

# **Oracle9*i* Application Server**

## **Release Notes**

**Release 1.0.2.2 for Sun SPARC Solaris**

**May 2001**

**Part No. A90217-01**

This document summarizes the differences between Oracle9*i* Application Server Release 1.0.2.2 components and their documented functionality.

Part No. A90217-01

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**Oracle9*i* Application Server Release Notes, Release 1.0.2.2 for Sun SPARC Solaris**

**Part No. A90217-01**

Oracle Corporation welcomes your comments and suggestions on the quality and usefulness of this document. Your input is an important part of the information used for revision.

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If you have problems with the software, please contact your local Oracle Support Services.



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# Summary of Changes and New Features

This document is accurate to the best of our knowledge at the time of publication. Information that is discovered subsequent to publication will be available through normal support channels.

You can access the latest information and additions to these Release Notes on the Oracle Technology Network at:

<http://technet.oracle.com/products/ias>

## 1.1 Purpose of this Document

This document notes differences between Oracle9*i* Application Server Release 1.0.2.2 for Sun SPARC Solaris components and their documented functionality.

## 1.2 Product Naming

Product name changes in this release are:

| Old Name                               | New Name                            |
|--|-------------------------------------|
| Oracle8 <i>i</i> JVM                   | Oracle Enterprise Java Engine (EJE) |
| Oracle Forms Service                   | Oracle9 <i>i</i> AS Forms Services  |
| Oracle LDAP Developer's Kit            | Oracle Internet Directory (Client)  |
| Oracle Database Client Developer's Kit | Oracle Database Developer Kit       |
| Oracle XML Developer's Kit             | Oracle XML Developer Kit            |
| Oracle Portal                          | Oracle9 <i>i</i> AS Portal          |
| Oracle Portal-to-Go                    | Oracle9 <i>i</i> AS Wireless        |

| Old Name                    | New Name                              |
|-----------------------------|---------------------------------------|
| Oracle Database Cache       | Oracle9 <i>i</i> AS Database Cache    |
| Oracle Web Cache            | Oracle9 <i>i</i> AS Web Cache         |
| Oracle Reports Service      | Oracle9 <i>i</i> AS Reports Services  |
| Oracle Discoverer           | Oracle9 <i>i</i> AS Discoverer        |
| Oracle Transparent Gateways | Oracle Gateways                       |
| Oracle eMail Server         | Oracle9 <i>i</i> AS Email             |
| Oracle Unified Messaging    | Oracle9 <i>i</i> AS Unified Messaging |
| Oracle Internet File System | Oracle9 <i>i</i> File System          |

Oracle9*i* Application Server internet applications and their sub-components are listed below:

Oracle HTTP Server powered by Apache

- Apache JServ, mod\_jserv
- Perl interpreter, mod\_perl
- mod\_plsql, mod\_ssl
- Dynamic Monitoring Service (DMS)
- FastCGI, mod\_mm

Oracle9*i* Application Server Containers for J2EE

- Oracle9*i* Application Server Servlet Container
- Oracle9*i* Application Server EJB Container
- Oracle9*i* Application Server JSP Container
- Oracle Business Components for Java
- Oracle9*i* Application Server Object Caching Services for Java

Oracle PL/SQL

- Oracle PL/SQL Server Pages (Oracle PSP)

Oracle9*i* Application Server Forms Services

Oracle9*i* Application Server Developer Kits

- Oracle Database Developer Kit
- Oracle XML Developer Kit

Oracle9*i* Application Server Portal

Oracle9*i* Application Server Wireless

Oracle9*i* Application Server Cache

- Oracle9*i* Application Server Web Cache
- Oracle9*i* Application Server Database Cache

Oracle9*i* Application Server Business Intelligence

- Oracle9*i* Application Server Reports Services
- Oracle9*i* Application Server Discoverer (includes Discoverer Viewer, Discoverer Plus)

Oracle Enterprise Manager

Oracle Advanced Security

- Oracle9*i* Application Server Single Sign-On

Oracle9*i* Application Server Integration

- Oracle Workflow
- Oracle9*i* Application Server InterConnect
- Oracle9*i* Application Server SOAP
- Oracle Gateways (licensed separately)
- Oracle9*i* Application Server Email
- Oracle9*i* Application Server Unified Messaging

Oracle Internet File System

## 1.3 Certification Information

You can access the most recent certification information at:

<http://metalink.oracle.com>

### 1.3.1 JDK/JRE Certification

Oracle has certified the use of both JDK/JRE 1.1.8 and JDK/JRE 1.2.x for building and deploying Java applications with mod\_jserv. For this release, all Java class libraries (e.g., Oracle Business Components for Java, Oracle XML Developer's Kit) are shipped compiled with JDK 1.1.8\_10. These compiled classes are certified to run under both supported versions of the Java JRE, and they must not be recompiled.

### 1.3.2 Oracle Enterprise Manager Certification

Oracle9iAS Release 1 (v1.0.2.2) includes Oracle Enterprise Manager 2.2, which is not certified against the Oracle9i database.

### 1.3.3 Oracle9iAS Wireless Data Server Support

Oracle9iAS Wireless only supports Oracle 8.1.6 and above.

## 1.4 New Features

This section describes new features in this release in each application area.

### 1.4.1 Internet Applications New Features

#### 1.4.1.1 Oracle9i Application Server Containers for J2EE

New in this release is Oracle9iAS Containers for J2EE, a pure Java runtime executing on JDK. It is lightweight (using less than 10 MB disk and 20 MB memory) and installs quickly (within a couple of minutes). It provides:

- Complete support for all J2EE 1.2 APIs, including Enterprise JavaBeans (EJB) 1.1, Servlet 2.2, Java Server Pages (JSP) 1.1, JTA 1.0.1, JNDI 1.2, JMS 1.0, JDBC 2.0, and JavaMail 1.1.2.
- A partial implementation of J2EE 1.3 APIs, including Servlet 2.3 and EJB 2.0.
- XML-based configuration
- Java deployment using standard J2EE EAR, WAR, or EJB JAR files
- Support for standard Java development and profiling tools
- Reliability and scalability through component clustering, load balancing and application state replication

This release of Oracle9iAS Containers for J2EE is more stable when using the JDK version 1.2.2\_07 or 1.3x. Oracle recommends using version 1.2.2\_07, the JDK shipped with Oracle9iAS.

Oracle9iAS Containers for J2EE is distributed in the file oc4j.zip. Unzip the file and follow the instructions in the README.

The following J2EE components and services are featured:

#### Java Servlets

Full support for Servlet 2.2 and significant parts of Servlet 2.3 (Public Draft), including:

- 100% compatible with the Tomcat servlet engine
- Full WAR-based deployment
- Automatic compilation and deployment
- Stateful failover and cluster deployment
- Support for servlet filters
- Support for servlet chaining

#### Java Server Pages

Full support for JSP 1.1, including:

- Simple, body, parameterized, and collaboration tags
- JSP caching tags
- Mail, search and other tags
- Full WAR file-based deployment

#### Enterprise JavaBeans (EJB)

Full support for EJB 1.1 and significant parts of EJB 2.0 (Public Draft), including:

- Session beans
- Entity beans with complete container-managed persistence (CMP) and bean-managed persistence (BMP)
- Message-driven bean Entity Beans
- Support for simple and advanced O-R mappings
- Dynamic EJB stub generation.

- Full EAR file-based deployment
- Simplified configuration customization
- Automatic deployment
- Hot deployment

#### Java Database Connectivity Services (JDBC)

- Oracle database access via JDBC
- Oracle JDBC-OCI driver
- Oracle thin JDBC driver
- Full JDBC 2.0 support
- Complete data type support
- JDBC 2.0 connection pooling

#### Advanced Features

- Oracle8.0,8i,9i Support
- Certified with Merant JDBC Drivers

#### Embedded SQL in Java (SQLJ) Implementation

The standard ANSI SQLJ implementation in Oracle9iAS Containers for J2EE allows placement of dynamic SQL directly in SQLJ statements, without need to revert to JDBC (in most situations). The SQLJ implementation can perform fetches from an untyped `ResultSetIterator`, and allows omission of iterator declarations.

In addition, JDBC programs and logic can be transformed 1:1 into SQLJ. You can generate Oracle JDBC code directly, without having to generate or customize SQLJ profiles. Corresponding Oracle JDBC enhancements are also supported.

#### Infrastructure Services

Oracle9iAS Container for J2EE contains the following infrastructure components:

- Java Naming and Directory Interface (JNDI)
- Java Transaction API (JTA)
- Java Messaging Service (JMS)
- Java Security Services
- RMI and HTTP tunneling services

- Web Server to JSP / Servlet Engine connectivity
- JSP/Servlet-to-EJB and EJB-to-EJB connectivity
- HTTP and HTTP(S) Tunneling

### Configuration, Deployment and Administration

Oracle9iAS Container for J2EE configuration is standardized upon XML and managed in server, generic, and application/component areas:

- Server Configuration Files: server.xml, web-site.xml, principals.xml, data-sources.xml, rmi.xml, jms.xml, load-balancer.xml, default-web-site.xml
- Generic J2EE Application and Component Configuration files: web.xml, ejb-jar.xml, application.xml, application-client.xml
- Oracle9iAS Container for J2EE-specific application and component configuration files: orion-web.xml, orion-ejb-jar.xml, orion-application.xml, orion-application-client.xml

The following tools are included to streamline deployment processes:

- A WAR file assembly tool assembles JSPs, servlets, tag libraries and static content into WAR files.
- An EJB assembly tool packages an EJB Home, remote interface, deployment Descriptor and the EJB itself into a standard JAR file.
- An EAR File assembly tool assembles WAR Files and EJB JARs into standard EAR files.
- A tag library assembly tool assembles JSP tag libraries into standard JAR files.

### System Administration

System administration can be done remotely or locally, with the command line tool. The management console shipped with Oracle9iAS Release 1 (v1.0.2.2) is a technology preview of features coming in the next release. This console is not supported for production use. Oracle9iAS Release 2 will include a new management console fully integrated with Oracle Enterprise Manager.

Logging services are provided to aid system administration and development. You can log web access, applications, servers, and RMI and JMS activity.

In this release, Oracle9iAS increases reliability and simplifies system administration with the these features and facilities:

### Load Balancing and Availability Features

- Load balancing at HTTP Server or Oracle9iAS J2EE Container levels
- Integration with third-party load balancing products
- No single point of failure
- Automatic connection re-routing
- Automatic death detection and restart
- Transparent application failover, and stateful and stateless cluster support

#### Clustering Facilities

- Static IP-based multicast
- Web presentation and web server failover
- Session state replication and cluster failover
- Transparent Application Failover (TAF) and Database State Management

### **1.4.1.2 Oracle HTTP Server *powered by Apache***

#### **1.4.1.2.1 Note About Apache JServ Processes**

The maximum number of Apache JServ processes supported in an Oracle9i Application Server site has been increased from the Apache distribution default maximum of 25 to an Oracle9i Application Server maximum 128. This value is not runtime configurable.

#### **1.4.1.2.2 Support for Third Party Components in Oracle9iAS**

**All Third Party Components** Portions of Oracle9i Application Server are distributed by Oracle under license from third parties ("Third Party Components"), including the Apache Web Server, version 1.3.19, licensed by the Apache Software Foundation. Oracle is distributing these Third Party Components as part of the Oracle9i Application Server product and, except as specified herein, will provide standard product support for the Third Party Components, as such support is further defined in the Oracle technical support policies. Please note that Oracle will only support the version of the Third Party Component shipped with Oracle9i Application Server and that other versions which may be freely available on the Internet will not be supported by Oracle.

Oracle may, as a courtesy, refer enhancement requests regarding the Third Party Components to the party who licensed the Component to Oracle; however, Oracle shall have no obligation to do so. In addition, no technical assistance requests will be filed on the non-Third Party Components (the "Oracle Components") unless the problem can be reproduced in an environment consisting of only the Oracle Components.

**Apache Modules** Oracle may distribute certain extensions to the Apache Web Server ("Apache Modules") to enhance the functionality provided by the Apache Web Server as part of Oracle9i Application Server. Apache Modules distributed by Oracle are referred to in these Release Notes as Oracle Apache Modules.

Oracle supports the following Oracle Apache Modules in this release:

|               |   |
|---------------|---|
| http_core     | Core Apache features.   |
| mod_access    | Host-based access control; provides access control based on client hostname or IP address.  |
| mod_actions   | Filetype/method-based script execution; provides for CGI scripts based on media type or request method.                           |
| mod_alias     | Aliases and redirects; provides for mapping different parts of the host filesystem in the document tree, and for URL redirection. |
| mod_auth      | User authentication using text files.   |
| mod_auth_anon | Anonymous user authentication, FTP-style.   |
| mod_autoindex | Automatic directory listings.   |
| mod_cgi       | Execution of CGI scripts; processes any file with mime type application/x-httdp-cgi.  |
| mod_define    | Configuration definitions.  |
| mod_digest    | MD5 authentication; provides for user authentication using MD5 Digest Authentication.   |
| mod_dir       | Basic directory handling; provides for "trailing slash" redirects and serving directory index files.                              |
| mod_env       | Passing of environments to CGI scripts; provides for passing environment variables to CGI/SSI scripts.                            |

|                      |  |
|----------------------|--|
| mod_expires          | Apply Expires: headers to resources; provides for the generation of Expires headers according to user-specified criteria.  |
| mod_fastcgi          | Routes requests to a pool of Fast CGI servers.   |
| mod_headers          | Add arbitrary HTTP headers to resources; headers can be merged, replaced or removed.   |
| mod_include          | Server-parsed documents; provides for server-parsed HTML documents.  |
| mod_info             | Server configuration information; provides a comprehensive overview of the server configuration including all installed modules and directives in the configuration files. |
| mod_jserv            | Communication with servlet engine.   |
| mod_log_config       | User-configurable logging replacement for mod_log_common; provides for logging requests made to the server, using the Common Log Format or a user-specified format.        |
| mod_log_referer      | Logging of document references; provides for logging the documents that reference documents on the server.   |
| mod_mime             | Determining document types using file extensions.  |
| mod_mime_magic       | Determining document types using "magic numbers"; can be used to determine the MIME type of a file by looking at a few bytes of its contents.                              |
| mod_negotiation      | Content negotiation.   |
| mod_ose              | Delegates URLs to stateful Java and PL/SQL servlets in Oracle Servlet Engine (OSE).  |
| mod_oprocmgr         | Provides process management and death detection to the servlet engine.   |
| mod_perl             | Support for writing Apache modules in Perl.  |
| mod_plsql            | PL/SQL support.  |
| libproxy (mod_proxy) | Caching proxy abilities; provides for an HTTP 1.0 caching proxy server.  |
| mod_rewrite          | Powerful URL-to-filename mapping using regular expressions; provides a rule-based rewriting engine to rewrite requested URLs on the fly.                                   |

---

|                 |  |
|-----------------|--|
| mod_setenvif    | Set environment variables based on client information; provides for the ability to set environment variables based upon attributes of the request.   |
| mod_so          | Support for loading modules at runtime; provides for loading of executable code and modules into the server at start-up or restart time.   |
| mod_speling     | Automatically correct minor typographical errors in URLs; attempts to correct misspellings of URLs that users enter, by ignoring capitalization and allowing up to one misspelling.              |
| mod_ssl         | SSL support.   |
| mod_status      | Server status display; allows a server administrator to find out how well the server is performing, presenting an HTML page that gives the current server statistics in an easily readable form. |
| mod_unique_id   | Generate unique request identifier for every request; provides a magic token for each request that is guaranteed to be unique across "all" requests under very specific conditions.              |
| mod_userdir     | User home directories; provides for user-specific directories.   |
| mod_usertrack   | User tracking using cookies.   |
| mod_vhost_alias | Support for dynamically configured mass virtual hosting.   |

Any other Oracle Apache Modules that are included in Oracle9i Application Server are provided "as is" without warranty or support of any kind. Apache Modules from any source other than Oracle, including the Apache Software Foundation or a customer, will not be supported by Oracle.

