

Sun Java™ System Application Server Standard and Enterprise Edition Release Notes

Version 7 2004Q2 Update 4

Part Number 819-4193

These release notes contain important information available at the time of the release of the Sun Java™ System Application Server Standard and Enterprise Edition 7 2004Q2 Update 4. 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 product.

This document contains the following sections:

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Release Notes Revision History

This section lists the changes that have been made in these release notes after the initial release of the Sun Java System Application Server 7 Standard and Enterprise Edition product.

Revision Date	Description of Change
April 2005	Update 3 release of Sun Java System Application Server 7 2004Q2 Standard and Enterprise Edition
January 2005	Update 2 release of Sun Java System Application Server 7 2004Q2 Standard and Enterprise Edition
September 2004	Update 1 release of Sun Java System Application Server 7 2004Q2 Standard and Enterprise Edition
May 2004	Initial release of Sun Java System Application Server 7 2004Q2 Standard and Enterprise Edition

What's New

The Sun Java System Application Server 7 Standard and Enterprise Edition 2004Q2 Update 4 provides a high-performance J2EE platform suitable for broad deployment of application services and web services. The following changes have been made to the Update 4 release:

- **Stability and Quality Fixes**

Update 4 release fixes a number of performance, stability, scalability, and availability fixes, providing improved experience over Sun Java System Application Server 7 2004Q2.

- **J2SE 1.4.2_08**

The JVM version has been upgraded to 1.4.2_08.

- **JWSDP 1.5.1 Plug-in for Application Server**

Java Web Services Developer Pack v1.5.1 Plug-in is available for Sun Java System Application Server Standard and Enterprise Edition 7 2004Q2 Update 4. The plug-in can be downloaded at the following URL: <http://www.sun.com/download/products.xml?id=432b5f8e>

- **Latest HADB Management System**

- The UNIX® platforms contain the new high availability database (HADB) management system (HADB version 4.4.2-7). This eliminates the dependency on SSH/RSH, but requires that the network be configured for UDP multicast. For details, see Chapter 21, “Administering the High-Availability Database” in Sun Java System Application Server 7 2005Q2 Update 3 Administration.
- A new management command `hadbm setadminpassword` has been implemented to allow changing the password used for database administration. The command takes options indicating which management agent to use, and the old and new password.
- The existing management command `hadbm listpackages` has been modified. Previously, the command took no operands, and listed all packages in the relevant management domain. The modifications introduces an optional package name operand, and lists only packages with that name. If the operand is not provided, all packages are listed. For more information, see the `hadbm listpackages` manpage.
- The existing management command `hadbm createdomain` has been modified. The **hostlist** operand is extended to also specify the port number of the management agent. In this way, the domain is completely specified using only the `hostlist` operand. The old behavior is still supported for backward compatibility. For more information, see the `hadbm createdomain` manpage.
- Some of the error messages from the management system have been modified. The modifications are intended to improve understandability, consistency and accuracy of the error messages. The actual modifications are not listed in these release notes.
- The installation and uninstallation behavior has been slightly changed. Installing or uninstalling the HADB should always preserve the softlink `/opt/SUNWhadb/4`, but this has not always been the case:
 - On Solaris, since HADB 4.3, any new installation of the SVR4 package `SUNWhadb-4.x.y.z` has modified the softlink `4` to `4.x.y.z`.
 - On Linux, since HADB 4.4.1, uninstallation of the RPM package `sun-hadb-c-4.4.1.b` would fail during the “preun” pre-uninstall script if the softlink, `4`, pointed to something non-existent (e.g., the non-existing `4.4.1.a` directory left after uninstalling `sun-hadb-c-4.4.1.a`).

These two problems have now been fixed.

- For `hadbm` commands, it has previously been possible to enter a password as:
 - A password file
 - A command line option

- An interactive input

Using the command line option method is considered unsafe, and is therefore deprecated. A warning message is issued if a password is entered in this way. Instead, use a password file, or interactive output. Using a password at the command line will become obsolete in the next release. Note this applies to all `hadbm` commands taking a command line password option.

- HADB has been upgraded to use JGroups Version 2.2, and its source code is distributed along with the HADB. To support online upgrade from a previous HADB version, both JGroups 2.1 and 2.2 are delivered with HADB. For JGroups 2.1, byte code is delivered only.

Platform Summary

This section provides information on supported platform components for the Sun Java System Application Server Standard and Enterprise Edition 7 2004Q2 Update 4.

This section includes:

- [Operating Systems and Distribution Types](#)
- [System Requirements](#)
- [JDBC Drivers and Databases](#)
- [Web Servers](#)
- [Software Packages](#)
- [Browsers](#)

Operating Systems and Distribution Types

The following table identifies the supported operating systems and distribution types for Sun Java System Application Server 7 2004Q2 Update 4:

Table 1 Supported Operating Systems and Distribution Types

Platform	Operating System Version	Distribution Type	Application Server 7 2004Q2 Update 1 Edition
Solaris SPARC®	Solaris 8 Update 7, Solaris 9 Update 6, Solaris 10 ¹	file-based and package-based ²	Standard and Enterprise Edition
Solaris x86	Solaris 9 Update 4, Solaris 10	file-based and package-based	Standard and Enterprise Edition
Linux x86 ³	Red Hat Advanced Server 2.1 Update 3, Red Hat Advanced Server 3	file-based and RPM-based	Standard and Enterprise Edition
Microsoft Windows ⁴	Windows 2000: Server Service Pack 2 Windows 2000: Advanced Server Service Pack 2 Windows 2000: Professional Service Pack 2 Windows 2003 Windows XP: Professional	file-based	Standard and Enterprise Edition

¹On Solaris 10, both file-based and packaged based installs are supported. Only global zone is supported. Local zones or local sparse root zone is not supported.

² Superuser privileges are required for installing package-based and RPM-based distributions.

³ On Red Hat Advanced Server 2.1, HADB supports devices on `ext2` file systems only.

⁴ On Windows XP Professional, only Standard Edition is available.

System Requirements

The following table summarizes the Sun Java System Application Server 7 Standard and Enterprise Edition 2004Q2 Update 4 requirements.

Table 2 Platform Requirements for Sun Java System Application Server

Operating System	Architecture	Minimum Memory	Recommended Memory	Minimum Disk Space	Recommended Disk Space
Sun Solaris 8, 9, or 10 for SPARC	32 and 64 bit ⁴	256 MB	1024 MB	250 MB free	500 MB free
Solaris x86, Version 9 and 10	32 bit	1.5 GB (with co-located HADB)	2 GB (with co-located HADB)		
Red Hat Enterprise Linux 2.1, 3					
Windows 2000: Server Service Pack 2 Windows 2000: Advanced Server Service Pack 2 Windows 2000: Professional Service Pack 2 Windows 2003 Windows XP: Professional	x86 32 bit				

⁴ 32 and 64 bit here refers to the supported OS. Sun Java System Application Server is a 32 bit application.

- On UNIX, you can check your operating system version using the `uname` command. Disk space can be checked using the `df` command.
- On Solaris, ensure that the system-wide instance of perl under `/usr/bin/perl` is in the path. Application Server installation will fail if the default perl installation is not found.
- HADB is not supported on Microsoft Windows or Red Hat Enterprise Linux operating system versions in 64 bit mode. On Solaris (x86), HADB has been tested only in 32 bit mode of the operating system.
- HADB uses Intimate Shared Memory (`SHM_SHARE_MMU` flag) when it creates and attaches to its shared memory segments. The use of this flag essentially locks the shared memory segments into physical memory and prevents them from being paged out. Therefore, HADB database's shared memory is locked into physical memory, which can easily impact installations on low end machines. Ensure you have the recommended amount of memory when co-locating Application Server and HADB.

JDBC Drivers and Databases

The Sun Java System Application Server Standard and Enterprise Edition is designed to support connectivity to any DBMS with a corresponding JDBC driver. For a list of components that Sun has tested and found to be acceptable for constructing J2EE compatible database configurations, refer to the following table:

Table 3 Supported JDBC Drivers

JDBC Vendor	JDBC Driver Type	Supported Database Server
PointBase 4.2	Type 4	PointBase Network Server 4.2
JConnect 5.5	Type 4	Sybase ASE 12.5
DataDirect 3.2	Type 4	MS SQL Server 2000 Service Pack 1
DataDirect 3.2	Type 4	Oracle 8.1.7
DataDirect 3.2	Type 4	Oracle 9.2.0.1
Oracle 9.2.0.3	Type 2 (OCI)	Oracle 9.2.0.3+ w/ RAC
Oracle 10.1.0.2	Type 4 and Type 2 (OCI)	Oracle 10g
IBM	Type 2	IBM DB2 8.1 Service Pack 3

Additional drivers have been tested to meet the JDBC requirements of the J2EE 1.3 platform with the JDBC Driver Certification Program. These drivers can be used for JDBC connectivity with Sun Java System Application Server. While Sun offers no product support for these drivers, we will support the use of these drivers with the Sun Java System Application Server.

Web Servers

This section lists the web servers that are supported for the Sun Java System Application Server 7 2004Q2 Update 4 Standard and Enterprise Edition.

Table 4 Supported Web Servers

WebServer	Version	Operating System
Sun Java System Web Server	6.0 Service Pack 6	Solaris SPARC 8 and 9 Red Hat Enterprise Linux 2.1 x86 Windows 2000: Server Service Pack 2 Windows 2000: Advanced Server Service Pack 2 Windows 2000: Professional Service Pack 2 Windows 2003 Windows XP: Professional HP-UX 11i

Table 4 Supported Web Servers

WebServer	Version	Operating System
Sun Java System Web Server	6.1	Solaris SPARC 8 and 9, Solaris 9 x86, Red Hat Enterprise Linux 2.1 Windows 2000: Server Service Pack 2 Windows 2000: Advanced Server Service Pack 2 Windows 2000: Professional Service Pack 2 Windows 2003 Windows XP: Professional HP-UX 11i
Apache Web Server	1.3.29, 2.0.49	Solaris SPARC 8 and 9, Solaris 9 x86, Red Hat Enterprise Linux 2.1, 3, Windows 2000: Server Service Pack 2 Windows 2000: Advanced Server Service Pack 2 Windows 2000: Professional Service Pack 2 HP-UX 11i
Microsoft IIS	5.0	Windows 2000: Server Service Pack 2 Windows 2000: Advanced Server Service Pack 2 Windows 2000: Professional Service Pack 2 Windows XP: Professional and Windows 2003 (Standard Edition of Application Server Only)

Software Packages

This section lists the associated software packages that are supported for Sun Java System Application Server Standard and Enterprise Edition 7 2004Q2 Update 4.

Table 5 Version of Component for Bundling with Application Server

Component	Version used in Application Server 7.0 Platform and Standard Edition	Version used in Application Server 7.0 Enterprise Edition	Version used in Application Server 7 2004Q2 Standard and Enterprise Edition	Version used in Application Server 7 2004Q2 Update 1 Standard and Enterprise Edition	Version used in Application Server 7 2004Q2 Update 4 Standard and Enterprise Edition
J2SE	1.4.0_02	1.4.1_03	1.4.2_04	1.4.2_05	1.4.2_08
PointBase	4.2	n/a	4.2 (Standard Edition Only)	4.2 (Standard Edition Only)	4.2 (Standard Edition Only)

Table 5 Version of Component for Bundling with Application Server

Component	Version used in Application Server 7.0 Platform and Standard Edition	Version used in Application Server 7.0 Enterprise Edition	Version used in Application Server 7 2004Q2 Standard and Enterprise Edition	Version used in Application Server 7 2004Q2 Update 1 Standard and Enterprise Edition	Version used in Application Server 7 2004Q2 Update 4 Standard and Enterprise Edition
Sun Java System Message Queue Standard Edition	3.0.1	3.0.1	3.5 Service Pack 1	3.5 Service Pack 1	3.5 Service Pack 2
JWSDP	1.0_01	1.0_01	1.0_01	1.0_01	1.0_01 ⁵

⁵ Use the JWSDP 1.4 common components available in the product CD to upgrade your JWSDP installation.

