-bbox="239 324 327 348">Solution</p> <p data-bbox="239 364 1225 418">You can use <code>certutil</code> to generate self-signed certificates. It is available as an add-on to the Sun ONE Application Server at:</p> <p data-bbox="239 434 791 458">http://www.sun.com/software/download/app_servers.html</p> <p data-bbox="239 473 625 498">For information on using <code>certutil</code>, see:</p> <p data-bbox="239 513 933 538">http://www.mozilla.org/projects/security/pki/nss/tools/certutil.html</p>
4870888	<p data-bbox="239 560 819 585">Getting Started Guide built into the product is incorrect.</p> <p data-bbox="239 600 1225 654">The <i>Getting Started Guide</i> that is built into the product contains incorrect information regarding platforms and sizing. It also is not fully 508-compliant.</p> <p data-bbox="239 670 327 694">Solution</p> <p data-bbox="239 710 1225 763">For correct platform and sizing information, refer to the <i>Installation Guide</i> or the <i>Platform Summary</i>. For a 508-compliant version of the <i>Getting Started Guide</i>, see the version posted here:</p> <p data-bbox="284 779 522 803">http://docs.sun.com</p>
4875280	<p data-bbox="239 824 705 848">Online help has some incorrect descriptions.</p> <p data-bbox="239 864 327 888">Solution</p> <ul data-bbox="239 904 558 928" style="list-style-type: none"><li data-bbox="239 904 558 928">• In the <code>asprfhls.html</code> file: <p data-bbox="239 944 1225 998">Determines whether SSL3 is enabled. For administrative purposes, deselecting SSL2 and using TLS only is recommended. (file name <code>asprfhls.html</code>)</p> <p data-bbox="239 1013 782 1038">If your browser does not support TLS, then select SSL3.</p> <p data-bbox="239 1053 465 1078">Instead, this should be:</p> <p data-bbox="239 1093 1225 1147">Determines whether SSL3 is enabled. For administrative purposes, deselecting SSL3 and using TLS only is recommended.</p> <p data-bbox="239 1163 782 1187">If your browser does not support TLS, then select SSL3.</p> <ul data-bbox="239 1203 491 1227" style="list-style-type: none"><li data-bbox="239 1203 491 1227">• In the <code>asprflo.html</code> file: <p data-bbox="239 1242 391 1267">Create Console</p> <p data-bbox="239 1282 986 1307">(Window only). When checked, a console window is created for <code>stderr</code> output.</p> <p data-bbox="239 1322 465 1347">Instead, this should be:</p> <p data-bbox="239 1362 391 1388">Create Console</p> <p data-bbox="239 1404 996 1428">(Windows only). When checked, a console window is created for <code>stderr</code> output.</p>

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

ID	Summary
4913290	<p data-bbox="239 239 1253 265">Form Based Authentication does not provide the same functionality as in 6.5</p> <p data-bbox="239 279 1253 361">Applications developed on iPlanet Application Server 6.5 that use form-based authentication can pass the request parameters to the Authentication Form or the Login page. The Login page could be customized to display the authentication parameters based on the input parameters.</p> <p data-bbox="239 374 1253 401">Solution</p> <p data-bbox="239 414 1253 552">Sun ONE Application Server 7 does not support the passing of request parameters while displaying the Login page. The applications that uses form-based authentication, which passes the request parameters can not be migrated to Sun ONE Application Server 7. Porting such applications to Application Server 7 requires significant changes in the code. Instead, you can store the input parameters in the session which can be retrieved during the display of Login page.</p> <p data-bbox="239 565 1253 591">The following code example demonstrates the workaround:</p> <p data-bbox="239 605 1253 631">Before changing the code in 6.5:</p> <pre data-bbox="239 645 1253 1267">-----index-65.jsp ----- <%@page contentType="text/html"%> <html> <head><title>JSP Page</title></head> <body> go to the secured area </body> </html> -----login-65.jsp----- <%@page contentType="text/html"%> <html> <head> </head> <body> <!-- Print login form --> <h3>Parameters</h3>
 <%out.println("arg1 is " + request.getParameter("arg1")); %> <%out.println("arg2 is " + request.getParameter("arg2")); %> </body> </html></pre> <hr/>