In addition, Oracle will only provide technical support for problems that can be reproduced with an Apache configuration consisting only of supported Oracle Apache Modules.

Oracle supports the use of the included Perl interpreter within the supported Apache configuration only.

#### 1.4.1.2.3 Building mod\_perl DBI/DBD-Oracle and Apache::DBI

To build, install, and test mod\_Perl DBI/DBD-Oracle and Apache::DBI for the Solaris platform, follow these steps:

1. Verify that the following software is available in your environment:
  - C compiler Sun SparcWorks version 5.0
  - GNU Make GNU Make version 3.77
  - Perl Perl version 5.005\_03
2. Verify that your PATH environment variable is set correctly to locate the required software.
3. Install Oracle9iAS from your product CD. This version has mod\_perl 1.21 built in. However, this install does not include the following modules:
  - Apache::DBI
  - Perl DBI
  - Perl DBD-Oracle
4. Set your PATH environment variable to pick up the correct Perl binaries. For example:

```
prompt> setenv ORACLE_HOME /private1/iAS10
prompt> setenv PATH ${ORACLE_HOME}/Apache/perl/bin:${PATH}
```
5. Set the environment variable PERL5LIB to the following:

```
prompt> setenv PERL5LIB ${ORACLE_HOME}/Apache/perl/lib/5.00503:${ORACLE_HOME}/Apache/perl/lib/site_perl/5.00
```
6. Download the following modules from  
[http://www.cpan.org/modules/by-module:](http://www.cpan.org/modules/by-module/)
  - DBI version 1.14
  - DBD::Oracle version 1.06
  - Apache::DBI version 0.87
7. Unpack the DBI package and follow the README instructions carefully to build, test, and install the module.
8. The DBD-Oracle module expects enough Oracle software available (such as \$ORACLE\_HOME/lib, \$ORACLE\_HOME/rdbms/lib, etc.) to build the driver successfully. Make sure that the following information is available in your environment:

- a. Set the ORACLE\_HOME environment variable to point to a valid Oracle9iAS install or an Oracle database install (for example, 8.1.6, 8.1.7, etc.).
  - b. Set the ORACLE\_SID environment variable to point to a valid Oracle SID.
  - c. Verify that the LD\_LIBRARY\_PATH environment variable points to the libclntsh.so. This can be done by setting \$ORACLE\_HOME/lib in the LD\_LIBRARY\_PATH environment variable.
  - d. If you are using National Language Support (NLS), make sure that you set the ORA\_NLS and ORA\_NLS33 environment variables to avoid ORA-01019 errors.
  - e. Optionally set the ORACLE\_USERID environment variable (the tests will use scott/tiger by default).
9. Unpack the DBD-Oracle package and follow the README instructions carefully to build, test, and install the module. The database must be up in order for the tests to pass properly.
10. Unpack the Apache::DBI package and follow the README instructions carefully to build and install the module. There are no tests available for this module yet. This step will install the Apache AuthDBI.pm and DBI.pm modules.
11. Edit \$ORACLE\_HOME/Apache/Apache/conf/httpd.conf as follows:
  - a. Uncomment the following line (remove the pound sign that is prepended):

```
PerlModule Apache::DBI
```

This allows the use of Apache::DBI's persistent database connections. For more information, read the Apache::DBI README instructions, specifically the section on Examples.

---

**Note:** httpd.conf is the main Apache server configuration file. Be sure to understand the instructions at the beginning of this file.

---

12. Now you are ready to test your persistent connection. As an example, perform the following to test the connection via your startup.pl:
  - a. Add this line to your httpd.conf file:

```
PerlRequire <absolute path to ApacheDBI's startup.pl script>
```

**b.** Modify the startup.pl connect call, such as:

```
Apache::DBI->connect_on_init('dbi:Oracle:', "scott/tiger", '');
```

**c.** Restart your Oracle HTTP Server:

```
prompt> $ORACLE_HOME/Apache/Apache/bin/apachectl start
```

**d.** Check Oracle HTTP Server logs to verify that connections were obtained correctly.

Tip: If Oracle HTTP Server logs report that the ORACLE\_HOME environment variable is not set, try adding this line to your httpd.conf file: PerlSetEnv ORACLE\_HOME "<absolute path to Oracle Home>"

Another sample Perl script to test the connection is:

```
##### Perl script start #####
use DBI;
print "Content-type: text/plain\n\n";
$dbh = DBI->connect("dbi:Oracle:", "scott/tiger", "") || die $DBI::errstr;
$stmt = $dbh->prepare("select * from emp order by empno") || die $DBI::errstr;
$rc = $stmt->execute() || die $DBI::errstr;
while (($empno, $name) = $stmt->fetchrow()) { print "$empno $name\n"; }
warn $DBI::errstr if $DBI::err;
die "fetch error: " . $DBI::errstr if $DBI::err;
$stmt->finish() || die "can't close cursor";
$dbh->disconnect() || die "can't log off Oracle";
##### Perl script End #####
```

## 1.4.2 Wireless New Features

### 1.4.2.1 Oracle9iAS Wireless

#### 1.4.2.1.1 Oracle9iAS Wireless 1.1.1.1

Oracle 9i Application Server Wireless 1.1.1.1 is a patch for Oracle 9i Application Server Wireless Edition 1.1 (which was shipped with Oracle 9i Application Server 1.0.2.1.0). Oracle 9i Application Server Wireless 1.1.1.1 is a super-patch that includes the Oracle 9i Application Server Wireless 1.1.1 patch recently posted on Oracle Technology Network.

The patch fixes the following bugs:

1684463, 1644304, 1618453, 1561062, 1761993, 1684020, 1640550, 1618443, 1542848, 1745915, 1646074, 1635012, 1605794, 1371832, 1743977, 1644311, 1620174, 1576480, 1371822, 1743922, 1757409

#### 1.4.2.1.2 Adapters

To address language-encoding issues, new optional input parameters have been added:

**INPUT\_ENCODING** has been added to the URL adapter enabling it to specify the remote XML page's charset.

**inputEncoding** has been added to StripAdapter enabling it to specify the remote HTML page's charset.

#### 1.4.2.1.3 Transformers

The HDML, TINY\_HTML and WML1.1 transformers have been modified. By default, these modified transformers will NOT be loaded into the Repository.

If you HAVE NOT made changes to the transformers, simply upload up11-111.xml.

If you have modified the shipped version of these transformers:

1. Merge the differences.
2. Upload the new transformers using the LoadXML utility upload.sh with up11-111.xml, shipped with the patch release. You can find the LoadXML utility at:

`$ORACLE_HOME/panama/sample/upload.sh`

See the *Oracle9i Application Server Wireless Configuration Guide* for more information on the LoadXML utility.

#### 1.4.2.1.4 New Search/Sort Feature Introduced into Service Designer

When you right click on the Master Services node or a folder node, you will find a Search/Sort command. You can search on service names (service names are case-insensitive); wild cards (such as '%') are accepted. Search results can be sorted by Name, LastUpdated Date, or Sequence Number. The new Search feature is more efficient when you are trying to load a large number of services.

The search results will be the new child nodes of the folder which will be automatically expanded. After you collapse the folder and re-expand it, all of its children will be loaded by default. In either case, if the result set is too large and surpasses the limit size specified in ptgsd.properties, you will receive a warning,

and only part of the result set will be loaded. In this case, if your expected service is not displayed, you must fine tune your search criteria and reaccomplish the search.

#### 1.4.2.1.5 System Logger

Previously, logging information for service requests and the session were logged in the repository as these events occurred. However, performance was degraded in high-load production environments.

In this patch, System Logger implementation has been improved. To avoid performance issues caused by queuing up the log information and logging to the database, changes were made to defer the database logging by first logging the data into files and having a separate process to read from the file and log to the database.

The Logger creates these directories:

- log—directory into which the file logger writes its file.
- process—directory from which DB Logger reads the records, based on their creation timestamps.
- archive—all processed files are moved to this directory for later use.
- status—processed files information and the records logged into the database are recorded in this directory (1 file per panama instance)

---

**Note:** Log file reading and database logging can potentially run in separate JVMs without impacting the performance of the panama servlet. The default configuration will start the database logger along with the servlet (this can be configured differently in the **System.properties** file).

---

#### Additional Configuration Needed

The following parameters must be set for the current release. Most of the new configurable parameters have default values. Administrators should reset these values to suit local requirements.

##### **SystemLog.loggerOutputDirectory=xxx**

(default same as the value set for property **log.directory**)

The Root path for the log, process and archive directories. These are created under this root directory. By default the System Logger uses the directory specified in the

property log.directory which is defaulted to /tmp. This parameter may be left blank.

**SystemLog.maxLogFileSize=xxx**

The maximum size of the file in the log directory. Once the log file reaches this file size, the logging process will close this file and move it to the process directory.

**SystemLog.logFileNamePrefix=xxx** (default ias\_)

The user-defined log file name prefix. The default prefix will be iaswe. A typical file name will be <SystemLog.logFileNamePrefix>\_<ptginstancename>\_<creationtimestamp>.log

**SystemLog.field.delimiter=xxx** (default #%==%#)

Delimiter for the logged namevalue pairs. SystemLogger uses its default.

**SystemLog.record.delimiter=xxx** (default ~#\$)

Delimiter for the logged records. SystemLogger uses its default.

**SystemLog.maxLogFileSize=xxx**

Maximum number of bytes per log file. This needs to be set to a suitably large number.

**SystemLog.start.dbLogger=[true/false]** (default is true)

Enable or Disable Database logging. If false, then the logged records will only remain in files. If true, the records are picked from files and logged onto the database (that is, the DB Logger thread is started). Values are True/False.

**SystemLog.logger.wakeupFrequency=xxx** (default is 1 min)

Number of minutes after which the DB Logger thread wakes up to check for any new log files in the process directory.

**SystemLog.logger.maxSize=xxx** (default 15)

Batch size for Database Logging.

**SystemLog.driver=xxx**

(default is taken as the value in the **db.driver** property, unless the user requires using a separate driver for the logger.)

Database JDBC driver <String> one of "THIN", "V7", "V8", "INTERNAL" and "CUSTOM"

**SystemLog.driver.class=xxx** (default is taken as Oracle's driver.)

Connect using a customized JDBC driver <class\_name>. Not implemented in version 1. Must be set if SystemLog.driver=CUSTOM

The following are some existing configuration parameters in the **oracle/panama/core/admin/System.properties** file which will be retained:

SystemLog.enableServiceLogging=[true/ false]

Specifies whether or not the Service Logging is enabled.

SystemLog.enableSessionLogging=[true/ false]

Specifies whether or not the Session Logging is enabled.

The status of the last record logged into the database is stored in the status log files. The status log files assist administrators in crash recovery by enabling them to inspect the last processed file and record, and to ensure that the Database Logger does not attempt to log duplicate records.

#### How to Start DB Logger

The default configuration will start the DBLogger thread along with the panama servlet launch. However, you can turn this off by setting the property **SystemLog.start.dbLogger** to false.

You can launch DB Logger as a separate process:

- java -classpath <needed panama classes> oracle.panama.core.admin.DbLogger

If all software were installed under d:\ the startup command will look like this:

```
java -classpath d:\panama\lib\panama.zip;d:\panama\lib\panama_
core.zip;D:\jsdk2.0\lib\jsdk.jar;D:\panama\lib\classes12.zip;d:\panama\lib\jndi.
jar;D:\panama\lib\xmlparserv2.jar oracle.panama.core.admin.DbLogger
```

#### Debugging

Sending the PAdebug=1 flag as part of a query string will not, by itself, enable the debugging capability. The login user for the current session must be either a Designer or an Administrator. See *Oracle9i Application Server Wireless Implementation Guide* for information on how to create a Designer or an Administrator.

#### Testing Wizard

You must have the Designer role in order to use the Test Wizard inside the Service Designer, otherwise only the device result will be displayed when a service is being tested.

#### **1.4.2.1.6 E-mail and Directory Applications**

FastForward Email and Directory applications enable you to provide your end users with access to their corporate email and directory lookup on any mobile device. Mobile email will drive productivity within your enterprise, allowing employees to stay in touch while away from the office. For more information, see *Oracle 9i Application Server Wireless Configuration Guide*.