Browsers

This section lists the browsers that are supported with the Sun Java System Application Server Standard and Enterprise Edition 7 2004Q2 Update 4.

Table 6 Browsers Supported

Browser	Version
Netscape Navigator	4.79, 6.2
Internet Explorer	5.5 Service Pack 2, 6.0

Solaris Patches Required

Solaris 8 users must install the Sun recommended patch cluster, available in the Recommended and Security Patches section at:

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

The required patches for Solaris 8 are 109326-06, 108827-26, and 110934 (any revision, for packaged-based installation only). Without these patches, which the installer checks for, you won't be able to install or run the Sun Java System Application Server 7 2004Q2 Update 4 software. These patches are already contained in the latest recommended patch cluster.

Upgrade Options

This section contains the following topics:

- [Upgrading Sun Java System Application Server](#)
- [Upgrading the High Availability Database](#)

Upgrading Sun Java System Application Server

The Sun Java System Application Server Standard and Enterprise Edition 7 2004Q2 Update 4 installer allows you to upgrade from a previous version of the Application Server to the current version. The various Application Server installations on all the supported platforms can be upgraded to their corresponding version on the same platform and installation type. The following table identifies the upgrade options available.

Table 7 Upgrade Options Available

Currently Installed Product	Can Be Upgraded to Sun Java System Application Server 7 2004Q2 Update 4:
Sun ONE Application Server 7.0 Platform Edition	Standard Edition Enterprise Edition
Sun ONE Application Server 7.0 Standard Edition, Update 1, Update 2, and Update 3	Standard Edition Enterprise Edition
Sun ONE Application Server 7.0 Enterprise Edition	Enterprise Edition
Sun Java System Application Server 7 2004Q2 Standard and Enterprise Edition	Standard Edition Enterprise Edition

- Under certain conditions, an upgrade operation from base installation (Sun ONE Application Server 7.0) to a newer version of Sun Java System Application Server 7 2004Q2 may result in an automatic product uninstall. Do not use the upgrade feature of Application Server 7 2004Q2. Instead perform a manual migration.
- Installing or Upgrading Japanese and Simplified Chinese Application Server 7 2004Q2 Update 4.

Sun Java System Application Server Standard and Enterprise Edition 7 2004Q2 Update 4 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 4. On Solaris 10, use the file-based installation for these locales. Once you have upgraded to Update 4, your localized version of the software will contain all the latest fixed bugs.

- After an upgrade, you must compare the new configuration files with the original files in the backup directory for any changes. Custom settings made in the original configuration files might not be carried over to the new files after upgrading. You might experience issues during server restart if the new configuration files are not in sync with the older files that contained customized settings. The following files will be effected during an upgrade:
 - All *.conf files in *install_dir*/config.
 - server.xml (Admin and server instance)
 - Admin and server instance startserv scripts.
 - Admin and server instance server.policy file.
 - Server instance sun-acc.xml file.
 - docroot/index.html file.

For more details on this and other important prerequisites for upgrading, see *Sun Java System Application Server Standard and Enterprise Edition 7 2004Q2 Update 2 Installation Guide*.

Upgrading the High Availability Database

This section contains the following topics:

- [Pre-upgrade Tasks/Data Migration](#)
- [Upgrade Procedure](#)
- [Testing the Upgrade](#)

Pre-upgrade Tasks/Data Migration

Before you begin the upgrade, keep the HADB history files, management agent configuration files, log files and repository, and all the data devices outside the installation path. Use the following procedure to move the management repository and configuration files:

1. Stop all the old management agents and keep the HADB nodes running.
2. On each host, move the repository directory to the new location.
3. On each host, copy the dbconfig directory to the new location.

4. On each host, update the `mgt.cfg` file, and set the correct path for `dbconfig` and repository directory.
5. Start the management agents using the updated `mgt.cfg` file.

Upgrade Procedure

To upgrade from HADB version 4.4.x to version 4.4.2-7, use the following procedure:

1. Perform the pre-upgrade tasks mentioned under [“Pre-upgrade Tasks/Data Migration” on page 11](#).
2. Install HADB version 4.4.2-7 on all HADB hosts (on another path than that of version 4.4.x, for instance on `/opt/SUNWhadb/4.4.2-7`).
3. Install the HADB 4.4.2-7 version on the `hadbm` client hosts, if they are different than that of the HADB hosts.
4. Stop all management agents running on all HADB hosts.
5. Start the management agent processes using the HADB 4.4.2-7 software, with the old configuration files. In the remaining steps, use the `hadbm` command found in the HADB 4.4.2-7 `/bin` directory.
6. Register the package in the management domain (default package name becomes V4.4, so another package name may be required to avoid conflicts with existing packages having the same name):

```
hadbm registerpackage --packagepath=/opt/SUNWhadb/4.4.2-7 V4.4.2-7
```

7. Run the `hadbm listpackages` command and check that the new package is registered in the domain.
8. Restart the database with the new `hadbm` version 4.4.2-7. If it is necessary to move the devices and history files, run online upgrade combined with setting new paths for devices and history files in one single operation:

```
hadbm set packagename=V4.4.2-7,devicepath=new_devpath,historypath=new_histpath
```

If the devices and history files are already outside the installation directory, run the following command, which only does a rolling restart of the nodes:

```
hadbm set packagename=V4.4.2-7 database name
```

9. Check that the database status is "running" (using the `hadbm status` command) and that it functions normally, serving the client transactions.

10. If everything is working, the old installation can be removed later. Before unregistering the old package, remove all references to the old package from the `ma` repository. Otherwise, `hadbm unregisterpackage` will fail with "package in use" error message. A dummy reconfiguration operation, for instance, `hadbm set connectiontrace=same` as previous value will remove all references to the old package.
11. Unregister the old package:

```
hadbm unregisterpackage [--hosts=host-list] old package name
```
12. Remove the old installation from the file system.

Testing the Upgrade

On Solaris, to test that the upgrade was successful, check that the upgrade was performed properly using the following procedure:

1. Ensure that the running processes use the new binaries. Check the following in all HADB nodes:

```
new path/bin/ma -v
```

```
new path/bin/hadbm -v
```
2. Check whether the database is running. The following command should show that all the HADB nodes are in a "running" state.

```
new path/bin/hadbm status -n
```
3. Ensure that the products using HADB have changed their pointers to point to the new HADB path.
4. The products using the HADB can run their upgrade tests to verify the HADB upgrade is also working.
5. After an online upgrade, if the new version does not work properly, go back to using the previous HADB version. However, if there has been a change to the management agent repository, the HADB itself can be downgraded, but the new management agent must be kept running.

Using Migration Tool

If you have an existing J2EE application that runs on another vendor's application server, you can use the Sun Java System Migration Tool to migrate the application and run it on the Sun Java System Application Server 7 2004Q2 Update 4 release. The migrated application will run on the Sun Java System Application Server 7 2004Q2 release without any modifications. However, to use the high availability features, change the DTD version of the `sun-ejb-jar.xml` deployment descriptors to point to `sun-ejb-jar_2_0-1.dtd` instead of `sun-ejb-jar_2_0-0.dtd`.

Sun ONE Studio 5 Standard Edition Update 1

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

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

Other IDEs that you can use include, Sun Java Studio 5 Standard Edition Update 1, Sun Java Studio Enterprise 6 2004Q1 and other 3rd party IDEs, for example, Borland's JBuilder X.

Other Requirements and Limitations

- Enabling fix for bug id 6275091: `getServerPort()` returns port 80 if the Host header does not contain port number.

By default, the fix for this bug is disabled. To enable the fix, modify your web server's configuration files and Application Server's `server.xml` file as described in the following procedure:

a. Modify `magnus.conf`.

For `Init fn="load-modules"` **add** `init-passthrough` **and** `service-passthrough` **in** `funcs`.

Example:

```
funcs="init-passthrough,service-passthrough,name-trans-passthrough,change_host
header_init,change_hostheader"
```

b. Enable the change by specifying:

```
Init fn="change_hostheader_init" enabled="true" debug="false"
```

By default, this flag is disabled. Set `debug="true"` to enable logging for the fix. By default, it is disabled.

If you set `enabled="false"` your `getServerPort` will return the port number as it used to do earlier. If you set `enabled="true"`, `getServerPort` will return the Application Server port you specify in `server.xml`.

c. Modify `obj.conf`.

After `PathCheck fn="deny-existance" path="*/WEB-INF/*`, add

```
Service fn="change_hostheader" inside <Object name="lbplugin">.
```

d. Modify `server.xml`.

In `server.xml`, change the `servername` format to `servername="hostname:port"`.

The hostname should be the same as before. Change the port number to the Application Server instance's port number. The port number specified here will be returned by the `getServerPort()` method.

In some cases, the `servername` attribute might be specified as `server-name`.

- **High Availability Requirements and Limitations**

The following high availability requirements must be met before configuring the Sun Java System Application Server High Availability component:

- HADB requires 512 MB minimum memory and 1GB recommended memory to work properly with the Application Server.

If you install Application Server and HADB on the same machine, the minimum memory required is 1.5GB and the recommended memory is 2GB.

- HADB supports IPv4 only.
- The network must be configured for UDP multicast.
- Do not use dynamic IP addresses (DHCP) for hosts used in `create domain`, `extend domain`, `hadbm create`, or `hadbm addnodes` commands.
- If running HADB on Red Hat Linux 3.0, you must install Update 4 to avoid problems with excessive swapping by the operating system. Application Server has not been tested with Red Hat Linux 3.0 Update 4. See bug id 6158393.
- HADB does not support any Microsoft Windows or Red Hat Enterprise Linux operating system version in 64 bit mode.

- HADB File System Support: There are several important considerations before you configure HADB to use one of the supported file systems.
- Make sure write caching is disabled for hard drives storing data devices and log files.
 - On RedHat Linux, use the `/sbin/hdparm` utility for IDE disks. The command `/sbin/hdparm -W0 /dev/hda` disables write caching for disk `hda`. Use `/sbin/hdparm -I device` to get detailed status information about the drive. For SCSI disks, the `sdparm` utility (<http://sg.torque.net/sg/sdparm.html>) must be downloaded and installed, because it is not part of the default RedHat Linux Advanced Server distribution. Be very careful using these utilities, as they can be harmful to your hard drive if used incorrectly.
 - On Solaris (SPARC or x86), the `format -e` utility should be used. Make sure the `-e` option is used, otherwise, the 'cache' entry will not be present in the command menu.
 - On Windows, open the Device Manager. Find your hard drive, bring up its properties, and select the Disk Properties tab. A checkbox indicates whether write caching is enabled.

For details on important installation prerequisites and troubleshooting options, see *Sun Java System Application Server Standard and Enterprise Edition 7 2004Q2 Update 2 Installation Guide*.

Accessing the Documentation

The Sun Java System Application Server documentation is provided in a number of ways:

- Manuals—You can view Sun Java System Application Server manuals and release notes in HTML and in printable PDF downloads at:
<http://docs.sun.com/db/prod/sjs.asse>
- Online help—Click the Help button in the graphical interface to launch a context-sensitive help window.
- Man pages—To view man pages at the command line, you must first add `install_dir/man` to your MANPATH environment variable (Solaris unbundled only). After setting the variable, you can access man pages for the Sun Java System Application Server commands by typing `man command_name` on the command line. For example:

```
man asadmin
```


Sun Java System Application Server 7 2004Q2 Update 4 Documentation

The Sun Java System Application Server Standard and Enterprise Edition 7 2004Q2 manuals are available as online files in Portable Document Format (PDF) and Hypertext Markup Language (HTML).

The following table lists tasks and concepts described in the Sun Java System Application Server manuals. The following manuals have been updated for the Sun Java System Application Server 7 2004Q2 Update 4 Standard and Enterprise Edition release. For a full list of all available manuals, see [documentation](#) on the Web.