ID	Summary
4913290 (Continued)	<p data-bbox="307 227 1338 262">After changing the code in 7.0:</p> <pre data-bbox="357 277 1013 590">-----index-7.jsp ----- <%@page contentType="text/html"%> <html> <head><title>JSP Page</title></head> <body> <%session.setAttribute("arg1","test"); %> <%session.setAttribute("arg2","me"); %> go to the secured area </body> </html></pre> <p data-bbox="307 607 1338 633">The index-7.jsp shows how you can store the request parameters in a session.</p> <pre data-bbox="357 651 1228 1015">-----login-7.jsp----- <%@page contentType="text/html"%> <html> <head> </head> <body> <!-- Print login form --> <h3>Parameters</h3>
 <!--retrieving the parameters from the session --> <%out.println("arg1 is " + (String)session.getAttribute("arg1")); %> <%>out.println("arg2 is " + (String)session.getAttribute("arg2")); %> </body> </html></pre>

ID	Summary
4913611	<p data-bbox="239 239 749 265">J2EE spec incompatibilities are not documented.</p> <p data-bbox="239 282 328 309">Solution</p> <p data-bbox="239 326 1253 378">Developer's Guide to Web Applications: The following note applies to the description of the delegate attribute:</p> <p data-bbox="239 395 1253 499">"If the delegate flag is set to its default value of false, the classloader delegation behavior complies with the Servlet 2.3 specification, section 9.7.2. If set to true, classes and resources residing in container-wide library JAR files are loaded in preference to classes and resources packaged within the WAR file, contrary to what this specification recommends.</p> <p data-bbox="239 517 1253 595">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="239 612 1253 664">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="239 682 1253 760">"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="239 777 1253 911">Portable programs should not assume that a copy of the object is made during such a call, and thus that it's safe to modify the original. Nor should they assume that a copy is not made, and thus that changes to the object are visible to both caller and callee. When this flag is set, parameters and return values should be considered read-only. The behavior of a program that modifies such parameters or return values is undefined."</p>
4915451	<p data-bbox="239 928 1092 954">The definition of idle-timeout-in-seconds in the Administrator's Guide is incorrect.</p> <p data-bbox="239 972 328 998">Solution</p> <p data-bbox="239 1015 1253 1067">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 1085 1253 1137">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 1154 499 1180">This should be changed to:</p> <p data-bbox="239 1197 1253 1241">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>

ID	Summary
4950035, 4976502, 5024804	<p data-bbox="307 225 1338 286">The information on enabling statistics with stats-xml in the Performance Tuning Guide is incorrect.</p> <p data-bbox="307 286 1338 321">Solution</p> <p data-bbox="307 321 1338 407">In the <i>Sun ONE Application Server Performance Tuning Guide</i> in the “Tuning Sun ONE Application Server” chapter, the description of enabling statistics with <code>stats-xml</code> contains the following errors:</p> <ul data-bbox="307 407 1338 486" style="list-style-type: none"><li data-bbox="307 407 1338 442">• You must make the change to the <code>instance_name-obj.conf</code> file, not the <code>obj.conf</code> file as stated.<li data-bbox="307 442 1338 486">• The example is incorrect. The entries for:<pre data-bbox="399 486 1338 572">NameTrans fn="assign-name" from="/stats-xml/*" name="stats-xml" and NameTrans fn=assign-name from="/.perf" name="perf"</pre>must appear before the line:<pre data-bbox="399 572 1338 633">NameTrans fn=document-root root="\$docroot"</pre>otherwise they'll be ignored. The current example does not have the lines in the correct order. <p data-bbox="307 633 1338 668">• The introductions to Figure 4.1 and Figure 4.2 are incorrect.</p> <p data-bbox="307 668 1338 720">Figure 4.1 should say that it shows a sample <code>instance_name-obj.conf</code> file which has <code>stats-xml</code> enabled.</p> <p data-bbox="307 720 1338 772">Figure 4.2 should say that is shows a sample <code>init.conf</code> file which has <code>stats-xml</code> enabled.</p>