#### 1.4.2.1.7 Multiple VM Setup for Oracle9iAS Wireless

To take advantage of the new group-based load-balancing features, you must make the following changes in the jserv.conf file:

1. ApJServManual must be set to auto (as opposed to on or off) for the new feature directives to take effect.
2. With the new load-balancing architecture, multiple instances can be grouped together. A group is a set of instances across which the traffic is load-balanced. The member instances of a group can exist on one or more machines. A group is defined by the following directive:

ApJServGroup groupname nprocs weight propfile

where:

**groupname** is the name of the group.

**nprocs** is the number of processes to start for this group on the local machine.

**weight** is the traffic distribution skew factor assigned to this group on this host.

**propfile** the path to the jserv.properties file

Example:

**ApJServGroup group1 2 1**

P: \ORACLE\10210PWE\Apache\Jserv/etc/jserv.properties

**ApJServGroup group1 1 1**

P: \ORACLE\10210PWE\Apache\Jserv/etc/jserv.properties

**ApJServGroup group2 1 1**

P: \ORACLE\10210PWE\Apache\Jserv/etc/jservSoap.properties

3. The following directive must be used in lieu of ApJServMount, to make allowance for the groups.

ApJServGroupMount /mountpoint balance://groupname/zone

where:

**mountpoint** is the name of the URI path to mount jserv-url on

**groupname** is one of the groups defined in the ApJServGroup directive

**zone** is the zone this servlet is associated with

Example:

```
ApJServGroupMount /ptg balance://group1/root
```

```
ApJServGroupMount /ptg balance://group1/root
```

```
ApJServGroupMount /ptg balance://group1/root
```

## 1.4.3 Business Intelligence New Features

### 1.4.3.1 Oracle9*i* Application Server Business Intelligence

#### 1.4.3.1.1 Oracle9*i* Application Server Reports Security Scripts No Longer Needed

The Oracle9*i* Application Server documentation states that you must run Reports security scripts to enable the security features. This is no longer true, since in Oracle9*i* Application Server Release 1.0.2.2, the scripts are pre-loaded into the Portal and have been removed from the install media.

## 1.5 Known Issues

This section describes known problems in this release.

Before using Oracle9*i* Application Server, read through each item in this section to gain an understanding of the restrictions and limitations in this release that may require additional steps. The items are categorized by solution area.

### 1.5.1 Installation Issues

#### 1.5.1.1 Selecting a Locale

To select a locale for Oracle9*i* Application Server installation:

1. On Solaris 2.6 with Common Desktop Environment (CDE), close all open windows.
2. Log out (right-click your desktop, select **Logout**, and click **OK**).
3. Select the desired locale from the Options menu. For example, a German locale can be chosen as follows:  
Options --> Language --> C to es\_BO --> de (German)

4. Log in (type user name and password).
5. Open a terminal emulator window.
6. Type the following command to verify the locale:

```
env | grep LANG
```

The output of this command must include the LANG environment variable, and it must have the value selected in Step 3.

If the LANG environment variable is not shown or is set to a different value, check .profile, .login, .cshrc or other files where the LANG environment variable is set or unset. After fixing the problem, repeat these steps, beginning with Step 1.

7. Install Oracle9*i* Application Server on Solaris.

The translated files for the selected locale are installed. In addition, English files are always installed.

#### **1.5.1.2 Manual Setting of Oracle9*i* Database Initialization Parameter Required**

Some Oracle9*i* Application Server components may not function correctly when interacting with the Oracle9*i* database if the o7\_dictionary\_accessibility parameter is set to FALSE. In the Oracle9*i* database init.ora file, add the following line:

```
o7_dictionary_accessibility=TRUE
```

#### **1.5.1.3 Oracle Universal Installer Shows Incorrect Installation Status**

The Oracle Universal Installer may display 'in progress' status after a component installation is in fact complete. This was observed during installation of the Database Cache and Portal configuration tools, and resolved after canceling the first attempt. On the second attempt, the completed installation was properly reflected in the status display.

#### **1.5.1.4 Install Failure**

Before installing Oracle9*i* Application Server on UNIX platforms, be sure that the environment variables PATH, ORACLE\_HOME, and LD\_LIBRARY\_PATH are not set in any command shell initialization files, such as .cshrc for csh, .bashrc for bash, or \$ENV for ksh.

Setting one of these variables in an initialization file could cause the installation of Oracle9*i* Application Server to fail. Setting one of these environment variables in a

login initialization file, such as .profile for sh, .login for csh, .kshrc for ksh, or .bash\_login for bash will not affect the installation of Oracle9i Application Server.

#### **1.5.1.5 Errors Opening redo Logs after Installation**

After installing the Oracle9i Application Server seed database, you may see the following errors in the user dump location:

```
ORA-00313: open failed for members of log group 1 of thread 1
ORA-00312: online log 1 thread 1: '<redo log file_name>'
ORA-27037: unable to obtain file status
```

These are not serious errors. The redo logs are created in a future step of the seed database creation.

#### **1.5.1.6 Standard Edition Character Set**

The starter database provided as part of the Oracle9i Application Server Standard Edition (SE) installation uses the US7ASCII character set. To change the database character set after installation, connect to the database using sqlplus and issue the statement:

```
SQL> alter database character set <character set>
```

For more information, see the *Oracle8i National Language Support Guide*.

#### **1.5.1.7 Root User Login for Installation**

When installing Oracle9i Application Server, do not use this command to log in as root user:

```
$ su
```

The su command does not set the environment properly, and because of this the installation may fail. Instead, log in as root in a separate session, or use this command:

```
$ su -root
```

#### **1.5.1.8 Configuration Guide for Response Files for Silent Install**

There are three Oracle Universal Installer response files, one for each installation option, included on the Oracle9iAS Release 1 (v1.0.2.2) CD-ROM. You will need to edit the response file to suit your installation option.

To use a response file, copy the response file from the Oracle9i Application Server CD-ROM to a drive mounted on your system. They are located on Disk#1 in the /stage/Response directory.

Minimal Edition : oracle.iappserver.iapptop.Minimal.rsp

Standard Edition : oracle.iappserver.iapptop.Standard.rsp

Enterprise Edition : oracle.iappserver.iapptop.Enterprise.rsp

Edit the response file you want to use with any text editor to include information specific to your system. Each file contains instructions for properly configuring the response file.

This document may be used as a reference for editing the response file. It contains relevant sections from the above response files with sample values to proceed with a silent install. These sections are described below:

- All Install Types (Minimal, SE & EE)
- Minimal & SE Only
- SE Install Type Only
- EE Install Type Only
- Portal Config. Asst. Only
- Other Config tools
- root.sh execution

Total changes needed:

EE installation: 12 parameters plus 7 portal configuration assistant-specific entries

SE installation: 13 parameters plus 7 portal config assistant-specific specific entries

Minimal: 10 parameters plus 7 portal config assistant-specific entries

---

**Notes:** The parameter UNIX\_GROUP\_NAME is "Unix group to be set for the inventory directory." You do not have to enter anything for this value if you specify the inventory location with the installer command line to a local directory.

The parameter FROM\_LOCATION\_CD\_LABEL should only be used in multi-CD installations. Its value is "Oracle9i Application Server 1.0.2.2.0"

---

## All Install Types (Minimal, SE &amp; EE) - Total : 9

[SESSION]

```
#Parameter: UNIX_GROUP_NAME
#Type: String
#Description: Unix group to be set for the inventory directory. Valid only in
Unix platforms.
#Example : UNIX_GROUP_NAME = "install"
UNIX_GROUP_NAME=<Value Unspecified>

#Parameter: FROM_LOCATION
#Type: String
#Description: Complete path of the products.jar.
#Example : FROM_LOCATION =
"/net/tools-nfs/inst_ias/solaris/ias10220/production/Disk1/stage/products.jar"
FROM_LOCATION="/net/tools-nfs/inst_
ias/solaris/ias10220/production/Disk1/stage/products.jar"

#Parameter: FROM_LOCATION_CD_LABEL
#Type: String
#Description: This variable should only be used in multi-CD installations. It
includes the label of
the Compact Disk where the file "products.jar" exists. The label can be found in
the file
"disk.label" in the same directory as products.jar.
#Example : FROM_LOCATION_CD_LABEL = "CD Label"
FROM_LOCATION_CD_LABEL=<Value Unspecified>

#Parameter: ORACLE_HOME
#Type: String
#Description: Complete Location of the Oracle Home.
#Example : ORACLE_HOME = "C:\OHOME1"
ORACLE_HOME="/private2/oracle/iasse2"

[oracle.webdb.apache_3.0.9.8.0]

#Parameter: user_input2
#Type: StringList
#Description: This variable holds the input from dialog2.
user_input2={"portal30", "portal30", "t816.world"})

#Parameter: user_input1
#Type: StringList
#Description: This variable takes the input from the first dialog.
```

```
user_input1={"portal30_sso", "portal30_sso", "t816.world"}
```

```
[portaltogo.server_1.1.1.0.0]
```

```
#Parameter: SYSTEM_PASSWORD
```

```
#Type: String
```

```
#Description: This will hold the panama SYSTEM user password
```

```
SYSTEM_PASSWORD="manager"
```

```
#Parameter: SRV_USER
```

```
#Type: StringList
```

```
#Description: This will hold the Portal-to-Go User and Password
```

```
SRV_USER={"scott", "tiger"}
```

```
#Parameter: SRV_HOST
```

```
#Type: StringList
```

```
#Description: This will hold the Portal-to-Go host variables
```

```
SRV_HOST={"london.us.oracle.com", "2021", "1816"}
```

Minimal & SE Install Types Only - Total : 1

```
[oracle.iappserver.iapptop_1.0.2.2.0]
```

```
#Parameter: startupProcesses
```

```
#Type: StringList
```

```
#Description: StringList of processes to configure and start automatically in
```

```
iAS Installation. This
```

```
variable is used only in Enterprise Edition installs (in other install types,
```

```
all processes are
```

```
automatically started). Possible values that can be included in the StringList
```

```
are the strings
```

```
 "Oracle HTTP Server in Non-SSL mode" , "Oracle9iAS Portal". If the StringList
```

```
is empty, no
```

```
processes are started. For example, the
```

```
#StringList {"Oracle HTTP Server in Non-SSL mode", "Oracle9iAS Portal"} would
```

```
configure
```

```
and start up those products.
```

```
startupProcesses={"Oracle HTTP Server in Non-SSL mode" , "Oracle9iAS Portal"}
```

SE Install Type Only - Total : 3

```
[oracle.assistants.dbca_8.1.7.0.0]
```

```
#Parameter: s_globalDBName
```

```
#Type: String
#Description: Global Database Name
s_globalDBName="m10ee2.world"

#Parameter: s_mountPoint
#Type: String
#Description: Database file location: directory for datafiles, control files,
redo logs.
s_mountPoint="/private2/oracle/iasee2/dbs"

#Parameter: s_dbSid
#Type: String
#Description: Value that $ORACLE_SID will be set to.
s_dbSid="m10ee2"
```

### EE Install Type Only - Total :3

```
[oracle.iappserver.iapptop_1.0.2.2.0]

#Parameter: startupProcesses
#Type: StringList
#Description: StringList of processes to configure and start automatically in
iAS Installation. This
variable is used only in Enterprise Edition installs (in other install types,
all processes are
automatically started). Possible values that can be included in the StringList
are the strings
    "Oracle9iAS Database Cache" , "Oracle9iAS Forms and Reports Services" , "Oracle
HTTP
Server in Non-SSL mode" , "Oracle9iAS Web Cache", "Oracle9iAS Portal",
"Oracle9iAS
Discoverer", "Oracle Management Server". If the StringList is empty, no
processes are started.
For example, the
#StringList {"Oracle9iAS Database Cache" , "Oracle9iAS Forms and Reports
Services" ,
"Oracle HTTP Server in Non-SSL mode" , "Oracle9iAS Web Cache", "Oracle9iAS
Portal",
"Oracle9iAS Discoverer", "Oracle Management Server" }

[oracle.icache.icacheca_1.0.2.2.0]

#Parameter: sl_dbaReturn
#Type: StringList
```

```
#Description: Name and Password of SYSDBA user on origin DB.
sl_dbaReturn={"sys", "change_on_install"}

#Parameter: sl_connectStringReturn
#Type: StringList
#Description: Fields are: Name of origin DB machine, Port number of listener on
origin (often
1521), Service name of origin DB.
sl_connectStringReturn={"london.us.oracle.com", "2021", "l816.world"}
```

For Portal Config Asst. Only (With All Install Types) - Total : 7

---

**Note:** OPCA takes default values for 4 tablespace name parameters, if not specified with the response file. Following are their names and default values. If the defaults are acceptable, you need not specify them with your response files.

```
temporary_tablespace="TEMP"
logging_tablespace="USERS"
document_tablespace="USERS"
default_tablespace="USERS"
```

---

[oracle.webdb\_3.0.9.8.0]

```
#Parameter: silent
#Type: Boolean
#Description: This variable is true if silent mode is on. It is passed to the
wwv component.
silent=true
```

[oracle.webdb.apache\_3.0.9.8.0]

```
#Parameter: opca_tnsconnect
#Type: String
#Description: tns connect string which is required by Oracle Portal Config
Assistant. This should
be in <machine name>:<port>:<sid> format.
opca_tnsconnect="london.us.oracle.com:2021:1816"
```

[oracle.webdb.wwv\_3.0.8.9.8]

```
#Parameter: sys_password
#Type: String
#Description: System Password for Portal's OPCA
sys_password="change_on_install"

#Parameter: temporary_tablespace
#Type: String
#Description: Temporary Tablespace for Portal's OPCA
temporary_tablespace="TEMP"

#Parameter: logging_tablespace
#Type: String
#Description: Logging tablespace for Portal's OPCA
logging_tablespace="USERS"

#Parameter: document_tablespace
#Type: String
#Description: Document Tablespace for Portal's OPCA
document_tablespace="USERS"

#Parameter: default_tablespace
#Type: String
#Description: Default Tablespace for Portal's OPCA
default_tablespace="USERS"
```

### Other Configuration tools

#### DBCA & NetCA

These tools are run in typical mode while running 9iAS silently, so no response files are required.

#### Oracle9iAS Database Cache Configuration Assistant

This tool's user input is specified with EE response file - 2 parameters sl\_dbaReturn & sl\_connectStringReturn, as mentioned above with component  
[oracle.icache.icachea\_1.0.2.2.0]

#### Oracle Internet File System Configuration Tool

Use the file template IfsConfig.properties provided with the shiphome. This is a post-installation task. This configuration tool is not run with 9iAS installation.

#### Oracle Management Server

Silent mode is NOT supported with Oracle9iAS 1.0.2 release. Scheduled for Oracle9iAS 2.0

root.sh Execution

You may set the parameter show\_rootsh\_confirmation=false and run the root.sh after the installation. You must make sure that /var/opt/oracle/oratab be writable by the owner of the installer process so that the Database Configuration Assistant (DBCA) and iCache Configuration Assistant (icacheca) can update the oratab file. Otherwise, DBCA and icacheca will fail during the configuration tool launch phase.