Table 8 Sun Java System Application Server Documentation

For information about	See the following
Late-breaking information about the software and the documentation. Includes a comprehensive, table-based summary of supported hardware, operating system, JDK, and JDBC/RDBMS.	<i>Release Notes</i>

Resolved Issues

The following table lists the critical issues resolved in Sun Java System Application Server Standard and Enterprise Edition 7 2004 Update 1, Update 2, Update 3, and Update 4 releases.

Table 9 Resolved Issues

Bug ID	Description
6307510	EJBC/RMIC generates STUB/Skel with package name that is not qualified.
6179712	Sample application(JSTL): JSP's cannot be pre-compiled with precompile jsp set to TRUE.
6294169	Can retrieve X509 client cert using javax.servlet.request.X509Certificate attribute only on first access.
6288472	Unable to change the smux port of subagent.
5103186	NSUP unable to start with one net down on Windows 2003.

Table 9 Resolved Issues

Bug ID	Description
6174676/6179084	Unable to run configure-ha-cluster.
6178228/6179010	Failure in configure-ha-cluster.
6181845	Cannot create one data device larger than 2 GB on Windows.
5042351	New tables created after new nodes are added will not spread on the added nodes.
6175436	Second addnodes fails during refragmentation.
6232577	JDBC connection is closed when a <code>txn.delist</code> happens.
6233628	Package-based Installer for upgrade do not work well with domains/instance that is non-root.
6241404	Non-recovery of in-doubt transactions from Application Server.
6249872	If <code>servlet service()</code> method does not terminate, Application Server cannot be shut down.
6251775	Session Timeout does not appear to be taking into account the last accessed time.
6252444	IP-based ACL does not seem to be working on Application Server 7.x
6254469	Japanese character is corrupted when displaying error page.
6255219	Quiescing not working as described.
6267905	<code>appservd</code> takes up CPU resources when primordial <code>appservd</code> is not present.
6275091	Java Servlet: <code>getServerPort()</code> returns port 80 if the host header does not contain port number.
6277733	On Red Hat Linux 3, <code>appservd</code> crashes intermittently when <code>stats-init</code> is on.
6282210	On Application Server 7 2004Q2, Update 3, fix for URL forwarding change in admin GUI does not add to <code>VS-obj.conf</code> .
6289742	Application Server load balancer plug-in loses requests under high loads.
6183117	Incorrect <code>http-headers</code> when using servlet filters for pdf/xls files.
5039674	<code>create-jdbc-connection-pool</code> does not return error with incompatible <code>restype</code> .
6156699	Wrong steps in docs: Configuring the Web Server Plug-in.
6220602	Stateful session being passivated to disk as files is not removed after removal timeout.
6233088	Error replacing tokens in file when installing Application Server 7.
6233123	XA transaction with Oracle and JMS can lose a message when Oracle dies.
6236311	HADB: Too many statement handles allocated.
6240771	EJB classloader does not close JAR input streams.

Table 9 Resolved Issues

Bug ID	Description
6241348	Loadbalancer fails to redirect from HTTPS to HTTP.
6171762	Client JNDI lookups via S1ASCtxFactory fail when jndi-name contains a ".".
4916390	Cannot pass command line options to javac during deployment of applications.
6172138	Entries in statefulsessionbean table is not cleared when SJAS 7.0 2004Q2 EE becomes unresponsive.
6193156	Application Server 7.x crashes with CORE 3148: failed to wait on signals. (Interrupted system call).
6209453	Load balancer does not failover to other clusters when all instances are disabled on one cluster.
6215977	Unable to restrict access to specific file types.
6217658	Security issue.
6218086	Cannot postparse ACLs.
6218460	Transactions can fail due to a transaction timeout even when the JTS timeout is large enough.
6223279	Deployment EJB DD: ejb-ref-name mapping using jndi-name generated incorrectly for those without jndi-name.
6223367	Modification of ACL does not add object into server1-obj.conf.
6223368	Unable to see ACLs in the admin UI.
6230798	Exception thrown during the closure of a connection by the pool leads to a connection leak.
2120798	Require support for DataDirect JDBC driver.
2120799	Runtime reloads collection field during relationship management.
6157465	HADB's full path with version is hard-coded in asenv.conf file.
6170685	Load balancer plug-in does not detect an Application Server hang.
6178431	asadmin CLI does not allow to programmatically delete jvm options from a newly created instance.
2107329	JDBC connection pool does not properly release connections.
2114274	Conflicting cache-control headers are generated.
2114629	Client authentication is not working with load balancer plug-in on Microsoft IIS 5.0.
2114630	Error while creating auth-realm using asadmin CLI.
2119440	request.getAttribute("javax.servlet.error.request_uri") is not working.
4997111	Marshalling problems.

Table 9 Resolved Issues

Bug ID	Description
6156704	Load balancer plug-in on Microsoft IIS has <code>Server</code> hard coded in the HTTP header.
6157453	Servlet filter <code>init()</code> method unable to lookup JNDI Context.
6157473	No error message when failed login to HADB database fails.
6171200	Load balancer plug-in crashes with some URL-encoded URLs.
5084132	HADB: Semaphore routines are not thread-safe.
5097447	HADB: Garbage collection in logstore does not work.
6173355	<code>InvocationException</code> when trying to get database connection when Application Server is restarted
6181948	Input validation error.
6182861	Exceptions with WSI Sample App running against SJSWS 6.1
6156737	Application Server does not start on HP-UX when the heap size is set to 1 GB.
2060927	<code>findByPrimaryKey</code> returns broken bean for <code>char</code> primary key with Sybase.
2058376	EJB compiler failed to generate valid Java code for inner classes.
2075012	Application Server's <code>asadmin</code> utility always requests a password for SSL startup.
2076810	Application Server crashes during deployment of a WAR file.
2078410	SNMP doesn't work when the instance is stopped and started (restart).
2078969	<code>iwsInstanceDeathCount</code> is not being updated.
2079436	Admin Tool works improperly in Application Server 7.0 UR1 Japanese version.
2079785	Deployment fails if remote interface for the bean is named <code>Util</code> .
2080612	<code>appservd.exe</code> crashes when <code>i18n</code> application is accessed using passthrough plug-in with SSL enabled.
2081055	There is a warning message when <code>jdbc/simple</code> sample application is deployed.
2081692	Plugin truncates XML stream.
2084205	<code>ArrayIndexOutOfBoundsException</code> if <code>CMP pk</code> class has non-persistent public fields.
2092977	Application Server running behind SSL off loader needs to convert traffic from HTTP to HTTPS.
2102329	CMP Mapping Error: field does not have valid lower bound reported from Application Server Studio plug-in.
4739569	Virtual server with state of "off" or "disabled" should not be accessible.
4950512	Unable to deploy J2EE application to Application Server running on Windows.

Table 9 Resolved Issues

Bug ID	Description
4953606	Application Server <code>passthrough</code> plug-in splits POST request into two when working with Microsoft IIS.
4989269	LDAP security realm authentication fails if / appears in the user DN.
4992519	Only allow the user who installed the product to perform uninstallation.
4994363	Security role mapping not updated properly.
5001994	<code>javax.servlet.http.HttpServletRequest.getRequestURI</code> returns the decoded request.
5004406	<code>--passwordfile</code> does not work with a mix of uppercase and lowercase characters.
5011751	Unable to deploy CMP when EJBQL with finders using Long datatype input param.
5015561	JCA leaks physical connections if <code>getMetaData()</code> throws <code>ResourceException</code> .
5015994	Configuration changes to improve out-of-the-box performance.
5017695	Cannot deploy <code>.rar</code> without authentication-mechanism.
5020224	Request processing stops on badly-formed header.
5021054	The EJB class loader does not adhere to EJB Spec when loading Java.
5025894	Partial JCA 1.5 functionality requested.
5039545	Web Container sends absolute redirects causing problems with external load balancers or proxies.
5048147	Application Server with <code>zh_CN</code> locale has wrong encoded messages in <code>server.log</code> of <code>server1</code> instance.
5052594	CMR application with multiple keys cannot be deployed to Application Server 7.0x.
5056695	Application Server's Trust database is not populated with default root CA certificates.
5063854	Able to access the last session's information.
2082209	DB2 Server has connection growing after idle time out with DB2 Type II driver.
2103829	Corrupted transaction log files hang Application Server.
2105120	Neither the <code>CNCTXFactory</code> or <code>SIASCTXFactory</code> can be used to programmatically reconnect.
2105121	Application Server does not reconnect to directory server if directory server goes down and comes up.
2120373	Customer unable to use all documented methods to use a third party ORB within an Application Server container.

Table 9 Resolved Issues

Bug ID	Description
5063481	Trace method cannot be disabled.
6066323	clsetup not working on Windows.

Known Problems and Limitations

This section describes known problems and associated workarounds for the Sun Java System Application Server 7 2004Q2 Update 4 Standard and Enterprise Edition.

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

- [Installation and Uninstallation](#)
- [Server Startup and Shutdown](#)
- [Database Driver](#)
- [Logging](#)
- [Web Container](#)
- [Message Service and Message-Driven Beans](#)
- [Java Transaction Service \(JTS\)](#)
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- [Documentation](#)

Installation and Uninstallation

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

ID	Summary
6245916/6222700	<p>When upgrading from localized Application Server 7.1 Update 2 to Update 3/Update 4 in Japanese and Simplified Chinese locales, the welcome page is displayed in English.</p> <p>The welcome page (about.html) and the default HTTP server index page (index.html) are from Update 2.</p> <p>Solution</p> <p>After upgrading to Update 4, refer to the English welcome page located at:</p> <p><i>Appserver_Install_Dir/docs/about.html</i></p> <p>To register Sun Java System Application Server, use the following URLs:</p> <p>Japanese: https://www.sun.com/software/product_registration?locale=ja_JP</p> <p>Simplified Chinese: https://www.sun.com/software/product_registration?locale=zh_CN</p> <p>Before creating a new server instance, replace the locale's index.html with a copy of the English index.html.</p> <p>Ensure that you back up your current Japanese or Chinese index.html file.</p> <p>Japanese:</p> <p>Copy <i>Appserver_Install_Dir/lib/install/templates/index.html</i> to <i>Appserver_Install_Dir/lib/install/templates/ja/index.html</i></p> <p>Simplified Chinese:</p> <p>Copy <i>Appserver_Install_Dir/lib/install/templates/index.html</i> to <i>Appserver_Install_Dir/lib/install/templates/zh/index.html</i></p>

ID	Summary
6245424	<p data-bbox="239 241 1079 291">After uninstalling localized versions of Application Server Update 4, the localized packages/RPMs will remain.</p> <p data-bbox="239 309 325 329">Solution</p> <p data-bbox="239 352 996 373">Remove the localized packages/RPMs first and then run the uninstall program.</p> <p data-bbox="239 390 932 411">Perform the following procedure on package-based Solaris installations.</p> <ol data-bbox="239 432 591 453" style="list-style-type: none"> 1. Remove the following packages: <pre data-bbox="239 475 879 618">pkgrm SUNWjaspX SUNWjasdmo SUNWjiquc SUNWjiqu SUNWjaso pkgrm SUNWjjmail SUNWjjaf SUNWjasaco SUNWjascmo SUNWjaspX pkgrm SUNWcaspX SUNWcasdmo SUNWciquc SUNWciqu SUNWcaso pkgrm SUNWcjmail SUNWcjaf SUNWcasaco SUNWcascmo SUNWcaspX</pre> <ol data-bbox="239 637 782 699" style="list-style-type: none"> 2. Run the Application Server uninstall program. 3. Remove the Application Server installation directory. <pre data-bbox="239 718 519 739">rm -rf Appserver_Install_Dir</pre> <p data-bbox="239 758 883 779">Perform the following procedure on RPM-based Linux installations.</p> <ol data-bbox="239 800 558 821" style="list-style-type: none"> 1. Remove the following RPMs: <pre data-bbox="239 843 679 1394">rpm -e SUNWjasaco-7.1.0-02.src.rpm rpm -e SUNWjascmo-7.1.0-02.src.rpm rpm -e SUNWjasdmo-7.1.0-02.src.rpm rpm -e SUNWjaso-7.1.0-02.src.rpm rpm -e SUNWjaspX-7.1.0-02.src.rpm rpm -e SUNWjjaf-7.1.0-02.src.rpm rpm -e SUNWjjmail-7.1.0-02.src.rpm rpm -e SUNWasaco-zh_CN-7.1.0-02.src.rpm rpm -e SUNWascmo-zh_CN-7.1.0-02.src.rpm rpm -e SUNWasdmo-zh_CN-7.1.0-02.src.rpm rpm -e SUNWaso-zh_CN-7.1.0-02.src.rpm rpm -e SUNWaspX-zh_CN-7.1.0-02.src.rpm rpm -e SUNWjaf-zh_CN-7.1.0-02.src.rpm rpm -e SUNWjmail-zh_CN-7.1.0-02.src.rpm</pre> <ol data-bbox="239 1413 782 1475" style="list-style-type: none"> 2. Run the Application Server uninstall program. 3. Remove the Application Server installation directory. <pre data-bbox="239 1494 519 1515">rm -rf Appserver_Install_Dir</pre> <p data-bbox="239 1534 798 1555">Perform the following procedure on Windows installations:</p> <ol data-bbox="239 1576 715 1638" style="list-style-type: none"> 1. Run the Application Server uninstall program. 2. Delete <i>Appserver_Install_Dir</i>.