ID	Summary
4983280, 4992520, 6078104	<p data-bbox="239 244 828 267">Web server plug-in installation instructions are incorrect</p> <p data-bbox="239 282 1220 335">In the <i>Sun ONE Application Server Administrator's Guide</i>, the instructions for installing the web server plug-in are incorrect.</p> <p data-bbox="239 352 325 374">Solution</p> <p data-bbox="239 392 591 414">The procedure should be as follows:</p> <p data-bbox="239 432 572 454">Changes to Sun ONE Web Server</p> <p data-bbox="239 472 1150 524">Take backups of critical configuration files, such as <code>magnus.conf</code> and <code>obj.conf</code>, before making changes to these files.</p> <ol data-bbox="239 541 1220 593" style="list-style-type: none"> 1. Create a directory in the web server installation area that will contain the web server (passthrough) plug-in. For example: <pre data-bbox="289 611 611 680">cd /webserv_ install_dir/plugins mkdir -p passthrough/bin</pre> 2. Copy the passthrough plug-in from Sun ONE Application Server installation to this new, web server directory. For example: <pre data-bbox="289 767 1011 836">cd appserver_ install_dir/lib cp libpassthrough.so webserv_ install_dir/plugins/passthrough/bin</pre> <p data-bbox="239 862 676 885">For Windows, copy the <code>passthrough.dll</code> file.</p> <ol data-bbox="239 902 1220 1506" style="list-style-type: none"> 3. Edit the <code>magnus.conf</code> file, found under <code>webserv_ install_dir/https-host.domain/config</code>, and append the following lines. These lines need to be entered as 2 lines, each starting with <code>Init</code>. <pre data-bbox="289 972 1210 1085">Init fn=load-modules shlib="your_app_server_ install/lib/libpassthrough.so "funcs="init-passthrough,auth-passthrough,check-passthrough, service-passthrough"NativeThread="no" Init fn="init-passthrough"</pre> 4. Edit the web server's <code>obj.conf</code> file, found under <code>webserv_ install_dir/https-host.domain/config</code>, and add the <code>NameTrans</code> directive. It must be entered on a single line. The <code>NameTrans</code> directives are executed in the order they appear, so make sure your addition is in proper position. If in doubt, put it above all other <code>NameTrans</code> directives. Be careful with whitespace (spaces/tabs) in this file. The way <code>obj.conf</code> gets parsed causes lines that start with whitespace to be ignored, since they are considered to be part of the previous line's directive. The example below only redirects for a context root named "webapp-context". Add more context root names for multiple applications, or use a catch-all directive: <code>from="/*"</code> <pre data-bbox="289 1336 1119 1492"><Object name="default"> NameTrans fn="assign-name" from="(/webapp-context /webapp-context/*) "name="passthrough" ... </Object></pre>

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

ID	Summary
4986222	<p data-bbox="239 244 639 267">Clarify documentation relating to JMS.</p> <p data-bbox="239 284 1190 307">The documentation refers to an incorrect version of the Sun ONE Message Queue documentation.</p> <p data-bbox="239 324 1222 401">The description of the <code>server.xml</code> <code>jms-service</code> property <code>instance-name</code> is incorrect in the <i>Administrator's Configuration File Reference</i> and in the <i>Developer's Guide to J2EE Features and Services</i> is incorrect.</p> <p data-bbox="239 418 325 440">Solution</p> <p data-bbox="239 458 1015 512">For the correct version of the Sun ONE Message Queue documentation, refer to http://docs.sun.com/db/prod/s1.s1msgqu.</p>
5003309	<p data-bbox="239 626 1222 649">Administrator's Guide: the section titled "Deploying Static Content" contains an incorrect URL.</p> <p data-bbox="239 666 325 689">Solution</p> <p data-bbox="239 706 334 729">The URL:</p> <p data-bbox="239 746 743 769"><code>http://server:port/NASApp/&ltcontext_root/index.html</code></p> <p data-bbox="239 786 344 808">Should be:</p> <p data-bbox="239 826 636 848"><code>http://server:port/tcontext_root/index.html</code></p>
N/A	<p data-bbox="239 876 882 899">J2EE CA SPI Administrator's Guide refers to wrong book title.</p> <p data-bbox="239 916 1183 970">The <i>Sun ONE Application Server J2EE CA SPI Administrator's Guide</i> refers to <i>Sun ONE Application Server J2EE CA SPI Developer's Guide</i>. This title is incorrect.</p> <p data-bbox="239 987 325 1010">Solution</p> <p data-bbox="239 1027 1019 1050">These references should be to the <i>Sun ONE Application Server Developer's Guide</i>.</p>
N/A	<p data-bbox="239 1067 1222 1121">Sun ONE Application Server Administrator's Guide doesn't document using escape characters for the asadmin utility properly for Linux.</p> <p data-bbox="239 1138 325 1161">Solution</p> <p data-bbox="239 1178 1222 1312">When using the <code>asadmin</code> command in multimode on Linux, use a single backslash character to escape reserved characters such as colons. For example: <pre data-bbox="239 1208 1122 1312">create-jdbc-connection-pool --datasourceclassname oracle.jdbc.pool.OracleDataSource --property url=jdbc\:oracle\:thin\:@1asperf\:1521\:ntdb01":user=testprod:password=testprod rekla-pool</pre></p> <p data-bbox="239 1329 1222 1352">The value of the URL property will then be stored with the proper syntax for a JDBC connection string</p>