Enterprise Edition Response File Sections and Parameters

[SESSION]

```
#Parameter: UNIX_GROUP_NAME
#Type: String
#Description: Unix group to be set for the inventory directory. Valid only in Unix platforms.
#Example : UNIX_GROUP_NAME = "install"
UNIX_GROUP_NAME=<Value Unspecified>

#Parameter: FROM_LOCATION
#Type: String
#Description: Complete path of the products.jar.
#Example : FROM_LOCATION = ".../stage/products.jar"
FROM_LOCATION="/private1/balbert/dve/production/Disk1/stage/products.jar"

#Parameter: FROM_LOCATION_CD_LABEL
#Type: String
#Description: This variable should only be used in multi-CD installations. It includes the label of the Compact Disk where the file "products.jar" exists. The label can be found in the file "disk.label" in the same directory as products.jar.
#Example : FROM_LOCATION_CD_LABEL = "CD Label"
FROM_LOCATION_CD_LABEL="9iAppServer"

#Parameter: ORACLE_HOME
#Type: String
#Description: Complete Location of the Oracle Home.
#Example : ORACLE_HOME = "C:\OHOME1"
ORACLE_HOME="/private1/oracle/iaseel"

#Parameter: TOPLEVEL_COMPONENT
```

```
#Type: StringList
#Description: The Toplevel component that has to be installed in the current
session.
#The following choices are available. The value should contain only one of these
choices.
#The choices are of the form Internal Name, Version : External name. Please use
the internal
name and version while specifying the value.
# oracle.iappserver.iapptop, 1.0.2.0.1 : Oracle9i Application Server 1.0.2.0.1
#Example : TOLEVEL_COMPONENT = {"oracle.iappserver.iapptop","1.0.2.0.0"}
TOLEVEL_COMPONENT={"oracle.iappserver.iapptop","1.0.2.0.1"}

[oracle.iappserver.iapptop_1.0.2.0.1]

#Parameter: startupProcesses
#Type: StringList
#Description: StringList of processes to configure and start automatically in
iAS Installation. This
variable is used only in Enterprise Edition installs (in other install types,
all processes are
automatically started). Possible values that can be included in the StringList
are the strings:
"Oracle Database Cache" , "Forms and Reports Server" , "Oracle HTTP Server (on
port 7777)" ,
"Oracle Web Cache", "Oracle Discoverer 3i Viewer", "Oracle Portal", "Oracle
Management
Server". If the StringList is empty, no processes are started. For example, the
#StringList {"Oracle Database Cache","Forms and Reports Server"} would configure
and start
up those products.
#Possible Values are { "Oracle Database Cache" , "Forms and Reports Server" ,
"Oracle HTTP
Server (on port 7777)" , "Oracle Web Cache" , "Oracle Discoverer 3i Viewer" ,
"Oracle Portal",
"Oracle Management Server" }
#But Following 4 config tools doesn't support silent modes:
#1. "Oracle Web Cache" , 2. "Oracle Portal", 3. "Oracle Database Cache" , 4.
"Oracle
Management Server"

startupProcesses={"Forms and Reports Server" , "Oracle HTTP Server (on port
7777)" , "Oracle
Discoverer 3i Viewer" }

[oracle.webdb.apache_1.3.12.0.0a]
```

```
#Parameter: user_input2
#Type: StringList
#Description: This variable holds the input from dialog2.
user_input2={"portal30", "portal30", "t816.world"}
```

```
#Parameter: user_input1
#Type: StringList
#Description: This variable takes the input from the first dialog.
user_input1={"portal30_sso", "portal30_sso", "t816.world"}
```

```
[portaltogo.server_1.0.2.2.0]
```

```
#Parameter: SYSTEM_PASSWORD
#Type: String
#Description: This will hold the panama SYSTEM user password
SYSTEM_PASSWORD="manager"
```

```
#Parameter: SRV_USER
#Type: StringList
#Description: This will hold the Portal-to-Go User and Password
SRV_USER={"scott", "tiger"}
```

```
#Parameter: SRV_HOST
#Type: StringList
#Description: This will hold the Portal-to-Go host variables
SRV_HOST={"toronto.us.oracle.com", "2021", "t816"}
```

```
[oracle.icache.icacheca_1.0.2.0.0]
```

```
#Parameter: sl_dbaReturn
#Type: StringList
#Description: Name and Password of SYSDBA user on origin DB.
sl_dbaReturn={"sys", "change_on_install"}
```

```
#Parameter: sl_connectStringReturn
#Type: StringList
#Description: Fields are: Name of origin DB machine, Port number of listener on
origin (often
1521), Service name of origin DB.
sl_connectStringReturn={"toronto.us.oracle.com", "2021", "t816.world"}
```

### 1.5.1.9 OracleJSP Error

In HTTP Server and Standard Edition installations, the following OracleJSP error occurs when accessing Accessories from Browse Categories:

Error:

```
Request URI:/onlineorders_html/srch_results.jsp
```

Exception:

```
oracle.jsp.parse.JspParseException: Line # 7, Error: Unable to find
class for bean: parms defined by tag with class:
jsclient.processParms
```

To resolve the error, rename the JspClient directory to jsclient (all lower case). The directory is located in

```
$ORACLE_HOME/Apache/Apache/htdocs/onlineorders_html/
```

### 1.5.1.10 Oracle9iAS Database Cache Installation Errors

If the listener for the origin database is not properly configured, the following errors may occur when you attempt to install Oracle9iAS Database Cache:

Adding users to the cache failed.

Reason: WTE-03501 Error updating list of users: Export failed on origin database OCI error - ORA-28575: unable to open RPC connection to external procedure agent

Refer to the *Oracle9i Application Server Installation Guide* for detailed instructions to configure the listener for the origin database.

### 1.5.1.11 Oracle9iAS Database Cache Configuration

When you install Oracle9i Application Server Enterprise Edition, you can choose whether to configure Oracle9iAS Database Cache during the installation or at a later time. If you choose to configure Oracle9iAS Database Cache during the installation, the installation procedure uses default values for the following Oracle9iAS Database Cache attributes:

- The Oracle9iAS Database Cache host (by default, the host name qualified by the domain name).
- The Oracle9iAS Database Cache name (by default <cache\_nodename-cache>).
- The port number for the listener for Oracle9iAS Database Cache (by default, 51719).

- The memory allocated to Oracle9iAS Database Cache (by default, 25 MB).
- The disk space allocated to Oracle9iAS Database Cache (by default, 32 MB).
- The location of the file that holds the disk space (by default, \$ORACLE\_HOME/dbs directory).

If you want to specify values other than the default values, you can choose not to configure Oracle9iAS Database Cache during the installation. Then, after the installation completes successfully, invoke the Oracle9iAS Database Cache Configuration Assistant using the following command:

```
prompt> $ORACLE_HOME/bin/wtacca -create -custom
```

For more details, refer to the Configuration Assistant online help.

### **1.5.1.12 Preserving Changes to Oracle HTTP Server Configuration on Re-installation in Same Oracle Home**

Be sure to save copies of httpd.conf, jserv.conf, zone.properties, and any Oracle HTTP Server configuration files that you have changed. When you re-install Oracle9iAS into the same Oracle home, existing configuration files are overwritten with the newly installed files.

### **1.5.1.13 Apache Configuration Error Upon Installation**

When installing Oracle9i Application Server Enterprise Edition, and you have installed Apache previously in the same ORACLE\_HOME, Apache configuration fails with the following error:

```
Syntax Error on line 14 of
<ORACLE_HOME>/Apache/Apache/conf/mod_ose.conf
Aurora Service - directive already effect for this server
<ORACLE_HOME>/Apache/Apache/bin/httdsctl start: httpd could not be
started
```

To work around this error:

1. Remove the double entry of mod\_ose.conf in the file \$ORACLE\_HOME/Apache/Apache/conf/oracle\_apache.conf.
2. Restart your Oracle HTTP Server:

```
prompt>$ORACLE_HOME/Apache/Apache/bin/apachectl start
```

### 1.5.1.14 Automatic Class Reloading of JSPs Error

The Oracle9i Application Server installation adds the following extra entry to the \$ORACLE\_HOME/Apache/Jserv/etc/jserv.properties file:

```
wrapper.classpath=$ORACLE_HOME/Apache/Apache/htdocs/_pages
```

After installation, you need to delete this line and restart Oracle HTTP Server. Otherwise, automatic class reloading of JavaServer Pages (JSPs) will not work correctly.

### 1.5.1.15 Configuration Assistant Failure with Standard Edition Default Large Pool Size

During Oracle9i Application Server Standard Edition install, if you choose to install the Oracle9iAS Portal database objects into the newly created 8.1.7 Standard Edition database, the install fails because the default large\_pool\_size is not big enough. The workaround is to increase this size before running the Oracle9iAS Portal Configuration Assistant, as follows:

1. Shut down the database.
2. Double the size of the large\_pool\_size parameter in the init.ora file.
3. Restart the database.
4. Run the Oracle9iAS Portal Configuration Assistant.

If you do not perform these steps during an install, you can fix the problem as follows:

1. Drop the old Oracle9iAS Portal user.
2. Shut down the database.
3. Double the size of the large\_pool\_size parameter in the init.ora file.
4. Restart the database.
5. Run the Oracle9iAS Portal Configuration assistant from the ORACLE\_HOME located at \$ORACLE\_HOME/assistants/opca/launch.sh.

---

**Note:** This problem does not occur if you install to a remote 8.1.6 database and has only been observed in a Standard Edition install.

---

### 1.5.1.16 Response File Variable Settings for Oracle9iAS Portal Silent Install

If you wish to perform a silent install of Oracle Portal, you must set the certain variables in the response file. The variables are shown below, with sample values for each component. Note the following exceptions:

- If the Oracle HTTP Server is running on the default port (7777 on UNIX, 80 on Windows NT), then you don't need to specify it.
- If `log_tablespace`, `def_tablespace`, `doc_tablespace`, or `log_tablespace` is `USERS` and `tmp_tablespace` is `TEMP`, then you don't need to specify them.
- You should specify the parameter `b_configurePortal` only if you are performing a standalone installation of Oracle Portal.

```
[oracle.webdb_3.0.8.9.8]
```

```
#Parameter: silent
#Type: Boolean
#Description: This variable is true if silent mode is on. It is passed to the
wwv component.
silent=true
```

```
#Parameter: b_configurePortal
#Type: Boolean
#Description: This is a public variable. When set it will disable the
configuration wizard (OPCA) as well as the dialogs.
b_configurePortal=true
```

```
[oracle.webdb.wwv_3.0.8.9.8]
```

```
#Parameter: sys_password
#Type: String
#Description: System Password for Portal's OPCA
sys_password="change_on_install"
```

```
#Parameter: tmp_tablespace
#Type: String
#Description: Temporary Tablespace for Portal's OPCA
tmp_tablespace="TEMP"
```

```
#Parameter: log_tablespace
#Type: String
#Description: Logging tablespace for Portal's OPCA
log_tablespace="USERS"
```

```
#Parameter: doc_tablespace
#Type: String
#Description: Document Tablespace for Portal's OPCA
doc_tablespace="USERS"

#Parameter: def_tablespace
#Type: String
#Description: Default Tablespace for Portal's OCPA
def_tablespace="USERS"

[oracle.webdb.apache_1.3.12.0.2b]

#Parameter: port
#Type: String
#Description: This variable holds the value of the port on which the #listener
will be started. Default value for apache is 7777 on solaris #and 80 on nt.
port="7777"

#Parameter: user_input1
#Type: StringList
#Description: This variable takes the input from the first dialog.
user_input1={"portal30_sso", "portal30_sso", "a816"}

#Parameter: user_input2
#Type: StringList
#Description: This variable holds the input from dialog2.
user_input2={"portal30", "portal30", "a816"}

#Parameter: opca_tnsconnect
#Type: String
#Description: tns connect string which is required by Oracle Portal Config
Assistant. This should be in <machine name>:<port>:<sid> format. opca_
tnsconnect="machine_name:port:sid"
```

### 1.5.1.17 Web Cache Configuration Assistant Appears When Not Selected

The Web Cache Configuration Assistant starts after installation even if it is not selected in the configuration window.

### 1.5.1.18 Silent Installation of Oracle9i Application Server Wireless Not Supported

Silent installation for Oracle9i Application Server Wireless is not supported; it requires entry of information specific to Wireless and manual editing of configuration files.

### 1.5.1.19 JServ.conf Addition

If you are upgrading from the previous release of Oracle9iAS Wireless, you must make the following changes to the `jserv.conf` file, located at:

```
$ORACLE_HOME/Apache/Jserv/etc/jserv.conf
```

1. Comment out `ApJServMount /ptg /root`
2. Insert:

```
# PTG 1.1.1 Begin
ApJServGroupMount /ptg balance://group1/root
# PTG 1.1.1 End
```

If you are doing a new installation of Oracle9iAS Wireless:

1. Insert:

```
# PTG 1.1.1 Begin
ApJServGroupMount /ptg balance://group1/root
# PTG 1.1.1 End
```

### 1.5.1.20 JDBC Driver Patch Required to use Oracle9i Database

If you want to use the Oracle9i database with components such as Oracle9iAS Portal, you must patch the JDBC driver. The patch is at the top level JDBC patch directory of the Oracle9iAS Release 1, v1.0.2.2 Administrative and Development Client CD for Windows 95/98/NT (available with the release across all operating systems platforms).

1. Copy the patch to `$ORACLE_HOME/jdbc/lib`, unzip it, then execute the patch file.
2. Test the patch by running a demo such as `Employee.java` in `$ORACLE_HOME/jdbc/demo/`.

### 1.5.1.21 RDBMS Patch Install Dialog Appears

When you install Oracle9iAS Enterprise Edition, the following RDBMS patch installation dialog may appear:

"You have enabled the ORATAB\_FAIL feature by setting the environment variable ORATAB\_FAIL to TRUE. This will allow you to continue installation eventhough there is no write permission on ORATAB (/var/opt/oracle/oratab) file.

Currently ORATAB file does not exist, or is not writable by the user. You can run the orainst/oratab.sh script as the root user to create the file or modify its permissions. In that case select [Shell] to invoke a new window from which to run the oratab.sh script, or exit the installer and restart it after oratab.sh has been run.

If you decide to continue without changing the ORATAB permissions, select OK. But this installation session will not update ORATAB file and OCSM functionalities may not work properly. However running root.sh in the end will update the ORATAB file."

Select OK to continue with the installation. You do not need to start a shell or run any scripts, as suggested in the dialog.

### 1.5.1.22 Oracle Forms, Reports and Discoverer Patch Installation

When installing a patch, use <IAS\_HOME>/6iserver as your ORACLE\_HOME for Forms, Reports and Discoverer products, where <IAS\_HOME> is the ORACLE\_HOME used for Oracle9iAS.