ID	Summary
6208875	<p>Upgrade installation Failed:java.io.FileNotFoundException</p> <p>File-based upgrade of HADB on Solaris SPARC, Solaris x86, and Linux will encounter problems in certain scenarios, as described here:</p> <p>Installation fails with the following exception:</p> <pre>java.io.FileNotFoundException: /sun/appserver7/./SUNWhadb/4 (Is a directory)</pre> <p>Upgrade scenarios: 7.1RTM/7.1ER1/7.1UR1 file-based upgrade to 7.1UR2.</p> <p>Solution</p> <p>Rename the <i>file-based-installing-directory</i>/SUNWhadb/4 softlink to another name, such as, SUNWhadb/3. Restart the upgrade.</p>
6217112	<p>Incremental installation is not working on Windows platforms.</p> <p>Sample applications can be installed along with Application Server. They cannot be incrementally installed.</p> <p>Solution</p> <p>Select to install sample applications at the beginning of installation. During incremental installations, do not select the sample applications option.</p>
5006942	<p>On Windows, the services created have the start type set by default to “Automatic” after an upgrade.</p> <p>Solution</p> <ol style="list-style-type: none"> 1. Open the Windows services. 2. Change the start type of the servers to “Manual.”
6217097	<p>File-based upgrade performed as a non-root user seems to fail if the Application Server binaries for the upgrade were not downloaded as non-root user.</p> <p>Solution</p> <p>The downloaded binaries need to be owned by the non-root user. The downloaded archive must be unzipped by the user who will do the installation or upgrade. Otherwise this is known to lead to permissions issues while the JDK is being upgraded.</p>

Server Startup and Shutdown

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

ID	Summary
4693581	<p>During Application Server startup, IMQ broker fails with <code>IOException: Not Enough Space</code></p> <p>This error appears when Application Server and the IMQ broker is started simultaneously. The <code>appservd</code> process tries to fork a new process to start the iMQ broker, and fails if there is not enough swap space.</p> <p>Solution</p> <p>Start the IMQ broker process before starting Application Server. For example:</p> <pre>appserver_install_dir/imq/bin/imqbrokerd -name appserver_instance_name -port jms-service port -silent</pre>
4762420	<p>Firewall rules may cause Application Server startup failures.</p> <p>If you have a personal firewall installed, you may experience this problem. The presence of strict firewall rules on the same machine as a Application Server installation may cause startup failures of the Admin Server and App Server instances. Specifically, the Admin Server and App Server instances attempt to establish local connections within the Application Server environment. Since these connection attempts access ports using the host name of the system rather than localhost, local firewall rules may block such attempts.</p> <p>The local firewall may also inadvertently generate alerts saying that either the “Portal of Doom Trojan” attack (for example, TCP connection attempts on port 3700) or similar attacks have occurred when, in fact, such access attempts have been made by the Application Server and are in no way a security threat to your machine. Under some conditions, the port number which the Application Server uses for various local communications may overlap with port numbers used in known popular attacks. Some symptoms of this problem:</p> <ul style="list-style-type: none"> • The administrative and server instance log files contain connection exceptions followed by this message: <code>CORE3186: Failed to set configuration</code> <p>Solution</p> <p>Modify the firewall policy to allow the Application Server to make connection attempts to ports on the local system.</p> <p>To avoid inaccurate alerts concerning possible attacks, either modify the relevant rules or change the conflicting port number(s) used by the Application Server.</p> <p>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 Application Server installation:</p> <pre>domain_config_dir/domain1/admin-server/config/server.xml domain_config_dir/domain1/server1/config/server.xml</pre> <p>where <code>domain_config_dir</code> is the location of your initial server configuration. For example:</p> <p>Solaris 9 integrated install: <code>/var/appserver/domains/...</code></p> <p>Solaris 8, 9 unbundled install: <code>/var/opt/SUNWappserver7/domains/...</code></p> <p>Look for the port settings in the <code><iiop-listener></code> and <code><jms-service></code> elements. You can either change these port numbers to other unused port numbers, or you can modify your firewall policy to allow connection attempts from clients on the local machine to these port numbers on the same machine.</p>

ID	Summary
5003245	Server listens on two ports after reconfiguring ports and restarting Solution After changing the port numbers, stop and then start the server using asadmin commands, asadmin stop-instance and asadmin start-instance, respectively.

Database Driver

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

ID	Summary
2082209/5022904	DB2 Server has connection growing after idle time-out with DB2 Type II driver Solution Set the <code>SteadyPoolSize</code> and <code>MaxPoolSize</code> to the same number, and in addition, set the Idle Connection timeout also to 0 (zero). This will disable the timing-out of idle connections and the user will have the full set of connections available.
4700531	On Solaris, an Oracle JDBC driver error occurs with JDK 1.4. <p>This affects the new JDBC driver for Oracle (R) when working with JDK1.4. The problem is caused by a combination of the Oracle 9.0.1 database and <code>ojdbc14.jar</code>. Applying the patch will fix the problem on Solaris 32-bit machine, running an Oracle 9.0.1.3 database.</p> Solution Obtain and apply the patch to your server from the Oracle Web site for Bug 2199718. Perform the following steps: <ol style="list-style-type: none"> 1. Go to the Oracle Web site. 2. Click the 'patches' button. 3. Type 2199718 in the patch number field. 4. Click the 32-bit Solaris OS patch.Go to <code>Metalink.oracle.com</code>. 5. Click patches. 6. Under patch number, enter 2199718. 7. Click the 32 bit Solaris OS patch.

ID	Summary
4991065	<p>Oracle JDBC drivers must be configured properly to be compliant with J2EE 1.3.</p> <p>Solution</p> <p>Use the following configuration for Type 2 and Type 4 drivers:</p> <ol style="list-style-type: none"> 1. Use the JDBC from 9.2.0.3 or later. 2. The Oracle database needs to have <code>compatible=9.0.0.0.0</code> or higher in its parameter (<code>init.ora</code>) file. 3. Use the <code>ojdbc14.jar</code> file. 4. Configure the Application Server to define the following JVM property: <pre>-Doracle.jdbc.J2EE13Compliant=true</pre> <p>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 Application Server is started in. For example, add them to the <code>asenv.conf</code> file and ensure they are exported.</p>

Logging

ID	Summary
5014017	<p>The Appclient logging services don't work properly</p> <p>Default value for file attribute will not work.</p> <p>Solution</p> <ol style="list-style-type: none"> 1. Create a logs directory. 2. Specify the complete path to the newly created logs directory in the <code>sun-acc.xml</code> file. <p>In case of logging to console, the log level is always 'INFO' irrespective of the log level setting (FINE, FINEST...etc)</p> <p>The Administration Guide to Clients states that logs will be present in the <code>acc_dir/logs/client.log</code>, however you must create the "logs" directory and then specify the full path to this dir in the <code>sun-acc.xml</code> to make it work.</p>

Web Container

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

ID	Summary
6183117	<p data-bbox="318 270 991 288">Incorrect http-headers when using servlet filters for pdf/ xls files.</p> <p data-bbox="318 310 1200 357">There is no default mime-type mapping in default-web.xml. Add the desired mime-types to default-web.xml.</p> <p data-bbox="318 380 405 397">Solution</p> <p data-bbox="318 420 1258 437">Add the following mime-type definition in the default-web.xml of the instance that will server xls:</p> <pre data-bbox="318 460 891 604"><mime-mapping> <extension>xls</extension> <mime-type>application/vnd.ms-excel</mime-type> </mime-mapping></pre> <p data-bbox="318 623 1229 640">Similarly, add the specific mime-type definitions for other file types to the default-web.xml file.</p>
6308777/6324326	<p data-bbox="318 666 843 683">Servlet container UTF-8 URI mapping vulnerability.</p> <p data-bbox="318 706 1300 723">ACL-based protection for JSPs can be bypassed by presenting characters in the URI in UTF-8 format.</p> <p data-bbox="318 746 405 763">Solution</p> <p data-bbox="318 786 876 803">Ensure to modify ACLs to not accept wildcards in the URI.</p>
5089201/5001994	<p data-bbox="318 829 972 847">getRequestURI() returns unencoded values when it should not.</p> <p data-bbox="318 869 1215 916">The fix for this issue will break clients of older NSAPI, such as Portal Server 6.3, which call <code>getRequestURI()</code> and expect the URI to be automatically decoded when the data is returned.</p> <p data-bbox="318 939 1265 986">Therefore, to maintain backward compatibility for older NSAPI clients, a new JVM option has been added to revert to the old NSAPI behavior and allow Portal Server to function correctly.</p> <p data-bbox="318 1008 405 1025">Solution</p> <p data-bbox="318 1048 1272 1095">Enable the JVM option, <code>-DJ2EEDecodeURI</code>, on computers running Portal Server to allow cookie-less mode (and all other functionality) on the <code>getRequestURI()</code> call.</p>
4951476	<p data-bbox="318 1121 1253 1138">javax.ejb.EJBException: org/dom4j/Element error is thrown with JWSDP 1.2(1.3) installed.</p> <p data-bbox="318 1161 405 1178">Solution</p> <p data-bbox="318 1201 1300 1248">Add dom4j-full.jar to server-classpath in server.xml file. It can be downloaded from http://dom4j.org and should precede appserv-jstl.jar entry in server-classpath.</p>
4997770	<p data-bbox="318 1274 1043 1291">HTTP 404 error message still indicating "Sun ONE Application Server"</p> <p data-bbox="318 1314 1058 1331">Read "Sun ONE Application Server" as Sun Java System Application Server.</p>

Message Service and Message-Driven Beans

This section describes the known issues in Java Message Service (JMS), Sun Java System Application Server Standard and Enterprise Edition, and message-driven beans issues and the associated solutions.

ID	Summary
6184426	<p>ConnectException errors on HP-UX11.11 during stress tests.</p> <p>Configuration of the HP-UX TCP-IP parameter at the OS level or at the IMQ level is required.</p> <p>Solution</p> <p>At the IMQ level, make the following changes:</p> <pre>imq.portmapper.backlog=1000 imq.authentication.client.response.timeout=360 imq.jms.tcp.backlog=3000 imq.jms.max_threads=5000</pre>
4683029	<p>The -javahome flag in all MQ Solaris scripts does not work if the value has a space.</p> <p>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> <pre>/work/java 1.4</pre> <p>This problem occurs at 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 Application Server. If the Java runtime that is configured for use by the 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 Application Server instance startup to fail.</p> <p>Solution</p> <p>Make sure that the Java runtime used by the 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 the associated solutions.