ID	Summary
5015994	<p data-bbox="318 244 1001 262">Additional recommended configurations to improve performance.</p> <p data-bbox="318 282 408 300">Solution</p> <p data-bbox="318 326 1279 401">If you change the default Sun ONE Application Server configuration by using the settings described below, you may see improved performance. These settings are found in your server instance's <code>server.xml</code> file.</p> <p data-bbox="318 421 676 439">Add or change the following settings:</p> <pre data-bbox="318 465 1308 812"><jvm-options>-server -Xss128k</jvm-options> <jvm-options>-Xms256m -Xmx256m</jvm-options> <jvm-options>-XX:+AggressiveHeap</jvm-options> <jvm-options>-XX:+DisableExplicitGC</jvm-options> <jvm-options>-Djavax.rmi.CORBA.UtilClass=com.ipplanet.ias.util.orbutil.IasUtilDelegate </jvm-options> <orb message-fragment-size="1024" steady-thread-pool-size="40" max-thread-pool-size="70" idle-thread-timeout-in-seconds="300" max-connections="1024" monitoring-enabled="false"/> <mdb-container steady-pool-size="32" pool-resize-quantity="16" max-pool-size="1024" idle-timeout-in-seconds="600" monitoring-enabled="false"></pre> <p data-bbox="318 829 605 847">Remove the following setting:</p> <pre data-bbox="318 873 1058 890"><jvm-options>-Dsun.rmi.dgc.server.gcInterval=3600000</jvm-options></pre> <p data-bbox="318 911 1269 963">In addition, if the machine has enough memory, you should increase the initial heap size to 1024M (3500M on Solaris systems).</p>

ID	Summary												
5031531	<p data-bbox="239 244 1143 269">The Performance Tuning Guide does not include information on maximum heap space.</p> <p data-bbox="239 284 325 309">Solution</p> <p data-bbox="239 324 765 348">The maximum heap space depends of various factors:</p> <ul data-bbox="239 364 796 473" style="list-style-type: none"><li data-bbox="239 364 739 388">• Maximum address space for a process (<code>maxPAS</code>)<li data-bbox="239 404 796 428">• Space that the process needs for stack space (<code>stack</code>)<li data-bbox="239 444 746 468">• Space that the process needs for libraries (<code>libs</code>) <p data-bbox="239 487 915 512">The following equation shows the value for the maximum heap space:</p> $\text{MaxHeapSpace} = \text{maxPAS} - \text{stack} - \text{libs}$ <p data-bbox="239 574 829 598">The maximum address space per process varies by platform:</p> <table data-bbox="287 618 672 869"><tbody><tr><td>x86 / Redhat Linux 32 bit</td><td>2 GB</td></tr><tr><td>x86 / Redhat Linux 64 bit</td><td>3 GB</td></tr><tr><td>x86 / Win98/2000/NT/Me/XP</td><td>2 GB</td></tr><tr><td>x86 / Solaris x86 (32 bit)</td><td>4 GB</td></tr><tr><td>Sparc / Solaris 32 bit</td><td>4 GB</td></tr><tr><td>Sparc / Solaris 64 bit</td><td>terabytes</td></tr></tbody></table> <p data-bbox="239 888 822 913">Stack space and library space vary by individual application.</p>	x86 / Redhat Linux 32 bit	2 GB	x86 / Redhat Linux 64 bit	3 GB	x86 / Win98/2000/NT/Me/XP	2 GB	x86 / Solaris x86 (32 bit)	4 GB	Sparc / Solaris 32 bit	4 GB	Sparc / Solaris 64 bit	terabytes
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x86 / Solaris x86 (32 bit)	4 GB												
Sparc / Solaris 32 bit	4 GB												
Sparc / Solaris 64 bit	terabytes												
6156869	<p data-bbox="239 933 1225 982">No documentation on migrating from Sun ONE Message Queue 3.0.1 to Sun ONE Message Queue 3.5</p> <p data-bbox="239 1001 1225 1105">Sun ONE Application Server 7 is shipped with Sun ONE Message Queue 3.01. However, Sun ONE Message Queue 3.5 is also supported. To migrate from Sun ONE Message Queue 3.01 to Sun ONE Message Queue 3.5, follow the instructions in the <i>Sun ONE Message Queue Installation Guide</i> on the docs.sun.com web site. See:</p> <p data-bbox="239 1124 793 1149">http://docs.sun.com/source/817-3725/intro.html#wp23155</p>												

Redistributable Files

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

How to Report Problems and Provide Feedback

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

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

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

- The telephone dispatch number associated with your maintenance contract

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

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

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Additional Sun Resources

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

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