## 1.5.2 Deinstallation and Migration Issues

### 1.5.2.1 Deinstalling Oracle9iAS Database Cache with OUI Removes Dependent Components

If you use Oracle Universal Installer to deinstall Oracle9iAS Database Cache, all services are also deinstalled. To deinstall Oracle Database cache, use the command shown below:

1. Ensure that the cache is started. If necessary, start it with the Cache Manager or the `cachstrt` script in the `$ORACLE_HOME/bin` directory.
2. Run the Database Cache Configuration Assistant, specifying the `-deinstall` option:

```
prompt>wtacca -deinstall
```

### 1.5.2.2 OraInventory Directory Requires Backup Before Migration

Before running the migration process in the Oracle Universal Installer, you must back up the OraInventory directory.

If migration fails or is cancelled in progress, subsequent attempts might also fail because of changes the installer made to the OraInventory directory. After any incomplete migration process, restore the OraInventory directory from your pre-migration backup before attempting migration again.

### 1.5.2.3 Error When Starting Oracle HTTP Server

The following error may occur when you start the HTTP Server after de-installation and re-installation of Oracle9i Application Server into the same Oracle home:

```
Syntax error on line 14 of <ORACLE_HOME>Apache/Apache/conf/mod_ose.conf:  
AuroraService - directive already in effect for this server
```

To resolve this error:

1. Open the <ORACLE\_HOME>Apache/Apache/conf/oracle\_apache.conf file.
2. Remove the duplicate of the following line:

```
include "<ORACLE_HOME>Apache/Apache/conf/mod_ose.conf;"
```

3. Re-start the HTTP Server.

### 1.5.2.4 Upgrading Oracle9iAS Wireless

You can only upgrade to Oracle 9i Application Server Wireless 1.1.1.1 (on Oracle 9i Application Server Release 1 (v1.0.2.2.0) from Oracle 9i Application Server Wireless 1.1 (on Oracle 9i Application Server Release 1 (v1.0.2.1.0)).

If you are migrating from earlier releases, you must first upgrade to Oracle 9i Application Server Wireless 1.1 (on Oracle 9i Application Server Release 1 (v1.0.2.1.0)), then up to this current release.

### 1.5.2.5 Reinstallation of Oracle9i Wireless

During Oracle 9i Application Server Wireless installation, a Wireless repository is created.

Deinstallation of Oracle 9*i* Application Server Wireless DOES NOT automatically remove the database schema. Therefore, if you reinstall Oracle 9*i* Application Server Wireless (using the same database user name as you did in the previous installation) after deinstalling the software, you must MANUALLY remove the database schema. Before you remove the database schema, backup the data under the database schema appropriately. One way to remove the database schema is to delete the Wireless database user.

For example: if during installation, you have specified *panama* as the Wireless repository owner, then:

1. Launch sqlplus connected as System user (or other user with DBA privileges)
2. Issue the commands:

```
sqlplus>drop user panama cascade  
sqlplus>commit  
sqlplus>exit
```

#### **1.5.2.6 Oracle9*i* AS Wireless 1.1.1.1.1 Requires Oracle9*i* Database Migration**

If you upgrade from Oracle8*i* database to Oracle9*i* database AFTER this maintenance release is installed, run:

##### **migrate\_8i\_to\_9i.sql**

against the database containing your Wireless repository, connecting with proper user name, password and schema name.

#### **1.5.2.7 SOAP Release Notes and Documentation Link Inactive**

After upgrading or migrating from Release 1 ( v1.0.2) or Release 1 (v1.0.2.1) to Release 1 (v1.0.2.2), the link on the index.html page titled "SOAP Release Notes and Documentation" will not work.

To resolve this problem:

1. Add the following directive to the ORACLE\_HOME/Apache/Apache/conf/httpd.conf file:

```
Alias /soapdocs/ "ORACLE_HOME/soap/"
```

(where ORACLE\_HOME is the full path to your Oracle home directory).

2. Restart the server.

### 1.5.2.8 nmxw.ora Instantiation Required After Migration

After you have migrated from Oracle9iAS Release 1 (v1.0.2.0.1) or Release 1 (v1.0.2.1) to Release 1 (v1.0.2.2), you must manually instantiate the nmxw.ora file to populate the values for the web server directives ServerRoot, ConfigFile, and ApacheVersion. If these are not populated, the Enterprise Manager Console cannot detect the HTTP Server.

The file's path is ORACLE\_HOME/network/agent/config/.

## 1.5.3 Internet Applications Solution Area Issues

### 1.5.3.1 Oracle HTTP Server *powered by Apache*

#### 1.5.3.1.1 Global Server IDs for Oracle HTTP Server *powered by Apache*

You can use Global Server IDs to legally upgrade an export-level browser to use high grade encryption (128 bit) if the Apache server contains an appropriate GS-ID certificate and the browser has been patched to accept a GS-ID certificate. While all browsers are shipped with high encryption, it is disabled for export products. Note that with the recent change in US export laws, using GS-ID will not be necessary in the future; for now, however, if you have an export grade browser and require a high level of encryption, follow the steps below to obtain a GS-ID certificate and enable your browser:

##### 1. Buy a GS-ID Certificate.

Obtain a GS-ID certificate from an appropriate vendor. Oracle has tested the GS-ID certificate from Verisign (<http://www.verisign.com/server/prd/g/index.html>).

Follow the instructions for downloading and saving the certificate on your server. After obtaining the certificate, the Oracle HTTP Server administrator must update the httpd.conf file. The lines to update are:

```
SSLCertificateFile <pathname>/gsid.crt
SSLCertificateKeyFile <pathname>/gsid.key
SSLCertificateChainFile <pathname>/gsidintermediate.crt
```

where pathname is the fully qualified path to the installed Verisign file(s).

##### 2. Buy the Browser Patch.

Obtain a patch that will allow your browser to upgrade the encryption method. Sources include Apache ([www.apache.org](http://www.apache.org)) and Fortify

([www.fortify.net/intro.html](http://www.fortify.net/intro.html)). Oracle has tested the patch from Fortify. It is straightforward to download and apply to your browser.

#### **1.5.3.1.2 Oracle Demo Certificates Replacement**

Oracle Demo certificates (that is, dummy certificates) are included with the Oracle HTTP Server *powered by Apache* build so that the server may be tested in a non-production mode. Before going to production mode, you MUST replace the Oracle Demo certificate with a real certificate.

#### **1.5.3.1.3 Errors Starting Oracle HTTP Server *powered by Apache* with "APACHECTL -START" When Using Virtual Hosts**

If the port number directive and the NameVirtualHost directive ports do not match, this error will occur. To resolve this issue, make sure that both the port and NameVirtualHost are set to the same port. This can also be resolved by not specifying a port number in the NameVirtualHost directive.

Note that this problem will only occur when starting without SSL.

#### **1.5.3.1.4 Increasing Memory for Apache JServ Applications**

If the Apache JServ log or the browser report an "Out Of Memory" condition, the cause is most likely to be that the JVM ran out of memory. This normally happens when data handled by the JVM exceeds its memory allocation pool.

To increase the maximum size of the memory allocation pool for a JVM, use the following steps:

1. Add this line to

\$ORACLE\_HOME/Apache/Jserv/conf/jserv.properties:

```
wrapper.bin.parameters=-mx<size>m
```

where <size> is the size, in megabytes, of the memory allocation pool. The default value is 1 megabyte of memory. Oracle recommends that you use a size of 128 megabytes. To set the value to 128 megabytes, add the following line:

```
wrapper.bin.parameters=-mx128m
```

2. Restart the Web server after this change so that it can take effect.

#### **1.5.3.1.5 HTTP Server Stops Responding After Prolonged Use of mod\_plsql**

Intermittently, the HTTP Server stops responding within two to three days after prolonged use of mod\_plsql.

To resolve this issue, restart the HTTP Server.

#### 1.5.3.1.6 mod\_plsql Requirement

To use the mod\_plsql module against a given back-end database, you need to manually install the Oracle PL/SQL Web ToolKit (OWA PL/SQL packages) on the back-end database. The OWA PL/SQL packages should be installed into the SYS database schema; make sure that you have only one installation of the OWA PL/SQL packages. Note that existing Oracle Application Server (OAS) customers upgrading to the Oracle9i Application Server have an older version of these packages that must be replaced.

For more information, see *Using the PL/SQL Gateway* in the Oracle9i Application Server Documentation Library. Or, you can access the online documentation available at [http://hostname.domain:port/pls/admin\\_/\\_title.htm](http://hostname.domain:port/pls/admin_/_title.htm).

#### 1.5.3.1.7 Problems with mod\_plsql Under Moderate Load

On NT, mod\_plsql crashes under moderate load. This issue is explained in Bug No. 1432961 and requires backports for Bug No. 1179779 and Bug No. 1405498 on the Oracle Client and Server side. These fixes should be applied to the 8.1.7 Oracle Client libraries in your Oracle home, and the corresponding server side fix should be applied to the Oracle Database Server.

Internal testing could not reproduce the issue on Solaris, although the bug does exist on all platforms. If you have these problems on your system, please apply the required patches (8.1.7.1.1 for the Oracle Client and Server side, and 8.1.6.3.2 for the Oracle Server side. ) to your platform as well. These patches are complete SQL\*Net patches, and information on applying them is released with them. They contain fixes other than the mod\_plsql fix described here.

#### 1.5.3.1.8 mod\_plsql Caching Error

If mod\_plsql caching is not working properly, remove the final slash from the two cache\_dir entries in  
\$ORACLE\_HOME/Apache/modplsql/cfg/cache.cfg.

#### 1.5.3.1.9 Restoring Oracle Application Server OWA Packages

When you install the new mod\_plsql OWA packages, it places them in the SYS database schema. This can create problems with Oracle Application Server applications using the PL/SQL cartridge. If you experience these problems and

want to continue to use your Oracle Application Server PL/SQL cartridge applications, you must recreate the synonyms that reference the Oracle Application Server OWA packages.

To create these synonyms on the origin database machine:

1. Connect to the origin database as the SYS user in SQL\*Plus.
2. Run the following commands in SQL\*Plus. This drops all of the OWA public synonyms created during the Oracle9i Application Server installation process.

```
drop public synonym OWA_CUSTOM;
drop public synonym OWA_GLOBAL;
drop public synonym OWA;
drop public synonym HTF;
drop public synonym HTP;
drop public synonym OWA_COOKIE;
drop public synonym OWA_IMAGE;
drop public synonym OWA_OPT_LOCK;
drop public synonym OWA_PATTERN;
drop public synonym OWA_SEC;
drop public synonym OWA_TEXT;
drop public synonym OWA_UTIL;
drop public synonym OWA_INIT;
drop public synonym OWA_CACHE;
drop public synonym WPG_DOCLOAD;
```

3. Connect to the "oas\_public" OWA package installation schema.
4. Ensure that the user schema has "CREATE PUBLIC SYNONYM" privileges. If it does not, then grant these privileges to the user schema before continuing with the next step.
5. Run the following commands in SQL\*Plus. This recreates the OWA public synonyms so that they reference the Oracle Application Server OWA packages.

```
create public synonym OWA_CUSTOM for OWA_CUSTOM;
create public synonym OWA_GLOBAL for OWA_CUSTOM;
create public synonym OWA for OWA;
create public synonym HTF for HTF;
create public synonym HTP for HTP;
create public synonym OWA_COOKIE for OWA_COOKIE;
create public synonym OWA_IMAGE for OWA_IMAGE;
create public synonym OWA_OPT_LOCK for OWA_OPT_LOCK;
create public synonym OWA_PATTERN for OWA_PATTERN;
create public synonym OWA_SEC for OWA_SEC;
create public synonym OWA_TEXT for OWA_TEXT;
```

```
create public synonym OWA_UTIL for OWA_UTIL;
create public synonym OWA_INIT for OWA_CUSTOM;
create public synonym OWA_CACHE for OWA_CACHE;
create public synonym WPG_DOCLOAD for WPG_DOCLOAD;
```

#### 1.5.3.1.10 Manual Installation of OWA Packages Causes Error

If the OWA packages are installed manually in <\$ORACLE\_HOME>Apache/modplsql/owa, a "File not found" error occurs.

To resolve the error:

1. Open the file <\$ORACLE\_HOME>Apache/modplsql/owa/owacomm.sql.
2. Change the line

```
spool ...\\portal30\\admin\\plsql\\owa\\owaldscr.sql
to
spool owaldscr.sql
```

#### 1.5.3.1.11 Executing the owaload.sql script

To make the owaload.sql script run correctly, you must always execute it in <ORACLE\_HOME>/assistants/opca/. An error occurs if you execute it in <ORACLE\_HOME>/Apache/modplsql/owa/.

#### 1.5.3.1.12 mod\_plsql Document Upload Fails if cursor\_sharing parameter set to "similar"

When running mod\_plsql against a 9.0.1 database, you will not be able to upload files if the cursor\_sharing parameter in the database initialization file initordl.ora is set to "similar". In this case, an ORA-3106 error occurs.

This problem will be corrected in the next patch release of 9.0.1. Until then, the workaround is to not use "similar" for the cursor\_sharing parameter.

#### 1.5.3.1.13 Known Issue in Upgrading from 8.1.7.0 to 8.1.7.1

If you are running Oracle9i Application Server-based mod\_plsql applications (such as Oracle Portal), please note that the upgrade to 8.1.7.1 will reinstall the default OWA packages provided with the database. These packages are older than those provided with Oracle9i Application Server/Oracle Portal and will cause issues while running some components of Oracle Portal (see bug no. 1745320 for more

details). To get around this problem, you will need to reinstall the OWA packages from the Oracle9*i* Application Server shiphome at the end of the upgrade.

If you have not yet upgraded to 8.1.7.1, there is another workaround. Edit the file \$ORACLE\_HOME/rdbms/admin/catproc.sql and comment out the "@@owacomm.sql"

line which loads OWA packages so that the upgrade script will not reload the OWA packages provided by the database. Instead, the OWA packages already loaded in the database from Oracle9*i* Application Server will be preserved.

---

**Note:** If you reinstall the OWA packages, you should recompile all dependent objects that are invalidated.

---

#### 1.5.3.1.14 mod\_rewrite Security Vulnerability

A security vulnerability is present in mod\_rewrite that allows certain rules to offer access to any file on the Web server. To avoid these problems, rewrite rules should always map to a full URL rather than mapping directly to a file.

For example, if you have a Web server where DocumentRoot is set to /webroot, do not use:

```
RewriteRule /foobar/(.*) /webroot/myfiles/$1
```

which directly maps the request to a filesystem location. Rather, use a rule such as:

```
RewriteRule /foobar/(.*) http://myserver.mydomain.com/myfiles/$1
```

which restricts access to files that are accessible by the Apache instance (that is, files under the DirectoryRoot directory tree).