ID	Summary
6218460	<p>Transactions can fail due to a transaction timeout even when the JTS timeout is large enough.</p> <p>Solution</p> <p>Configure the Application Server's transaction service property, <code>xaresource-txn-timeout</code>, and set its value to match the transaction timeout (in seconds) configured for the transaction service.</p>

Recovery

There are some known problems with the recovery implementations of some of the JDBC drivers. For these known problems, Sun Java System 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 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 set 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"
```

Application Deployment

This section describes the known application deployment issues and associated solutions.

ID	Summary
6078271	<p>Deployment of an EAR fails on Windows due to file length issue.</p> <p>Windows running on non-NTFS file systems will face file name and path limitation of that file system.</p> <p>Solution</p> <p>Run Windows on an NTFS file system.</p>
6223279	<p>ejb-ref-name to the jndi-name mapping incorrect if the jndi-name is missing.</p> <p>When deploying ejb applications, the XML Deployment Descriptor (<code>sun-ejb-jar.xml</code>) should have a <i>jndi-name</i> entry for each EJB reference. For example:</p> <pre><ejb-ref> <ejb-ref-name>ejb/package_name.ejb_name</ejb-ref-name> <jndi-name>ejb/package_name.ejb_name</jndi-name> </ejb-ref></pre> <p>If the <code>jndi-name</code> entry is missing, it will deploy without error, but the application will not work correctly as JNDI lookup will fail to find an EJB.</p> <p>Solution</p> <p>Ensure that JNDI names are present in the deployment descriptors. To ensure that your application does not have this problem, select the <code>Run Verifier</code> check box before deploying as this will highlight problems with missing JNDI names.</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>

ID	Summary
4994366	<p>Deploy error with ejb-local-ref and ejb-link.</p> <p>Solution</p> <p>ejb-local-ref requires ejb-link. Therefore, when dealing with ejb-local-ref, you must specify an ejb-link value.</p>

Verifier

This section describes the known verifier issues and associated solutions.

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

Load Balancer

This section describes the known load balancer issues and associated solutions.

ID	Summary
6338687	<p>Load Balancer Plug-in cannot handle URL/URI greater than 8K.</p> <p>Ensure not to create a URL/URI greater than 8k if it is going to be forwarded by the load balancer plug-in to the Application Server.</p>

ID	Summary
6262746	<p data-bbox="239 244 1219 293">Load balancer plug-in on Apache web server, installed on Solaris 10 (SPARC and x86), is not a supported configuration.</p> <p data-bbox="239 314 325 335">Solution</p> <ul data-bbox="239 352 968 456" style="list-style-type: none"> • Use Apache on Solaris 8 or 9, and the Application Server on Solaris 10. <p data-bbox="239 395 268 416">Or,</p> <ul data-bbox="239 434 746 456" style="list-style-type: none"> • Use Sun Java System Web Server on Solaris10.
6155134	<p data-bbox="239 477 833 498">Manual setting of path is required for webserver to start.</p> <p data-bbox="239 519 1219 567">After installing load balancer plug-in on Windows for IIS or Apache, append the path of the Application Server to the Path environment variable.</p> <ul data-bbox="239 588 1176 677" style="list-style-type: none"> • Go to Start->Settings->Control Panel->System->Advanced->Environment Variables->System Variables->Path, and add: <code>appserver_install_dir\bin</code> • You must restart the machine.
4761151, 4825429, 4981545	<p data-bbox="239 697 1210 774">Intermediate form and basic authentication failures while sending intermittent SSL and non-SSL requests through load balancer plug-in. Displays a 502 Bad Gateway error message. The persistency of proxy-to-container connections is not maintained with the default settings.</p> <p data-bbox="239 795 1219 927">Loadbalancer loses persistent connections to the application server due to deployment/undeployment on the application server and/or due to keep alive timeout or due to stale connections in the load balancer's connection pool. When this happens, some of load balancer's requests will fail and the error page is displayed. This typically occurs in a development environment where frequent deployment/undeployment and other configuration changes are tried and tested.</p> <p data-bbox="239 947 325 968">Solution</p> <p data-bbox="239 986 708 1006">Set the keep alive timeout on the appserver to 0.</p> <p data-bbox="239 1027 682 1048">Using web-based Administration interface:</p> <ol data-bbox="239 1069 1082 1211" style="list-style-type: none"> 1. Launch the Administration console. 2. Select HTTP Server -> Tuning. 3. In the HTTP Persistent Connection Timeout field, enter 0 (last text box on the page) 4. Apply changes and restart the appserver. <p data-bbox="239 1232 599 1253">Using the Command-line Interface:</p> <ol data-bbox="239 1274 862 1378" style="list-style-type: none"> 1. Add the line: <code>KeepAliveTimeout 0</code> in <code>init.conf</code> of appserver 2. Launch the <code>asadmin reconfig</code> command. 3. Restart the appserver.

ID	Summary
4962735	<p data-bbox="318 244 1272 293">On Linux, Apache Web Server 1.3.27 does not start after installing load balancer plug-in and sec_db files.</p> <p data-bbox="318 314 405 335">Solution</p> <p data-bbox="318 355 1293 430">Include the following lines in <code>/src/MakeFile</code> after “End of automatically generated section,” and just before “<code>OBJS= \</code>”. Also, make sure the Application Server libraries are already installed in a particular location:</p> <pre data-bbox="318 451 1293 499">LIBS+= -licuuc -licuil8n -lnspr4 -lpthread -lxerces-c -lsupport -lnsprwrap -lns-httpd40 LD_FLAGS+= -L/space/SJSAS/installations/lib.</pre> <p data-bbox="318 519 1272 593">Where: <code>/space/SJSAS/installations</code> is the location of the application server installation. For more information, see Appendix “Compiling Apache Web Server” in <i>Sun Java System Application Server Administration Guide</i>.</p>
5018537	<p data-bbox="318 616 1305 640">Identity Server/Application Server Integration Services unavailable error shown during failover.</p> <p data-bbox="318 661 1279 736">Loadbalancer.xml has “/” as the context-root for a web-module. After a failover, since there is no context root, a “Default” string is assigned as the path of the update JROUTE cookie. This results in two JROUTE cookies on the browser side.</p> <ol data-bbox="318 756 1139 815" style="list-style-type: none"> 1. The old JROUTE cookie pointing to the failed instance with “/” as path. 2. The new JROUTE cookie pointing to the new instance with “/Default” as the path. <p data-bbox="318 836 1300 883">The browser would always use the old outdated cookie (1) and consequently it results in redirects and failovers, and sometimes the browser itself fails.</p> <p data-bbox="318 904 405 925">Solution</p> <p data-bbox="318 946 901 970">Have specific context root for all web modules. For example:</p> <pre data-bbox="365 991 1150 1098"><web-module context-root="appl" enabled="true" disable-timeout-in-minutes="60" error-url="appl-lberror.html" /> <web-module context-root="app2" enabled="true" disable-timeout-in-minutes="60" error-url="app2-lberror.html" /></pre> <p data-bbox="318 1119 1176 1144">After the failover, the JROUTE gets the path as “/appl” which is valid and works correctly.</p>
5007720	<p data-bbox="318 1166 1036 1190">Log message not proper for invalid value for error-url in web-module.</p> <p data-bbox="318 1211 1286 1258">When the <code>error-url</code> attribute in <code>web-module</code> tag of <code>loadbalancer.xml</code> is set, as follows, to an invalid value, such as:</p> <pre data-bbox="365 1279 965 1328"><web-module context-root="appl" enabled="true" disable-timeout-in-minutes="60" error-url="abc" /></pre> <p data-bbox="318 1348 715 1373">The log message displayed is as follows:</p> <pre data-bbox="365 1394 1272 1442">warning (11113): reports: lb.configurator: XML_VALIDATOR_WARNING: Invalid format for the error-url sun-http-lberror.</pre> <p data-bbox="318 1463 589 1487">However, the log should be:</p> <pre data-bbox="365 1508 1272 1557">warning (20015): reports: lb.configurator: XML_VALIDATOR_WARNING: Invalid format for the error-url abc</pre>

High Availability

This section describes the known high availability issues and associated solutions.

ID	Summary
6301842	<p>Sometimes on Windows, the management agent cannot deregister the service when running, ma -r, and fails with the error message, Could not identify program.</p> <p>Solution</p> <p>Start a Windows command prompt window and run <code>sc stop HADBMgmtAgent</code> and then run <code>sc delete HADBMgmtAgent</code>. If the command <code>ma -i -n servicename</code> was used to install and start the service, then use <code>servicename</code> when running the command <code>sc</code>.</p>
6293912	<p>The Management Agent should not use special-use interfaces.</p> <p>Solution</p> <p>When issuing <code>hadbm create</code> on hosts with multiple interfaces, always specify the IP-addresses explicitly, using DDN notation.</p>
6291562	<p>Reassembly failures on Windows.</p> <p>On the Windows platform, with certain configurations and load, there may be a large number of reassembly failures in the operating system. The problem has been seen with configurations of more than 20 nodes when running several table scans (<code>select *</code>) in parallel. The symptoms could be that transactions abort frequently, or repair and recovery may take a long time to complete, and there may be frequent timeouts in various parts of the system.</p> <p>Solution</p> <p>To fix the problem, the Windows registry variable <code>HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters</code> should be set to a value higher than the default value of 100. We recommend increasing it to 0x1000 (4096). For more information, see article 811003 from the Microsoft support pages: http://support.microsoft.com/default.aspx?scid=kb;en-us;811003.</p>
6275319	<p>Non-root users cannot manage HADB.</p> <p>Installing with Java Enterprise System (as root) does not permit non-root users to manage HADB.</p> <p>Solution</p> <p>Always login as root to manage HADB.</p>
6275103	<p>hadbm management agent should give a better error message when a session object has timed out and deleted at MA.</p> <p>Sometimes, a resource contention problem on the server may cause a management client to become disconnected. When reconnecting, a misleading error message, <code>hadbm:Error 22184: A password is required to connect to the management agent</code> may be returned.</p> <p>Solution</p> <p>Check if there is a resource problem on the server, take proper action (e.g., add more resources), and retry the operation.</p>

ID	Summary
6273681	<p data-bbox="318 244 939 265">Management agents in global and local zones may interfere.</p> <p data-bbox="318 282 1289 335">On Solaris 10, stopping a management agent by using the <code>ma-initd</code> script in a global zone stops the management agent in the local zone as well.</p> <p data-bbox="318 352 405 373">Solution</p> <p data-bbox="318 390 998 411">Do not install the management agent both in the global and local zone.</p>
6271063	<p data-bbox="318 437 743 458">Install/removal and symlink preservation.</p> <p data-bbox="318 475 1298 555">Regarding install/removal of HADB c package (Solaris: <code>SUNWhadb</code>, Linux: <code>sun-hadb-c</code>) version <m.n.u-p>, the symlink <code>/opt/SUNWhadb/<m></code> is never touched once it exists. Thus, it is possible that an orphaned symlink will exist.</p> <p data-bbox="318 572 405 593">Solution</p> <p data-bbox="318 611 925 631">Delete the symlink before install or after uninstall unless in use.</p>
6265419	<p data-bbox="318 657 1300 710">Downgrading from HADB Version 4.4.2.5 to HADB Version 4.4.1.7 causes management agent to fail with different error codes.</p> <p data-bbox="318 727 1280 779">When downgrading to a previous HADB version, the management agent may fail with different error codes.</p> <p data-bbox="318 796 405 817">Solution</p> <p data-bbox="318 835 1298 914">It is possible to downgrade the HADB database, however the management agent cannot be downgraded if there changes have been made in the repository objects. After a downgrade, you must use the management agent from the latest HADB version.</p>
6262824	<p data-bbox="318 940 1001 961">hadbm does not support passwords containing uppercase letters.</p> <p data-bbox="318 979 1218 999">Capital letters in passwords are converted to lowercase when the password is stored in hadb.</p> <p data-bbox="318 1017 405 1038">Solution</p> <p data-bbox="318 1055 818 1076">Do not use passwords containing uppercase letters.</p>