**1.5.3.1.15 No Support for CA Facilities of OpenSSL** The Certifying Authorities (CA) facilities of OpenSSL are not supported and should not be used. Oracle9*i* Application Server has moved to the Certicom SSL stack, which does not include the CA features of SSL. You should use the openssl command only for generating certificate requests. Other functionality such as examining certificates, signing certificates, and so on, are not supported by Oracle.

#### 1.5.3.1.16 mod\_ssl Limitations

In this release, the symmetric encryption algorithms RC2, RC5, IDEA are not supported.

#### 1.5.3.1.17 mod\_oprocmgr Documentation Incorrect

The document *Using mod\_oprocmgr with mod\_jserv* in the Oracle9i Application Server Documentation Library (Part No. A90282-01) refers to a status handler that is not completely functional. The items below enclosed in quotation marks should be deleted from the document in order for it to reflect the current functionality of mod\_oprocmgr:

Page 2, System Administration section:

"mod\_oprocmgr provides a status handler which displays process information stored in shared memory."

Page 3, Changes to httpd.conf section:

```
"<Location /oprocmgr-status>
  SetHandler oprocmgr-status
</Location> "
```

Page 4, Changes to jserv.properties section:

```
"or
port=8007 9000-9010 8010 "
```

Page 7, Checking JServ Process Status section:

"The directive shown in "Changes to httpd.conf" includes a status handler that enables you to monitor JServ processes managed by mod\_oprocmgr. You can access the status handler at <http://myhost:port/oprocmgr-status>, and display a page similar to that shown below."

(The screen capture should also be removed because it shows buttons that are not functional.)

"If there are zeroes instead of port numbers in the Process Port column, it could be that the JServ processes have not yet registered with the process manager. If you refresh the browser window and the port numbers still do not appear, then the JServ processes were unable to start (possibly because the specified ports were unavailable). Ensure that the specified ports are free, and that you have allotted enough port numbers for the JServ processes. To determine the cause of errors, see jserv.log and mod\_jserv.log."

#### 1.5.3.1.18 HTTP Server Infrastructure Watcher May Suspend JVM

The infrastructure contains a watcher component that monitors the automatically started JServ processes. If a JServ process stops responding, the watcher terminates

it and starts another process to replace it. If the JVM is heavily loaded or performing garbage collection, the JVM will also be suspended. To prevent the JVM from terminating, increase its timeout value (ApJServVMTTimeout) in the jserv.conf file, or decrease the JVM heap size to reduce garbage collection time.

#### 1.5.3.1.19 Valid Servlet Requests Fail on Second Request Using Same URL

If a valid servlet is requested once, and then requested again a second time using the URL-encoded version of the servlet's URL, then the second request may fail with an error logged in the Apache error\_log.

For example, the second URL in the example below may cause an HTTP error:

```
http://mysite/demo/basic/hellouser/hellouser.jsp
http://mysite/demo/basic/hellouser%2ejsp
```

The server will continue to run, and the unencoded version of the URL continue to function properly.

The workaround is to always use the encoded version of each URL or always use the unencoded version of each URL. If it is necessary to mix them, always use the encoded version before using the unencoded version (for each run of the server).

#### 1.5.3.1.20 DMS Clients Require Configuration Change

DMS clients, including flexmon, oasomo, ohsTree, and EMD require a small configuration change to soap.properties in order to operate properly. The SOAP server (and every process group with its own JServ properties file) must contain a zone called "root". DMS clients use this zone to retrieve performance metrics.

To add the "root" zone to the soap.properties file, you must change one line in soap.properties and add one new line to soap.properties.

To make these changes:

1. Open the %ORACLE\_HOME%/Apache/Jserv/etc/ jservSoap.properties file and change the line that looks like this:

```
zones=soap
```

to this:

```
zones=soap,root
```

Following the line that looks like this

```
soap.properties=%ORACLE_HOME%/soap/webapps/soap/WEB-INF/config/soap.properties
```

Add this line:

```
root.properties=%ORACLE_HOME%/Apache/Jserv/etc/zone.properties
```

(replace %ORACLE\_HOME% with your expanded ORACLE\_HOME environment variable)

2. Restart the server.
3. To test, use this URL (replace mysite with the hostname:port of your site):

```
@ http://mysite/dms/Aggrespy
```

The first access to the URL may indicate that some metrics are not available, but subsequent accesses should return valid metric values. If the server is not configured correctly, then the URL will cause long timeout delays, errors in the Apache error\_log file, and error responses to the HTTP request.

#### 1.5.3.1.21 LANG Environment Variable in JServ

The LANG environment variable specifies the default locale for application programs. To make servlets and JSPs work properly in non-English locales, you must perform the following steps after installing Oracle9iAS, and before starting the Oracle HTTP Server:

1. Open \$ORACLE\_HOME/Apache/Jserv/etc/jserv.properties file so that the default locale of the Java VM running the Servlets and JSPs can be initialized corresponding to the LANG environment variable.

```
#wrapper.env.copy=LANG
```

#### 1.5.3.1.22 HTTP Server Timeouts Under Heavy Load

When the Oracle HTTP Server is under heavy load, requests may time out, resulting in incomplete transmission of large (over 10 MB) static files. To remedy this, increase the value of TimeOut directive in httpd.conf.

### 1.5.3.2 Oracle9iAS Forms Services

#### 1.5.3.2.1 Graphics Builder Environment Variable Must Be Set on UNIX

To make Graphics integration dmwork, you must set the following environment variables:

```
setenv PRINTER <printer name>
setenv TK2_PRINT_STATUS echo
```

### 1.5.3.2.2 JInitiator 1.1.7.31 HTTP(S) Limitations

This release of Oracle9i Application Server ships with JInitiator 1.1.7.31. This JInitiator release does not work using HTTP(S) communication for Oracle9iAS Forms Services because of a missing DLL. To enable HTTP(S) communication with Oracle9iAS Forms Services, download the latest JInitiator from the Oracle Technology Network (OTN) at:

<http://technet.oracle.com/products/forms>

Click the Software tab and select the latest JInitiator posted, Release 1.1.7.32 or later.

---

**Note:** This release of Oracle9iAS Forms Services (6.0.8.11) has not been tested with releases of JInitiator earlier than 1.1.7.31.

---

### 1.5.3.2.3 Internet Explorer 5.0 Native JVM Limitations

Oracle9iAS Forms Services provides a signed CAB file to enable bronze support for Internet Explorer 5.0 running the native JVM (Java Virtual Machine). This support requires that the HTTP(S) Forms Server and Web listener run on the same machine.

The following are current limitations when running with Internet Explorer 5.0 and the native JVM:

1. In HTTP or HTTPS mode, Forms Server and Web listener need to run on the same machine.
2. In HTTPS mode, Oracle9iAS Forms Services cannot communicate through a firewall.
3. In HTTPS mode. Oracle9iAS Forms Services applet must be downloaded in HTTPS mode.
4. In HTTPS mode, the heartbeat applet parameter must be set to a low value to maintain communication with the server. The value 0.3 (minutes) has been tested and verified.

For the latest information about the current level of client support and HTTP(S) restrictions, refer to the *Client Platform Statement of Direction* document at:

<http://technet.oracle.com/products/forms>

#### **1.5.3.2.4 Oracle9iAS Forms Services non-SSL Listener Requirement**

Oracle9iAS Forms Services requires that Apache be listening on at least one port in non-SSL mode, because Oracle JInitiator cannot download the Forms Applet via SSL.

#### **1.5.3.2.5 Oracle 9iAS Forms/Enterprise Manager Limitations**

A patch is available on ARU and Metalink to resolve the following problems:

Bug 1286040, version 2.1 - NLS: Multibyte characters in Forms Listener Process Log are corrupted

Bug 1544477, version 6.08.11.3 - Event de-registering causes Error VD-1525

Bug 1549369, version 2.2.0 - Cannot de-register Forms Listener Up/Down Event

Bug 1554211, version 2.2 - Forms event fails with database version 8.1.7

Bug 1562864, version 2.1 - Oracle Agent cannot discover Forms servers in multiple Oracle homes on the same server

Bug 1562887, version 2.1.0.1.0 - Multiple SIDs will not start the Forms listener from Oracle Enterprise Manager

Bug 1383239, version 6.0.8.8 - OEM startup job returns "completed" status if it fails

Bug 1479367, version 8.1.7 - nmiforms.tcl is looking for an ORACLE\_HOME environment variable in the wrong way

#### **1.5.3.2.6 Patch for Oracle9i Database When Using ADTs and char Fields in Compound Key**

If you are using ADTs or char fields in a compound key with an Oracle9i database, you should apply Forms patch 1777190 on top of your Oracle9iAS Release 1 (v 1.0.2.2) installation.

### **1.5.4 Portals Solution Area Issues**

#### **1.5.4.1 Oracle9i Application Server Portal**

##### **1.5.4.1.1 Cannot Install Reports Scripts Into Multiple Instances of Oracle9iAS Portal in Same Database**

If you upgrade to Release 1 (v1.0.2.2) from an earlier version of Oracle9i Application Server, but do not upgrade Oracle9iAS Portal to version 3.0.9, you will not be able to install reports scripts into multiple instances of Oracle9iAS Portal,

#### 1.5.4.1.2 High Load on Portal Pages Causes Core Dump

Under high load (in testing with 500 clients), a Portal page causes a core dump in the database. The remedy is to increase the database shared pool size.

**1.5.4.1.3 Report Output Requirement** To schedule a report page in Oracle9iAS Portal, you must specify the output folder name and the status folder name in the Schedule Report Page dialog box. If you do not specify these names, the report output will not display in the content area for which the report component is defined.

### 1.5.5 Wireless Solution Area Issues

#### 1.5.5.1 Oracle9i Application Server Wireless

##### 1.5.5.1.1 Adapters

To address language-encoding issues, new optional input parameters have been added:

- **INPUT\_ENCODING** has been added to the URL adapter enabling it to specify the remote XML page's charset.
- **inputEncoding** has been added to StripAdapter enabling it to specify the remote HTML page's charset.

##### 1.5.5.1.2 Transformers

The HDML, TINY\_HTML and WML1.1 transformers have been modified. By default, these modified transformers will NOT be loaded into the Repository.

If you HAVE NOT made changes to the Transformers, simply upload **up11-111.xml**.

If you have modified the shipped version of these transformers: 1.) merge the differences, then 2.) upload the new transformers using the LoadXML utility (you can use **upload.bat**/or **upload.sh**, depending on your hardware platform, with **up11-111.xml** shipped with the patch release). You can find the **upload.bat**/or **upload.sh** script file in panama/sample under ORACLE\_HOME. See *Oracle9i*

---

*Application Server Wireless Edition Configuration Guide* for more information on the LoadXML utility.

#### **1.5.5.1.3 New Search/Sort Feature Introduced into Service Designer**

When you right click on the Master Services node or a folder node, you will find a Search/Sort command. You can search on service names (service names are case-insensitive); wild cards (such as '%') are accepted. Search results can be sorted by Name, LastUpdated Date, or Sequence Number.

The new Search feature is more efficient when you are trying to load a large number of services.

The search results will be the new child nodes of the folder which will be automatically expanded. After you collapse the folder and re-expand it, all of its children will be loaded by default. In either case, if the result set is too large and surpasses the limit size specified in ptgsd.properties, you will receive a warning, and only part of the result set will be loaded. In this case, if your expected service is not displayed, you must fine tune your search criteria and reaccomplish the search.

#### **1.5.5.1.4 Debugging**

Sending the PAdebug=1 flag as part of a query string will not, by itself, enable the debugging capability. The login user for the current session must be either a Designer or an Administrator. See *Oracle9i Application Server Wireless Edition Implementation Guide* for information on how to create a Designer or an Administrator.

#### **1.5.5.1.5 Testing Wizard**

You must have the Designer role in order to use the Test Wizard inside the Service Designer, otherwise only the device result will be displayed when a service is being tested.

#### **1.5.5.1.6 JDBC Driver**

This release of Wireless Edition only supports the classes12.zip JDBC driver. classes111.zip is no longer supported.

**1.5.5.1.7 Supported Devices and Gateways** For a list of certified devices and gateways supported by Wireless Edition, see the OTN web site at:

<http://otn.oracle.com/products/iaswe>

**1.5.5.1.8 Third Party Location Service Providers** To obtain third party files for using location services in Wireless Edition, see the OTN web site at:

<http://otn.oracle.com/products/iaswe>

#### **1.5.5.1.9 Database Connections**

The default database created by the Oracle8i installation may not be tuned properly for your installation. The "ORA-00020: maximum number of processes exceeded errors" message may appear.

To prevent this, ensure that the `max_processes` database parameter is set high enough, and that the Oracle Net8 dead process detection is configured in your system. See the Oracle8i documentation for more detailed database configuration and performance information.

**1.5.5.1.10 Notifications** When using Oracle9iAS Wireless Edition notifications (the AQ Daemon process), note that if a job terminates with an error, it is removed from the job queue. To continue to use the job, correct the error and reschedule the job.

#### **1.5.5.1.11 Bootstrap Repository Provisioning Service**

To use the Provisioning Service in the bootstrap repository, you must first set the input parameters of the master service to be User Customizable.

#### **1.5.5.1.12 SQL Adapter Master Services**

Numeric input parameter names are not allowed in the master service PL/SQL code.

Also, JDBC connect strings that specify a user name and password are not allowed, for example:

`jdbc:oracle:thin:user/password@hostname:port:sid`

The connect string information must be of the form:

`jdbc:oracle:thin:@hostname:port:sid`

The user name and password must be specified in the User Name and Password fields in the Service Designer.

#### **1.5.5.1.13 Bookmarks in the Personalization Portal**

When creating a bookmark in the Personalization Portal, the `http://` prefix must be included in the URL, for example:

`http://domain_name.com`

#### 1.5.5.1.14 Service Designer Folder Contents Display

This release of Oracle9iAS Wireless allows you to limit the number of objects displayed in the Service Designer navigational tree. To enable this feature, set the number of objects you want to display by editing the `ptgsd.properties` file.

#### 1.5.5.1.15 Multibyte Character Set Support

To support multibyte character sets in Oracle9iAS Wireless, apply the following configuration changes to your server. (The Java Virtual Machine (JVM) bundled with Web Integration Developer and Web Integration Server does not contain the `i18n.jar` and `font.properties` files and therefore does not support multibyte character sets.)

On the application server:

1. Download the internationalized (or localized) version of the Java Runtime Environment (JRE) from the JavaSoft Web site.
2. Replace the `font.properties` file of the JVM with `font.properties.<locale>`.

The JVM path for the server is:

`%ORACLE_HOME%/panama/WebIntegration/Server/jvm/lib`

3. Edit the `server.sh` file to add the following as a Java command line option:  
`-Dfile.encoding=< encoding>`

The path for the server script is:

`%ORACLE_HOME%/panama/WebIntegration/Server/bin/server.sh`

For example:

```
%JDKDIR%/bin/java -Dfile.encoding=SJIS -ms64M -mx256M classpath %CLASSPATH%  
watt.app.server.Main %1 %2 %3 %4 %5 %6 %7 %8 %9
```

#### 1.5.5.1.16 Multibyte Character Set Support on Client

To support multibyte character sets in Oracle9iAS Wireless, apply the following configuration changes to your client installations. (The Java Virtual Machine (JVM) bundled with Web Integration Developer and Web Integration Server does not contain the `i18n.jar` or `font.properties` files and therefore does not support multibyte character sets.)

On the Oracle9iAS Wireless client:

1. Download the internationalized (or localized) version of the Java Runtime Environment (JRE) from the JavaSoft Web site at:

```
http://java.sun.com/products/jdk/1.2/jre
```

2. Install the Java Runtime Environment (JRE) from JavaSoft.
3. Replace the `font.properties` file of the JVM with `font.properties.<locale>`. The JVM path for the client is:

```
%JREDIR%\lib
```

For example:

```
SET JDKDIR=jre1.2\lib
```

4. Extract the `developer.zip` file. The path for the file is:

```
%ORACLE_HOME%\panama\WebIntegration\Developer\lib\developer.zip
```

Extract the file's content to:

```
%ORACLE_HOME%\panama\WebIntegration\Developer\lib\developer\
```

5. Edit the `developer.bat` file. The path for the file is:

```
%ORACLE_HOME%\panama\WebIntegration\Developer\bin\developer.bat
```

- a. Comment out (REM) the following line:

```
SET JDKDIR=C:\OraHome1\panama\WebIntegration\Developer\jvm
```

- b. Point `JDKDIR` to the new JRE directory where JRE1.2 is installed, for example:

```
REM SET JDKDIR=C:\OraHome1\panama\WebIntegration\Developer\jvm  
SET JDKDIR=jre1.2
```

- c. Comment out (REM) the following line:

```
SET CLASSPATH="%JDKDIR%\LIB\RT.JAR;%DEVDIR%\LIB\DEVELOPER.ZIP;  
%DEVDIR%\packages\wmroot\code\classes"
```

d. Change DEVELOPER.ZIP to DEVELOPER in the CLASSPATH. For example:

```
SET CLASSPATH="%JDKDIR%\LIB\RT.JAR;%DEVDIR%\LIB\DEVELOPER;  
%DEVDIR%\packages\wmroot\code\classes"
```

e. Comment out (REM) the following line:

```
%JDKDIR%\bin\jre" -ms16M -mx32M -classpath %CLASSPATH%  
watt.app.watt.Main -config "%DEVDIR%\config\developer.cnf"  
-home "%DEVDIR%" %1 %2 %3 %4 %5 %6 %7 %8 %9
```

f. Add the following line:

```
-Dfile.encoding=<encoding>
```

Add the line as a Java command line option, such as:

```
%JDKDIR%\bin\java" -Dfile.encoding=<encoding> -ms16M  
-mx32M -classpath %CLASSPATH% watt.app.watt.Main -config  
"%DEVDIR%\config\developer.cnf" -home "%DEVDIR%"  
%1 %2 %3 %4 %5 %6 %7 %8 %9
```

For example:

```
%JDKDIR%\bin\java" -Dfile.encoding=SJIS -ms16M -mx32M  
-classpath %CLASSPATH% watt.app.watt.Main -config  
"%DEVDIR%\config\developer.cnf" -home "%DEVDIR%"  
%1 %2 %3 %4 %5 %6 %7 %8 %9
```

#### 1.5.5.1.17 Images in the Personalization Portal

To display the images from the Personalization Portal properly, the DISPLAY environment variable in the jserv.properties file must be set properly to configure access to the host on which the server runs.

If the X server runs on the same machine as the Oracle9iAS Wireless server, the DISPLAY environment variable in the jserv.properties file is set by the installation as follows:

```
wrapper.env=DISPLAY=localhost:0.0
```

From the X server host machine (x\_server\_host\_name in the following example) run the following command:

```
prompt>xhost + <x_server_host_name>
```

If the X server runs on a different machine (*x\_server\_host\_name* in the following example) than the Oracle9iAS Wireless server, set the DISPLAY environment variable in the *jserv.properties* file as follows:

```
wrapper.env=DISPLAY=<x_server_host_name>:0.0
```

From the X server host machine, run the following command using the Oracle9iAS Wireless host (*wireless\_edition\_host\_name* in the following example):

```
prompt>xhost + <wireless_edition_host_name>
```

For both cases, remain logged into the console while the *xhost* commands are executed. Otherwise, properties set through the *xhost* command may be lost and images may not be displayed properly in the Personalization Portal.

#### **1.5.5.1.18 Web Integration Components and JDK**

Web Integration Server requires JDK 1.1. If you experience problems with this component, check the Java settings in the following startup file: *%ORACLE\_HOME%\panama\WebIntegration\Server\bin\server.bat*. In some cases, Oracle 8.1.6 on Windows NT modifies a machine's Java environment. As a result, Oracle9iAS Wireless Web Integration Developer may generate error messages or fail to start. To fix the problem, either restore your original Java environment by reinstalling Java, or verify that the Web Integration Developer starts with the JVM from the 8.1.6 installation. To do this, modify the following file:

```
%ORACLE_HOME%\panama\WebIntegration\Developer\bin\developer.bat
```

Change the line:

```
SET JDKDIR=%ORACLE_HOME%\panama\WebIntegration\Developer\jvm
```

to:

```
SET JDKDIR=%ORACLE_HOME%\jre\1.1.7
```

#### **1.5.5.1.19 Failed to Load Large XML File from Service Designer in Oracle9i Application Server Wireless**

A problem has been discovered concerning corruption of some XML stylesheets (especially in large files) when they are loaded from ServiceDesigner. It is caused by the XML Parser. A patch has posted at:

```
tcpatch:/u01/patch/xdkpatches/bug1736840
```

This directory contains three files: **README**, **changed\_classes.zip** and a new **xmlparserv2.jar**. The readme file inside the patch directory contains more detailed information about the nature of the problem.

To apply the patch, copy **xmlparserv2.jar** to `$ORACLE_HOME/lib`.

#### 1.5.5.1.20 Personalization Portal

The PAPz-based personalization portal released before Oracle9iAS Wireless Edition 1.1 is being officially deprecated in the Oracle9iAS Release 1 (v1.0.2.2.0) release, and will be totally de-supported in the next (2.0) production release. The portal-based personalization portal will be the preferred personalization portal and will be the only supported personalization portal in the next production release.

### 1.5.6 Caching Solution Area Issues

#### 1.5.6.1 Oracle9iAS Database Cache

##### 1.5.6.1.1 Using Oracle9iAS Database Cache with Servlets

To access data cached in the middle tier using servlets, you must enable Oracle9iAS Database Cache by setting the `ORA_OCI_CACHE` environment variable in the servlet environment. Add the following line to the `jserv.properties` file in the `$ORACLE_HOME/Apache/Jserv/etc` directory:

```
wrapper.env=ORA_OCI_CACHE=1
```

In addition, the `TNS_ADMIN` environment variable must be set to the location of the local network configuration. By default, the value is `$ORACLE_HOME/network/admin`. Add the following additional line to `jserv.properties`:

```
wrapper.env=TNS_ADMIN=<absolute path to Oracle Home>/network/admin
```

##### 1.5.6.1.2 loadjava Limitation in Oracle9iAS Database Cache Environment

Because of known issues with LOB support in the Oracle9iAS Database Cache environment (when ORA\_OCI\_CACHE is set to 1), the loadjava utility will not work.

#### 1.5.6.1.3 Changes to tnsnames.ora and init.ora Requirement

To use the Oracle9iAS Database Cache PL/SQL API, you must connect using a Net8 net service name that is constructed using the service name, not the SID. As a result, the tnsnames.ora and init.ora file shipped with this release of Oracle9i Application Server need to be changed. See the Oracle9iAS Database Cache README file for information about the necessary changes.

#### 1.5.6.1.4 Oracle9iAS Database Cache Configuration Assistant Failure

The Oracle9iAS Database Cache Configuration Assistant fails when 'Updating User List' is 96% complete. The following error appears:

```
Updating User List
  Adding users to the cache
  Adding users to the cache failed.
  Reason: WTE-03501 Error updating list of users:
    Export failed on origin database.
    OCI error - ORA-06520: PL/SQL: Error loading external library
    ORA-06522: dlopen: cannot load /lib/libc.so
    ORA-06512: at "SYS.WTCSYS", line 11
    ORA-06512: at "SYS.WTCSYS", line 66
    ORA-06512: at line 1
  Processing failed.
```

A patch for all Oracle9iAS Release 1 (v1.0.2) releases is available to fix this problem. The patch is not specific to NT as reported, but fixes the problem on all Oracle9iAS Database Cache platforms that have an Oracle origin database running on the following UNIX operating systems:

- HP-UX
- Compaq Tru64
- IBM AIX

Follow these steps to apply the patch:

1. Complete the Oracle9i Application Server installation after the error described above occurs.
2. Copy `wtcsini.plb` to the following directory:

WIndows NT: <ORACLE\_HOME>\icache\admin

UNIX: <ORACLE\_HOME>/icache/admin

Rerun the Oracle9iAS Database Cache Configuration Assistant from the bin directory.

Windows NT:

```
cd <ORACLE_HOME>\bin
wtacca -create -typical "username=sys" "password=your_password"
```

Unix:

```
cd <ORACLE_HOME>/bin
wtacca -create -typical "username=sys" "password=your_password"
```

The Oracle9iAS Database Cache Configuration Assistant completes without errors.

#### **1.5.6.1.5 Oracle Database Cache Stops Responding When Caching a Table That Contains a Context Index**

Using the dbms\_icache.add\_table procedure to cache a table that contains a context index will cause Oracle Database Cache to stop responding, or "hang." This will also generate an ORA-600 error in the back-end database. Currently, there is no fix available to resolve this issue.

#### **1.5.6.1.6 Cache Environment Variable Setting**

A problem with the ORA\_OCI\_CACHE system environment variable causes mod\_plsql to suspend or stop under moderate load. Ensure that this variable is not set when the Oracle HTTP Server is started.

### **1.5.6.2 Web Cache**

#### **1.5.6.2.1 Configuration Assumes Incorrect Listener Port**

The default configuration of Oracle9iAS Web Cache assumes that the primary Web listener is listening on port 7777. Oracle HTTP Server chooses the port number to listen on dynamically when installed.

If the HTTP Server chooses a port other than 7777, Oracle9iAS Web Cache will return an error when trying to access its own port of 1100 because it is unable to connect to port 7777 of the web server.

To correct this problem, change the port number in the "Application Web Servers" screen of the Web Cache Manager to the port on which the HTTP Server is listening.

#### **1.5.6.2.2 Oracle9iAS Web Cache Core Dumps if Capacity Parameter Too Low**

If the number of requests processed is much larger than the capacity parameter setting, and most of the requests are made to non-cacheable pages, then the web cache may core dump.

To remedy this, set the capacity parameter to a number close to the number of requests expected. A core dump did not occur in a test with 400 clients requesting a non-cacheable page, with the capacity parameter set to 400. In the same test, with the parameter set to 30 (the default), a core dump occurred.

The capacity parameter setting is located in the Application Web Server section.

### **1.5.7 Business Intelligence Solution Area Issues**

#### **1.5.7.1 Oracle9iAS Reports Services**

##### **1.5.7.1.1 Reports Service Fails to Start**

If you have set the TNS\_ADMIN environment variable or registry key to an alternate value, Oracle9iAS Reports Service may fail to start with an error 186 or REP-0186. In such a case, you can start Oracle9iAS Reports Service from an MS-DOS command prompt as follows:

```
prompt> setenv TNS_ADMIN <IAS_HOME>/6iserver/network/admin
prompt> <IAS_HOME>/6iserver/reports60_server start
```

replacing <IAS\_HOME> with the directory where you installed Oracle9i Application Server. This will force Oracle9iAS Reports Service to use the tnsnames.ora file at <IAS\_HOME>/6iserver/network/admin.

##### **1.5.7.1.2 Oracle9iAS Reports Services Hangs Upon Authentication** Oracle9iAS Reports Services hangs when users authenticate.

To make Reports Portal integration work seamlessly, apply tcpatch 6\_0\_8\_11\_3.

##### **1.5.7.1.3 Oracle9iAS Discoverer**

---

**1.5.7.1.4 xhost Command Required for Oracle9i Application Server Enterprise Edition for Discoverer** An XWindow display must be available to the Oracle Discoverer servlet for its graphing and charting functions. After you install the Enterprise Edition, you must grant XWindow permissions to the host named in the DISPLAY environment variable in:

```
$ORACLE_HOME/.../Apache/JServ/etc/jserv.properties
```

By default, the DISPLAY variable is the hostname of the machine running Oracle9i Application Server. In order for Apache JServ to function properly, you must log in to the console of the host named in the DISPLAY environment variable and issue the xhost command.

For example, if 9iAS is installed on the host london, the DISPLAY environment variable setting in jserv.properties will be:

```
wrapper.env=DISPLAY=london:0.0
```

You must log in to the console of the host london and issue the following command:

```
prompt>/usr/openwin/bin/xhost +london
```

If you change the value of DISPLAY in jserv.properties to a different host, you must log in to the console of that host and grant it the XWindow permissions.

For example, suppose 9iAS is installed on the host called london, but the DISPLAY variable in jserv.properties is changed to the host berlin, as shown below:

```
wrapper.env=DISPLAY=berlin:0.0
```

Before using Apache JServ, you must log into the console of berlin and execute the following command to grant london permission to use berlin as a display:

```
prompt>/usr/openwin/bin/xhost +london
```

---

**Note:** Each time the DISPLAY host system is restarted, you must issue the xhost command.

---

**1.5.7.1.5 Using Oracle Internet Server (Discoverer3i) and Oracle9iAS Discoverer (Discoverer 4i) Simultaneously**

Oracle Internet Server (Discoverer3i) and Oracle9iAS Discoverer (Discoverer4i) share several common components. To run Discoverer3i and Oracle9iAS Discoverer (Discoverer4i) on the same machine, you must execute the following scripts in the order shown below:

1. <iAS\_HOME>/6iserver/discwb4/util/stopall.sh
2. <iAS\_HOME>/6iserver/discwb33/util/startoad.sh
3. <iAS\_HOME>/6iserver/discwb33/util/startosagent.sh
4. <iAS\_HOME>/6iserver/discwb33/util/startlocator.sh
5. <iAS\_HOME>/6iserver/discwb4/util/startlocator.sh

#### **1.5.7.1.6 Setting up the VNC Server to replace DISPLAY requirement in Oracle Discoverer, Portal, and Reports**

The following instructions explain how to install and configure the VNC X-Windows server software to be in conjunction with an Oracle9i Application Server Release 1 (v1.0.2.2) installation on Sun Solaris. This is used as a substitute for the requirement of the 'xhost +machinename' command when running Discoverer 4i and Oracle Portal, and allows the software to be run in a more secure mode. This software removes the requirement for the user to execute the 'xhost' command and also eliminates the need to remain logged into the Sun machine. This is because the 'xhost' setting is session dependent, and is therefore lost when the user logs out of the machine on which the command was issued.