ID	Summary
6173886, 6253132	<p data-bbox="239 244 551 265">hadbm createdomain may fail.</p> <p data-bbox="239 284 1150 331">If running the management agent on a host with multiple network interfaces, the <code>createdomain</code> command may fail if not all network interfaces are on the same subnet:</p> <p data-bbox="239 354 1215 401"><code>hadbm:Error 22020: The management agents could not establish a domain, please check that the hosts can communicate with UDP multicast.</code></p> <p data-bbox="239 421 1189 468">The management agents will (if not configured otherwise) use the <i>first</i> interface for UDP multicasts (<i>first</i> as defined by the result from <code>java.net.NetworkInterface.getNetworkInterfaces()</code>).</p> <p data-bbox="239 489 325 510">Solution</p> <p data-bbox="239 531 1222 635">The best solution is to tell the management agent which subnet to use (using <code>ma.server.mainternal.interfaces</code> in the configuration file. For example, <code>ma.server.mainternal.interfaces=10.11.100.0</code>). Alternatively you can configure the router between the subnets to route multicast packets (the management agent uses multicast address 228.8.8.8).</p> <p data-bbox="239 656 1222 760">Before retrying with a new configuration of the management agents, you should clean up the management agent's repository. Stop all agents in the domain, and delete all files and directories in the repository directory (identified by <code>repository.dr.path</code> in the management agent configuration file). This must be done on all hosts before restarting the agents with a new configuration file.</p>
6249685	<p data-bbox="239 781 803 802">clu_trans_srv process cannot be interrupted on Linux.</p> <p data-bbox="239 822 1215 899">There is a bug in the 64 bit version of Red Hat Enterprise Linux 3.0 that makes the <code>clu_trans_srv</code> process end up in an uninterruptible mode when performing asynchronous I/O. This means that <code>kill -9</code> does not work and the operating system must be rebooted.</p> <p data-bbox="239 920 325 940">Solution</p> <p data-bbox="239 961 748 982">Use a 32 bit version of Red Hat Enterprise Linux 3.0.</p>

ID	Summary
6230792, 6230415	<p data-bbox="318 244 929 269">Starting, stopping or reconfiguring HADB may fail or hang.</p> <p data-bbox="318 282 1275 335">On AMD Opteron™ systems running Solaris 10, starting, stopping or reconfiguring HADB using the <code>hadbm</code> command may fail or hang with one of the following errors:</p> <pre data-bbox="318 354 1190 374">hadbm:Error 22009: The command issued had no progress in the last 300 seconds.</pre> <pre data-bbox="318 395 1262 444">HADB-E-21070: The operation did not complete within the time limit, but has not been cancelled and may complete at a later time.</pre> <p data-bbox="318 463 1290 539">This may happen if there are inconsistencies while reading/writing to a file (<code>nomandev</code>) which the <code>clu_noman_srv</code> process uses. This problem can be detected by looking for the following messages in the HADB history files:</p> <pre data-bbox="318 558 1290 661">n:3 NSUP INF 2005-02-11 18:00:33.844 p:731 Child process noman3 733 does not respond. n:3 NSUP INF 2005-02-11 18:00:33.844 p:731 Have not heard from it in 104.537454 sec n:3 NSUP INF 2005-02-11 18:00:33.844 p:731 Child process noman3 733 did not start.</pre> <p data-bbox="318 680 405 701">Solution</p> <p data-bbox="318 720 1008 744">To solve the problem, run the following command for the affected node:</p> <pre data-bbox="318 763 815 784">hadbm restartnode --level=clear <i>nodeno dbname</i></pre> <p data-bbox="318 803 1200 855">Note that all devices for the node will be reinitialized. You may have to stop the node before reinitializing it.</p>
None	<p data-bbox="318 874 629 895">HADB database creation fails.</p> <p data-bbox="318 914 1219 966">Creating a new database may fail with the following error, stating that too few shared memory segments are available:</p> <pre data-bbox="318 986 1262 1034">HADB-E-21054: System resource is unavailable : HADB-S-05512: Attaching shared memory segment with key "xxxxx" failed, OS status=24 OS error message: Too many open files.</pre> <p data-bbox="318 1053 405 1074">Solution</p> <p data-bbox="318 1093 1276 1170">Verify that shared memory is configured and the configuration is working. In particular, on Solaris 8, inspect the file <code>/etc/system</code>, and check that the value of the variable <code>shmsys:shminfo_shmseg</code> is at least six times the number of nodes per host.</p>
6232140	<p data-bbox="318 1189 1190 1213">The management agent terminates with the exception, "IPV6_MULTICAST_IF failed."</p> <p data-bbox="318 1232 1300 1308">The management agent may terminate with the exception, <code>IPV6_MULTICAST_IF failed</code>, when starting on a host running Solaris 8 with several NIC cards, and if there is a mixture of cards with IPv6 and IPv4 enabled. The root cause is described in bug 4418866/4418865.</p> <p data-bbox="318 1328 405 1348">Solution</p> <ol data-bbox="318 1367 1015 1472" style="list-style-type: none"> 1. Set the environment variable, <code>_JAVA_OPTIONS</code>, as described here: <pre data-bbox="318 1411 958 1432">\$> export _JAVA_OPTIONS="-Djava.net.preferIPv4Stack=true"</pre> 2. Alternatively, use Solaris 9.

ID	Summary
6171832/ 6172138	<p>Stale sessions are not cleaned up leading to degraded HADB performance, or the data device is getting full.</p> <p>Solution</p> <p>To remove stale sessions efficiently, modify the <code>sun-ejb-jar.xml</code> file to set the value of <code>cache-idle-timeout-in-seconds</code> to <i>less than the</i> <code>removal-timeout-in-seconds</code> value.</p> <p>If the <code>cache-idle-timeout-in-seconds</code> is equal to or greater than the <code>removal-timeout-in-seconds</code>, old sessions will not be cleaned-up in HADB, which is the expected behavior.</p> <p>If you continue to face issues with stale sessions even after setting these properties as recommended, contact product support for help.</p>
6171994	<p>Improper permissions in <code>security.policy</code> file causing startup hang.</p> <p>Description</p> <p><code>hadb-jdbc</code> has improper access permissions in the <code>security.policy</code> file.</p> <p>Solution</p> <p>If there is an intermittent hang during startup, add the following suggested permissions in the <code>security.policy</code> file:</p> <p>By default, the following is present:</p> <pre>permission java.net.SocketPermission "*", "connect";</pre> <p>Suggested permissions:</p> <pre>permission java.net.SocketPermission "*", "connect accept,listen,resolve";</pre>
5042351	<p>New tables created after new nodes are added will not spread on the added nodes.</p> <p>Description</p> <p>If a user creates a database instance, add nodes to it, then any new tables created afterwards will not be fragmented on the nodes added after database creation. Only the tables created before <code>addnodes</code> will be able to use the added nodes when <code>hadbm addnodes</code> refragment it.</p> <p>This is because create table uses the <code>sysnode</code> node group which is created at the boot time of the database (when <code>hadbm create</code> is executed).</p> <p>Solution</p> <p>Run <code>hadbm refragment</code> after new tables have been added, or create the new tables on <code>nodegroup, all_nodes</code>.</p>

ID	Summary
6158393	HADB problem with RedHat AS 3.0 in co-located mode under load. <p data-bbox="318 282 439 307">Description</p> <p data-bbox="318 326 1300 404">HADB runs on RedHat Linux AS 3.0 co-located with Application Server. Transactions may get aborted and affect the performance. This is caused by the excessive swapping performed by the operating system.</p> <p data-bbox="318 421 406 446">Solution</p> <p data-bbox="318 463 1243 513">This issue appears to have been resolved when HADB was tested against RedHat Linux AS 3.0 Update 4.</p>
6214601	Addnodes fails with table not found error since hadbm searches user tables in sysroot schema. <p data-bbox="318 572 439 597">Description</p> <p data-bbox="318 614 736 638">The hadbm refragment command fails with:</p> <p data-bbox="318 656 1205 734">hadbm:Error 22042: Database could not be refragmented. Please retry with hadbm refragment command to refragment the database.. Caused by: HADB-E-11701: *Table singlesignon not found*</p> <p data-bbox="318 751 406 775">Solution</p> <p data-bbox="318 793 1041 817">Refragment the Application Server tables manually with the help of clusql:</p> <pre data-bbox="344 835 1008 1182"> > clusql server:port list> system+dbpassword specified at database create> SQL: set autocommit on; SQL: set schema haschema; SQL: alter table sessionattribute nodegroup all_nodes; SQL: alter table singlesignon nodegroup all_nodes; SQL: alter table statefulsessionbean nodegroup all_nodes; SQL: alter table sessionheader nodegroup all_nodes; SQL: alter table blobsessions nodegroup all_nodes; SQL: quit; </pre>
6159633	configure-ha-cluster may hang. <p data-bbox="318 1244 439 1269">Description</p> <p data-bbox="318 1286 1296 1364">When the <code>asadmin configure-ha-cluster</code> command is used to create or configure a highly available cluster on more than one host, the command hangs. There are no exceptions thrown from the HADB Management Agent or the Application Server.</p> <p data-bbox="318 1381 406 1406">Solution</p> <p data-bbox="318 1423 1296 1501">HADB does not support heterogeneous paths across nodes in a database cluster. Make sure that the HADB server installation directory and configuration directory are the same across all participating hosts.</p> <p data-bbox="318 1519 1083 1543">Additionally, clear the repository directories before running the command again.</p>

ID	Summary
6197822	<p>hadbm set brings the database instance to a state from which it is difficult to recover.</p> <p>Description</p> <p>In this scenario, the <code>hadbm set</code> command fails when attempting to change some database configuration variable; for example, setting <code>DataBufferPoolSize</code> to a larger size fails due to insufficient shared memory on node-0. The <code>hadbm set</code> command then leaves the database with node-0 in stopped state and node-1 in running state. Resetting the pool size back to the original value with the help of <code>hadbm set</code> fails with the message:</p> <pre>22073: The operation requires restart of node 1. Its mirror node is currently not available. Use hadbm status --nodes to see the status of the nodes.</pre> <p>In this case, <code>hadbm startnode 0</code> also fails.</p> <p>Solution</p> <p>Stop the database, then restore the old values using <code>hadbm set</code> and restart the database.</p>
6200133	<p>Failure in configure-ha-cluster; creating an HADB instance fails.</p> <p>Description</p> <p>Attempts to create a HADB cluster fails with the message:</p> <pre>HADB-E-00208: The transaction was aborted.</pre> <p>The booting transaction populating the SQL dictionary tables gets aborted.</p> <p>Solution</p> <p>Run the <code>configure-ha-cluster</code> command again. If you run the <code>hadbm create</code> command and it fails with the previous message, rerun it.</p>
5091349	<p>Heterogeneous install paths are not supported.</p> <p>It's not possible to register the same software package with the same name at different locations on different hosts.</p> <p>Solution</p> <p>HADB does not support heterogeneous paths across nodes in a database cluster. Ensure that the HADB server installation directory and configuration directory are same across all participating hosts.</p>
5091280	<p>hadbm set does not check resource availability (disk and memory space)</p> <p>Scenario</p> <p>Increasing device or buffer sizes using <code>hadbm set</code>.</p> <p>Description</p> <p>The management system will check resource availability when creating databases or adding nodes, but it will not check if there are sufficient resources available when device or main-memory buffer sizes are changed.</p> <p>Solution</p> <p>Check that there is enough free disk/memory space on all hosts before increasing any of the <code>devicesize</code> or <code>buffersize</code> configuration attributes.</p>

ID	Summary
4855623	<p data-bbox="318 244 1096 265">When one of the nodes' host is down, hadbm stop command does not exit.</p> <p data-bbox="318 284 1300 388">The hadbm stop command may not be able to shutdown a database completely if HADB nodes do not receive shutdown messages due to network problems. The typical symptom is that hadbm takes more than 60 seconds to complete. In this situation, hadbm stop/delete will not work. You must specify the nodes that needs to be shutdown.</p> <p data-bbox="318 407 405 428">Solution</p> <ol data-bbox="318 447 1115 512" style="list-style-type: none"> 1. Use "hadbm status --nodes" to determine which nodes are still alive. 2. Run "hadbm stopnode -f <i>node_number</i>" for each of the partially running nodes.
4861337	<p data-bbox="318 534 1119 555">If an active data node fails while executing <code>hadm stopdb</code>, <code>hadm startdb</code> will fail.</p> <p data-bbox="318 574 1082 595"><code>hadbm status</code> should return <code>non-operational</code> if the database is unable to start.</p> <p data-bbox="318 614 405 635">Solution</p> <p data-bbox="318 654 544 675">To correct the problem:</p> <ol data-bbox="318 694 605 715" style="list-style-type: none"> 1. Run <code>hadbm clear --fast</code> <p data-bbox="318 734 1300 786">If this command reports failures of type, <code>address in use</code>, for each machine in the system, login and kill all processes starting with <code>clu_</code>.</p> <ol data-bbox="318 805 772 826" style="list-style-type: none"> 2. Rerun the command, <code>hadbm clear --fast</code>. <p data-bbox="318 845 872 866">This will restart the database, causing the loss of all data.</p> <ol data-bbox="318 885 622 906" style="list-style-type: none"> 3. Recreate the session-store. <p data-bbox="318 925 1300 946">For details on creating the session-store, see <i>Sun Java System Application Server Administration Guide</i>.</p>
4958827	<p data-bbox="318 968 782 989">Child process transaction does not respond.</p> <p data-bbox="318 1008 1300 1144">When a host machine accommodates more than one HADB node and all nodes use the same disk for placing their devices, it is observed that the disk I/O becomes the bottleneck. HADB process have been waiting for asynchronous I/O and therefore did not answer the node supervisor's heartbeat check. This causes the processes to be restarted by the node supervisor. Although this problem can occur on any operating system, it is observed on Red Hat Linux AS 2.1 and 3.</p> <p data-bbox="318 1163 405 1183">Solution</p> <p data-bbox="318 1203 1253 1255">Use separate disks to place the devices belonging to different HADB nodes residing on the same machine.</p>

ID	Summary
None	<p>HADB Configuration with Double Networks</p> <p>HADB, configured with double networks on two subnets, work properly on Solaris SPARC. However, due to problems in the operating system or network drivers on some hardware platforms, it is observed that Solaris x86 and Linux platforms do not handle double networks properly. This causes the following problems to HADB:</p> <ul style="list-style-type: none">• On Linux, some of the HADB processes are blocked on message sending. This causes HADB node restarts and network partitioning.• On Solaris x86, after a network failure, some problems may arise that prohibits switching to the other network interface. This does not happen all the time, so it is still better to have two networks than one. These problems are partially solved in Solaris 10.• Trunking is not supported.• HADB does not support double networks on Windows 2003 (bug id 5103186).

Server Administration

This section contains the following sections:

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

Command Line Interface (CLI)

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

ID	Summary
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>.

Administration Infrastructure

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

ID	Summary
4686003	<p>HTTP Quality of Service limits are not enforced.</p> <p>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>Solution</p> <p>To fully enable QOS features, you must manually add an <code>AuthTrans fn=qos-handler</code> 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
4740022	<p>SNMP: END OF MIB is returned when adding and starting a new instance server.</p> <p>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>Solution</p> <ol style="list-style-type: none"> 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. 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 Application Server installation (common for all domains/instances).
4865739	<p>Negative test for instance port in server.xml corrupts domains.bin</p> <p>If the port number and/or IP Address includes a letter character, no new instances can be created and the current instances become unmanageable.</p> <p>Solution</p> <ol style="list-style-type: none"> 1. Edit the <code>server.xml</code> file and the backup <code>server.xml</code> and correct the port number and/or IP Address. 2. Execute the <code>asadmin reconfig</code> command using the <code>keepmanualchanges=true</code> option. 3. Using the Administration Interface, stop the instance by selecting the instance name in the Administration tree. 4. Restart the administration server and application server instance.

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 administration graphical user interface issues, and the associated solutions.

ID	Summary
4725473	<p data-bbox="318 317 1265 340">External certificate nickname doesn't display on the Administration interface Nickname list.</p> <p data-bbox="318 361 1279 465">When you install an external certificate through the 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="318 484 405 506">Solution</p> <ol data-bbox="318 526 1300 670" style="list-style-type: none"> 1. Log in to the system where the Sun ONE Application Server software is installed as an Administrative User. 2. Link the http-listener to the certificate installed on the external cryptographic module. Execute the <code>asadmin</code> command. For more information on the <code>asadmin</code> command, see the <code>asadmin(1M)</code> man page. <pre data-bbox="318 690 853 956">/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="318 977 1300 1055">This command establishes the link between the certificate and the server instance; it does not install the certificate (which was done using the Administration interface). Even though the certificate is linked with http-listener, the http-listener will be listening in non-SSL mode.</p> <ol data-bbox="318 1074 1153 1097" style="list-style-type: none"> 3. Enable the http-listener to listen in SSL mode by using the following CLI command. <pre data-bbox="318 1116 1115 1274">/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="318 1293 1096 1315">This command switches the server instance listening state from non-SSL to SSL.</p> <p data-bbox="318 1334 1233 1357">After completing the preceding steps, the certificate is displayed in the Administration interface.</p> <ol data-bbox="318 1376 1129 1399" style="list-style-type: none"> 4. You can now use the Administration interface to edit the http-listener as needed.

ID	Summary
4760939	<p>SSL: A self-signed certificate generated by certutil is not displayed on the Certificate Nickname list.</p> <p>A self-signed certificate is generated by the certutil and Certificate Nickname is not displayed on the Administration interface.</p> <p>Solution</p> <p>To use a self-signed certificate, you must manually edit the <code>server.xml</code> file.</p>
4991824	<p>Restart times out after SSL is enabled from the Admin Console.</p> <p>Solution</p> <p>Stop and start the server when SSL is enabled instead of doing a instance restart.</p>
4988332	<p>“Apply Changes Required” icon appears even though no changes have been made.</p> <p>In the Admin Console, when an Application Server instance's properties or settings are viewed, the Apply Changes Required” icon appears even if no changes have been made to the settings.</p> <p>Solution</p> <p>This message appears only once and does not make any changes to the Application Server. Select “Apply Changes” when you get this message.</p>
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> <p>For patch levels 115924-03, 115925-03, 115926-03, 115927-03, upgrade the SUNWjss package with a later version.</p> <p>Remove the path to <code>jss3.jar</code> from the server's classpath as described here:</p> <ol style="list-style-type: none"> 1. Open <code>server.xml</code> for editing. 2. Remove <code>usr/share/lib/mps/secv1/jss3.jar</code> from the classpath. <p>This is the first entry in the classpath unless you have explicitly modified it.</p> <ol style="list-style-type: none"> 3. Save <code>server.xml</code> and run <code>asadmin reconfig</code>. 4. Before starting your server instance, you also need to rename <code>jss3.jar</code>.

Sample Applications

This section describes known sample application issues and associated solutions.

ID	Summary
5048279	<p data-bbox="318 270 1232 322">Steps 1&2 of the Precompilation Tasks section of JDBC Realm Authentication sample is incomplete.</p> <p data-bbox="318 340 405 361">Solution</p> <p data-bbox="318 378 701 399">The proper steps for 1 and 2 should be:</p> <ol style="list-style-type: none"> <li data-bbox="318 421 736 442">1. Start the PointBase database server. <p data-bbox="318 460 1236 480">Go to the <code>appserver_install_root/pointbase/server</code> directory and run the <code>StartServer.sh</code> script.</p> <ol style="list-style-type: none"> <li data-bbox="318 503 636 524">2. Start the PointBase Console. <ul style="list-style-type: none"> <li data-bbox="318 546 1268 598">• Go to the <code>appserver_install_root/pointbase/client_tools</code> directory and run the <code>PB_console.sh</code> script. <li data-bbox="318 612 1158 633">• The database URL is: <code>jdbc:pontbase:server://localhost/sun-appserv-samples</code> <li data-bbox="318 654 762 675">• The default admin username is: <code>security</code>. <li data-bbox="318 696 762 716">• The default admin password is: <code>security</code>. <ol style="list-style-type: none"> <li data-bbox="318 737 922 758">3. Verify that the <code>PUBLIC.user_tbl</code> exists and contains users. <ul style="list-style-type: none"> <li data-bbox="318 779 805 800">• Navigate to the Catalog -> Catalog menu item. <li data-bbox="318 821 1105 841">• Within the Database Catalog, navigate to the <code>PUBLIC, TABLES, USER_TBL</code> node. <li data-bbox="318 862 1285 914">• Right-click the <code>USER_TBL</code> node and click <code>SELECT * FROM "PUBLIC"."USER_TBL"</code> within the pop-up menu.
4739854	<p data-bbox="318 927 943 947">Instructions needed for deploying resources using asadmin.</p> <p data-bbox="318 968 1229 1020">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="318 1038 405 1058">Solution</p> <p data-bbox="318 1079 1268 1156">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="318 1177 1265 1253">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="318 1270 1300 1468">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:po intbase:server://localhost/sun-appserv-samples</pre>

ID	Summary
4993620	<p data-bbox="232 236 1243 270">afterCompletion() called with false when more than one XA connection is used.</p> <p data-bbox="232 279 1243 392">Using a modified version of <code>samples/transactions/ejb/cmt/bank</code> application - The BankBean ejb connects to two databases. one for checking a/c and one for saving. There are two connection pools created which are configured for <code>oracle.jdbc.xa.client.OracleXADataSource</code> <code>datasource</code> and global transactions have been turned on.</p> <p data-bbox="232 401 1243 487">Running the standalone client which transfers some balance and retrieves the checking as well as saving balances, three remote calls are made - <code>transferBalance()</code>, <code>getCheckingBalance()</code> and <code>getSavingsBalance()</code>.</p> <p data-bbox="232 496 1243 557">It is observed that <code>afterCompletion</code> for <code>getCheckingBalance()</code> invocation is called with <code>committed=false</code>, although all the database operations were successful.</p> <p data-bbox="232 565 1243 600">For example, the following is executed:</p> <pre data-bbox="232 609 1243 722">appclient -client /space/SIAS/installation/domains/domain1/server1/applications/j2ee-apps/transactions-ba nk_13/transact -name BankClient -textauth com.sun.jndi.cosnaming.CNCtxFactory iiop://localhost:3700</pre> <p data-bbox="232 730 1243 791">Result: <code>afterCompletion()</code> is called with false even though tx is successful for a stateful session bean that uses more than one XA connections and performs only read-only db operations.</p> <p data-bbox="232 800 1243 835">Solution</p> <p data-bbox="232 843 1243 878">The current JTS implementation does not support this.</p>

ID	Summary
5016748	<p data-bbox="318 244 1265 269">The description for running SFSB Failover sample application using java client is incorrect.</p> <p data-bbox="318 284 1229 335">The java command for running the SFSB Failover sample application in the sample application documentation is incorrect.</p> <p data-bbox="318 352 405 376">Solution</p> <p data-bbox="318 394 1076 418">The following is the correct description for running sfsbFailover with java client:</p> <p data-bbox="318 434 1148 458">Running sfsbFailover sample with local or remote RMI/IIOP-based client without ACC:</p> <p data-bbox="318 475 1255 552">The java client is executed without using the interface of Application Client Container. It can be executed on the local machine (ashost) or a remote machine. The client application runs from the command line, i.e.</p> <pre data-bbox="318 569 1198 803"> java -Djava.library.path=\$AS_INSTALL/lib:/usr/lib/mps -Dcom.sun.CORBA.connection.ORBSocketFactoryClass=com.sun.enterprise.iiop.EEIIOPSocketFactory -Dorg.omg.PortableInterceptor.ORBInitializerClass=com.sun.appserv.iiop.EEORBInitializer -Dorg.omg.CORBA.ORBClass=com.sun.enterprise.iiop.POAEBORB -Dorg.omg.CORBA.ORBSingletonClass=com.sun.corba.ee.internal.corba.ORBSingleton -Djavax.rmi.CORBA.UtilClass=com.sun.corba.ee.internal.POA.ShutdownUtilDelegate -classpath <CP> <ClientApp> java.naming.factory.initial=com.sun.appserv.naming.SLASCtxFactory com.sun.appserv.iiop.loadbalancingpolicy=ic-based com.sun.appserv.iiop.endpoints=host:port,host:port </pre> <p data-bbox="318 815 384 840">where:</p> <ul data-bbox="318 855 1229 906" style="list-style-type: none"> • CP includes five jar files for CLASSPATH which are sfsbFailover.jar, appserv-rt.jar, appserv-ext.jar and appserver-rt-ee.jar, appserv-admin.jar. <p data-bbox="318 923 1283 973">The file of sfsbFailoverClient.jar is copied to the current directory from the deployment directory: <i>install_dir</i>/domains/domain1/server1/applications/j2ee-apps/sfsbFailover_1</p> <p data-bbox="318 991 1129 1015">The other jars are copied to the current directory from AS installation: <i>install_dir</i>/lib</p> <p data-bbox="318 1032 1300 1194">If you intend to run the client application on a remote machine, you need to transfer the sfsbFailoverClient.jar and other three appserver jar files to the client machine. Although the sfsbFailoverClient.jar file is used in this example to run application client with or without an ACC, it contains more files than absolutely necessary for the situation in which an ACC is not used. The minimal files required to run the example on a remote machine without an ACC are the appserv-ext.jar file and the following files as extracted from the sfsbFailoverClient.jar file:</p> <pre data-bbox="318 1211 1193 1345"> samples/ejb/stateful/simple/ejb/Cart.class - Remote Interface samples/ejb/stateful/simple/ejb/CartHome.class - Home Interface samples/ejb/stateful/simple/ejb/_Cart_Stub.class - Remote Stub samples/ejb/stateful/simple/ejb/_CartHome_Stub.class - Home Stub samples/ejb/stateful/simple/client/CartClient.class - Client Application Main Class </pre> <p data-bbox="318 1362 1296 1439">The appserv-ext.jar file is required on the client machine because it contains the javax.ejb package that the client needs, and also contains the implementation and interface for J2EE APIs that the client may need.</p> <ul data-bbox="318 1456 882 1506" style="list-style-type: none"> • ClientApp refers to the client program. In this example: samples.ejb.stateful.simple.client.CartClient

ID	Summary
5016748 cont.	<ul style="list-style-type: none">URL refers to the comma separated list of application server running as part of one cluster with hostname (e.g. ashost) and with an ORB-port (e.g. 3700). For example, ashost:3700,ashost:3701,ashost:3702 <p>The following is a complete example for the command:</p> <pre>java -Djava.library.path=\$AS_INSTALLlib:/usr/lib/mps -Dcom.sun.CORBA.connection.ORBConnectionFactoryClass=com.sun.enterprise.iiop.EEIIOPSocketFactory -Dorg.omg.PortableInterceptor.ORBInitializerClass=com.sun.appserv.iiop.EEORBInitializer -Dorg.omg.CORBA.ORBClass=com.sun.enterprise.iiop.POAEBORB -Dorg.omg.CORBA.ORBSingletonClass=com.sun.corba.ee.internal.corba.ORBSingleton -Djavax.rmi.CORBA.UtilClass=com.sun.corba.ee.internal.POA.ShutdownUtilDelegate -classpath sfsbFailoverClient.jar:appserv-ext.jar:appserv-rt.jar:appserv-rt-ee.jar:appserv-admin.jar samples.ejb.stateful.simple.client.CartClient java.naming.factory.initial=com.sun.appserv.naming.SLASCtxFactory com.sun.appserv.iiop.loadbalancingpolicy=ic-based com.sun.appserv.iiop.endpoints=localhost:3700,localhost:3701</pre> <p>Include \$AS_INSTALL/lib and /usr/lib/mps in LD_LIBRARY_PATH before running the command.</p> <p>You will see interactive console, which helps you to also test the high availability of the SFSB, InitialContext, Home reference and remote reference. After creating the InitialContext, press Enter. The reference is failed over to another available server instance. You can test the failover behavior for home reference, remote reference as well in the same way.</p>
5016656	<p>Samples document points to incorrect path for PointBase startup scripts.</p> <p>The path of startserver.sh is incorrectly mentioned as <i>pointbase_install_dir/tools/server/startserver.sh</i>.</p> <p>Solution</p> <p>The correct path to the PointBase startup script is <i>pointbase_install_dir/client_tools/server/startserver.sh</i>.</p>
5016647	<p>Indent-amount issue with Coffee Break application in JWSDP 1.0_01.</p> <p>The following error is displayed while running the Coffee Break sample application:</p> <p>ERROR: output property 'indent-amount' not recognized</p> <p>Solution</p> <p>This is a known issue in JWSDP 1.0_01. To avoid this issue, use a JWSDP version later than 1.1.</p>

ORB/IIOP Listener

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

ID	Summary
4743419	<p data-bbox="318 270 1286 322">RMI-IIOP clients will not work for IPv6 addresses where DNS address lookups fail for the IPv6 address.</p> <p data-bbox="318 340 1262 392">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="318 409 405 430">Solution</p> <p data-bbox="318 447 1250 499">Domain Name Service (DNS) should be set up at the deployment site in order to look up an IPv6 address.</p>
5017470	<p data-bbox="318 522 1219 543">Default IIOP port numbers assigned by the Application Server are randomly generated.</p> <p data-bbox="318 560 1240 612">When a new ORB listener or IIOP endpoint is created, the IIOP Port value varies, depending on whether one is creating an ORB Listener or IIOP Endpoint.</p> <ol data-bbox="318 630 1300 847" style="list-style-type: none"> 1. Creating a new ORB Listener > The IIOP port value cannot be left blank, though the * that signifies a 'must-specify' entry is not present. The default value shown is 1072, although the listener port value for the default listener created during server installation is 3700. 2. Creating a new IIOP Endpoint > The default IIOP port value shown is 3600. If an endpoint is created with the port value left blank, an IIOP endpoint is created with IIOP port value null. 3. If an new server instance is created, the default ORB listener port value is an arbitrarily high value, usually > 30000. <p data-bbox="318 864 405 885">Solution</p> <p data-bbox="318 902 1300 980">IIOP port values should not exceed 32767. If the values configured are outside this range, a connection failure occurs during failover. When configuring the IIOP listener for the server, ensure that the port values are within this range.</p>

Documentation

This section describes the known documentation issues and associated solutions.

ID	Summary
6267772	<p data-bbox="318 1248 948 1269">Instructions for configuring Borland Optimizelt are incorrect.</p> <p data-bbox="318 1286 1293 1338">Sun Java System Application Server Developer's Guide contains a typo in instructions for configuring Borland Optimizelt Profiler.</p> <p data-bbox="318 1355 405 1376">Solution</p> <p data-bbox="318 1394 933 1414">Use the following parameters for JVM options in the Profiler tab:</p> <pre data-bbox="318 1432 833 1512">-DOPTITHOME=Optimizeit_dir -Xbootclasspath/p:/Optimizit_dir/lib/oibcp.jar -Xrunpri:startAudit=t</pre>

ID	Summary
5039674	<p data-bbox="239 244 825 265">Error in asadmin create-jdbc-connection-pool man page.</p> <p data-bbox="239 284 696 305">The current description of <code>--restype</code> is incorrect.</p> <p data-bbox="239 324 1222 404">The <code>--restype</code> must be specified to disambiguate when a Datasource class implements both interfaces. An error is produced when this option has a legal value and the indicated interface is not implemented by the datasource class. This option has no default value.</p> <p data-bbox="239 423 325 444">Solution</p> <p data-bbox="239 463 1222 567"><code>--restype</code> must be specified to disambiguate when a datasource class implements more than one of the JDBC interfaces <code>javax.sql.DataSource</code>, <code>javax.sql.ConnectionPoolDataSource</code> or <code>javax.sql.XADataSource</code>. An error is produced when this option has a legal value and the indicated interface is not implemented by the datasource class.</p>
5010038	<p data-bbox="239 586 1062 607">Incorrect information in Administration Console online help on security realms.</p> <p data-bbox="239 626 1208 678">In Application server Administration console, under Appserver instances>Server1>Security>Realms, the help file lists the different realms as: <code>file</code>, <code>ldap</code>, <code>certificate</code>, <code>solaris</code>.</p> <p data-bbox="239 697 1222 749">This is incorrect. The actual realms are: <code>file</code>, <code>ldap</code>, <code>certificate</code>, <code>agentRealm</code>. The Application Server installer sets the security realm to <code>agentRealm</code> by default.</p>
6190702	<p data-bbox="239 769 659 789">hadbm help gives outdated information.</p> <p data-bbox="239 808 325 829">Solution</p> <p data-bbox="239 848 1173 928">For the latest information, see Chapter, "Administering the High-Availability Database (Enterprise Edition)," in <i>Sun Java System Application Server Standard and Enterprise Edition 7 2004Q2 Update 3 Administration Guide</i> documentation.</p>
4970418	<p data-bbox="239 947 1096 968">In the <code>create-ssl</code> man page, a space is missing between <code>--certname</code> and <code>cert_name</code>.</p> <p data-bbox="239 987 325 1008">Solution</p> <p data-bbox="239 1027 799 1048">The correct syntax for the <code>--certname</code> option is as follows:</p> <p data-bbox="239 1067 462 1088"><code>--certname cert_name</code></p>
4993601	<p data-bbox="239 1107 1159 1128">Outdated help files from Sun ONE Application Server 7, Enterprise Edition are displayed.</p> <p data-bbox="239 1147 325 1168">Solution</p> <p data-bbox="239 1187 1173 1267">If you have previously installed a different version of the Sun Java System Application Server (for example, Sun ONE Application Server 7, Enterprise Edition), make sure that your <code>MANPATH</code> environment variable points to your current installation directory.</p>
5008199	<p data-bbox="239 1286 1076 1307">Documentation error in the example section of the <code>delete-jvm-options</code> manpage.</p> <p data-bbox="239 1326 594 1347">The example should read as follows:</p> <pre data-bbox="239 1366 1222 1480">asadmin delete-jvm-options --user admin --password adminadmin --host localhost --port 4848 --instance server1 -- "-Djava.security.policy=/var/opt/SUNWappserver7/domains/domain1/server1/config/server.p olicy"</pre>

ID	Summary
None	Installation Guide PDF file in product CD is corrupt.
	Solution
	Use the HTML version of the Installation Guide.

Redistributable Files

Sun Java System Application Server Version 7 2004Q2 Update 4 does not contain any files which you can redistribute.

How to Report Problems and Provide Feedback

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

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- 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

You might also find it useful to subscribe to the following interest group, where Sun Java System Application Server topics are discussed:

<http://forums.java.sun.com/forum.jspa?forumID=136>

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Additional Sun Resources

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

- Sun Java System Documentation
<http://docs.sun.com/db/prod/sjs.asse>
- Sun Java System Professional Services
<http://www.sun.com/service/sunjavasystem/sjsserviceessuite.html>
- Sun Java System Software Products and Service
<http://www.sun.com/software>
- Sun Java System Software Support Services
<http://www.sun.com/service/sunone/software>
- Sun Java System Support and Knowledge Base
<http://www.sun.com/service/support/software>
- Sun Support and Training Services
<http://training.sun.com>
- Sun Java System Consulting and Professional Services
<http://www.sun.com/service/sunps/sunone>
- Sun Java System Developer Information
<http://developers.sun.com>
- Sun Developer Support Services
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