Using this VNC software to mange the X-windows sessions in the background, the Oracle9i Application Server software is run using this as the VNC Xwindows server, without needing to access the standard X-windows system. The steps to implement this are as follows:

1. Download the VNC software. (You can download pre-built binaries from <http://www.uk.research.att.com/vnc/>, or download the source and build it.)
2. Install the VNC Server.
  - a. Unzip the install files into a directory of your choice.
  - b. Ensure that this directory location is included in the PATH environment variable. The safest option is to create a directory and then add this location to you PATH environment variable (e.g. /private/userhome/VNC).
3. Start the VNC server with the following command:

```
prompt>vncserver :13 -pn -localhost
```

The server starts on display number 13. You can use any display number, as long as it is available and unused by any other software. The default display value is 1.

A password prompt appears (if this is the first time you are starting VNC after installing it).

4. Set a password. Be sure to remember it for future reference.
5. Start the VNC server again:

```
prompt>vncserver :13 -pn -localhost
```

The following message appears (where 'oracle-sun' is the machine name):

```
New 'X' desktop is oracle-sun:13
```

```
Starting applications specified in /private1/oracle/.vnc/xstartup
Log file is /private1/oracle/.vnc/oracle-sun:13.log
```

6. Verify the VNC server started up correctly by entering:

```
prompt>cat /private1/oracle/.vnc/oracle-sun:13.log
```

A listing similar to that below appears:

```
20/02/01 15:37:59 Xvnc version 3.3.3r2
20/02/01 15:37:59 Copyright (C) AT&T Laboratories Cambridge.
20/02/01 15:37:59 All Rights Reserved.
20/02/01 15:37:59 See http://www.uk.research.att.com/vnc for information on
VNC 20/02/01 15:37:59 Desktop name 'X' (oracle-sun:1)
20/02/01 15:37:59 Protocol version supported 3.3
20/02/01 15:37:59 Listening for VNC connections on TCP port 5903
20/02/01 15:37:59 Listening for HTTP connections on TCP port 5803
20/02/01 15:37:59 URL http://oracle-sun:7777
Can't find include file /private1/oracle/.Xresources
```

7. Edit the following lines in the `jserv.properties` file located in:

```
/$ORACLE_HOME$/Apache/jserv/etc/
```

```
#Oracle Portal
wrapper.env=DISPLAY=oracle-sun:13.0
```

```
#RV adding lines for disco4iv
wrapper.env=DISPLAY=oracle-sun:13.0
```

Ensure that the entries for both Discoverer and Oracle Portal are the same, so that both values point to the VNC Server. The key is the value chosen as part of the install (in this example, the display number 13).

8. Set the `DISPLAY` environment variable for JServ with the following command:

```
setenv DISPLAY oracle-sun:13.0
```

---

**Note:** This is always required before starting the HTTP Server. You must also execute the next step each time you start the server.

---

9. Set the DISPLAY environment variable for Oracle Reports by performing the following steps:

- a. Edit the Reports configuration file:

```
/$ORACLE_HOME/6iserver/reports60_server
```

- b. Change the line

```
DISPLAY=:0.0
```

```
to
```

```
DISPLAY=oracle-sun:13.0
```

10. Set the xhost value for starting the HTTP Server and JServ with the following command:

```
xhost +oracle-sun
```

where oracle-sun is the machine name. You cannot use 'localhost' to refer to the machine name. JServ will not work without the specific machine name.

---

**Note:** You need only run this command before starting the Oracle HTTP Server. However, if the HTTP Server is stopped, you must re-execute this command before the HTTP Server is started again. The same is true of the DISPLAY setting.

---

11. Start the Oracle HTTP Server.

The virtual X display starts. You can log off of the console, and the VNC Server will continue to start X Windows sessions for the Discoverer software when required.

12. (Optional) To stop the VNC server, enter this command:

```
vncserver -kill :13
```

The server stops.

13. (Optional) To restart the server, perform step 3, then steps 5 through 9 (step 4 is excluded because you will not need to set a password). You must perform these steps each time the VNC server, Discoverer, or Portal is re-started.
14. (Optional) If you want to run VNC in a more secure mode, see <http://www.uk.research.att.com/vnc/sshvnc.html> about using VNC with ssh.

#### 1.5.7.1.7 Oracle9iAS Discoverer Patch

A patch is now available for Oracle9iAS Discoverer. The patch resolves a number of issues and also automates the migration of user preferences from Discoverer3i to Discoverer4i. We strongly advise you to obtain and apply this patch as part of the process of installing and configuring Oracle9iAS Discoverer.

You can obtain the patch from Oracle Metalink at:

<http://metalink.oracle.com/>

or through the usual support channels.

1. Login to MetaLink.
2. Click on the 'Patches' tab in the left-hand navigation bar. Metalink patch areas have changed, so follow the directions below.
3. On the new page, click on the link :  
"=> NEW! Click here for ALL Product Patches"

The patchset numbers are:

1750560: Discoverer Plus and Viewer Version 4.1.36 patch for Sun SPARC Solaris

#### 1.5.7.1.8 Discoverer 3i Viewer Server Fails on Non-Pseudocolor X11

There is an known issue with ORCA installer running on the X emulator. It happens in the Oracle9i Application Server Enterprise Edition install which launches the ORCA/orainst installer to install Discoverer. The orainst installer has a bug that prevents it from running against some types of X emulators. As a result, orainst does not launch and Discoverer scripts are not installed.

Exceed for Win32 X Server and Reflection X Server for Win32 will work, if you set the visual to PsuedoColor:

1. Start the Xconfig program and select "Screen Definition".
2. Set the "Visual" to PsuedoColor.
3. Reset the server.

## 1.5.8 Management Solution Area Issues

### 1.5.8.1 Oracle Enterprise Manager

#### 1.5.8.1.1 Error Returned When Accessing Oracle Enterprise Manager Through a Browser

When you try to access Oracle Enterprise Manager with a browser, an error is returned because your system cannot find the `oem.conf` file. The Oracle Enterprise Manager entry in the `oracle_apache.conf` file contains both backslashes and forward slashes. This is incorrect.

Edit the entry as shown below to resolve this issue.

The incorrect entry is

`D:\Oracle\M6/oem_webstage/oem.conf`

The correct entry is

`D:\Oracle\M6\oem_webstage\oem.conf`

#### 1.5.8.1.2 Error Occurs When Expanding JServer Node in Enterprise Manager Navigator Window

If JServer is installed at a port number other than 2481, the following error occurs when you try to expand the JServer node in the Navigator window:

`org.omg.CORBA.INTERNAL (completed=MAYBE)`

To work around this error, enter the correct JServer port number in the dialog box that appears with the error message.

#### 1.5.8.1.3 HTTP Server Port Number Not Shown in the Enterprise Manager Navigator Window

The port number associated with the Oracle HTTP Server does not appear in the Navigator window.

To correct this problem, edit `httpd.conf` to remove any spaces or tabs at the beginning of comment lines. The comment symbol `#` must appear in the first column of the line, or the Oracle HTTP Server will not strip out comment lines correctly.

#### 1.5.8.1.4 Java Exception Occurs When Editing HTTP Server from Enterprise Manager

A Java exception occurs if you try to edit the Oracle HTTP Server from the Enterprise Manager console, due to a logic error in parsing the httpd.conf file.

To correct this problem, edit httpd.conf to remove any spaces or tabs at the beginning of comment lines. The comment symbol # must appear in the first column of the line, or the Oracle HTTP Server will not strip out comment lines correctly.

#### 1.5.8.1.5 Direct Connect Not Supported for Web Servers

The Direct Connect feature of Performance Manager is not supported for web servers. An error occurs if you attempt to use the Direct Connect feature with the web server. There is no workaround.

### 1.5.9 E-Business Integration Solution Area Issues

#### 1.5.9.1 Oracle9i File System

##### 1.5.9.1.1 Configuring Oracle9i File System and Oracle9iAS Email to run on the same machine

The Oracle9i File System e-mail component and the Oracle eMail server both use Sendmail for mail transfer. Oracle9i File System requires Sendmail version 8.9.3 or later and eMail Server requires versions of Sendmail later than 8. Oracle9i File System ships an open source version of Sendmail 8.9.3 for Solaris and other UNIX ports. Windows NT and Windows 2000 installations require purchasing Sendmail version 3.0 or 3.0.2 (respectively) for both e-mail components.

To run the Oracle eMail server and Oracle9i File System on the same machine, you must configure them by following the steps below in the order shown:

1. Use the Oracle9i File System post-installation scripts to set up the Sendmail 8.9.3 executable and generate the `sendmail.cf` file. (For more information, see the postinstallation steps in the Oracle9i File System Installation Guide.)
2. Incorporate the changes required for Oracle eMail server into `sendmail.cf`. (For more information, see Chapter 3, Postinstallation, in the Oracle9iAS Email Installation Guide.)

---

**Note:** If you incorporate the eMail server configuration changes into `sendmail.cf` and then run the scripts, the scripts will overwrite the changes (that is, generate `sendmail.cf` anew).

---

If the IMAP servers provided by Oracle9i File System and Oracle9iAS Email are to be run on the same machine, you must configure them to listen on different ports. (Use the Oracle9i File System configuration utility and the Oracle9iAS Email Administration tool to specify the port for the component.)

For example, you can configure the Oracle9iAS Email to listen on the default port 143, and configure the Oracle9i File System IMAP server to listen on some other port, as required by the installation.

The clients accessing the IMAP servers must have accounts mapped to these specific ports. To access both servers at the same time, you must use clients that allow you to set the IMAP port number. Alternatively, you can run the two IMAP4 servers on two different Oracle9iAS installations.

### 1.5.9.2 Oracle9iAS InterConnect

#### 1.5.9.2.1 Recommended init.ora values

The recommended minimum database init.ora parameter values to run all Interconnect adapters are as follows:

```
db_block_buffers=3200
shared_pool_size=314572800
large_pool_size=61440000
java_pool_size=60971520
```

## 1.6 Examples and Demos

Demos and examples for most Oracle9i Application Server components can be found at `http://<hostname:port>` where *hostname* is the name of your machine and *port* is your Oracle HTTP Server listener port. For more information on this port, refer to the Apache documentation.

In addition, examples and demos of Oracle9*i* Application Server components are provided on your product CD-ROM and installed in the component directories.

## 1.6.1 Demo Limitations

### 1.6.1.0.2 OracleJSP Demos

#### 1.6.1.0.3 OracleJSP Demos Intended to Run on Client Side

The OracleJSP demos included with this distribution are not intended to run on the server in Oracle Servlet Engine (OSE)/JVM. Please use the following instructions (which replace instructions in earlier versions of the demo REAMDE), to install the JSP demos in your Oracle9*i*AS environment:

1. Copy the WEB-INF and demo directories to the document root or application root of the web server. Restart the web server.
2. Make sure all the related .jar files are in your web server's classpath. These include:
  - ojsp.jar, ojsputil.jar, and the JDBC (classes111.zip or classes12.zip)
  - SQLJ libraries (runtime and translator zip files)
  - Oracle XML SQL (xsu111.jar or xsu12.jar) and XML parser (xmlparsrev2.jar) if you are doing SQL, SQLJ or XML operations, which many of the demos do. A few samples also need the jndi.jar.
3. For the JESI demos you will need to set up the Oracle Web Cache server.
4. For the Programmable Web Cache demos, you will need Oracle's Caching Service for Java's cache jar.
5. For EJB and CORBA samples, follow the instructions below:

To run the CallEJB.jsp sample:

1. Deploy the EJB object in Oracle8*i*. On a UNIX system, commands like the following are required:

```
prompt> cd $ORACLE_HOME/javam/demo/examples/ejb/basic/sqljimpl  
prompt> make
```

To run the CallCORBA.jsp sample on OSE:

2. Deploy the CORBA object in Oracle8i. On a UNIX system, commands like the following are required:

```
prompt> cd $ORACLE_HOME/javavm/demo/examples/corba/basic/helloworld  
prompt> make
```

3. Put the resulting jar files in the web server's classpath.
6. For the send mail examples, put mail.jar and activation.jar in the web server's classpath.

---

**Note:** When you view demo source links with Internet Explorer, some of the source files are rendered as html because they contain <html> tags. For these files, such as the CallEJB.jsp and simple Welcome.jsp, check the source using the Source option on the View menu.

---

#### 1.6.1.1 Oracle Business Components for Java Demo Failure

If the Business Components for Java demo does not work, your system may not be set up for it. Click on the link for the Business Components for Java on the HTTP Server home page, and follow the instructions in the Sample Application Setup link.

```
$ORACLE_HOME/Apache/Apache/htdocs/OnlineOrders_html/submit_  
login.jspsession.putValue("CSSURL", "/webapp/cabo/images/cabo_styles.css");  
session.putValue("ImageBase", "/webapp/jsimages");
```

## 1.7 National Language Support (NLS) Issues

### 1.7.0.2 NLS\_LANG Environment Variable

**mod\_plsql** When configuring mod\_plsql, the NLS\_LANG environment variable is configured on a per Web server instance level and not at the DAD level.

Ensure that you have the correct NLS\_LANG setting before starting your Oracle9i Application Server instance.

**Oracle PSP** For Oracle PSP, the NLS\_LANG environment variable must be set before loading PL/SQL Server Pages (PSPs) into the database using the loadpsp command.

**Using the JDBC OCI8 driver with JServ and OracleJSP** If connecting to Oracle via the JDBC OCI8 driver, the appropriate NLS\_LANG setting is required in jserv.properties. For example:

```
wrapper.env=NLS_LANG=AMERICAN_AMERICA.UTF8
```

For information on the NLS\_LANG environment variable, refer to the *Oracle8i National Language Support Guide*.

### 1.7.0.3 NLS Parameters in the initicache.ora File

The Oracle9iAS Database Cache installation creates a cache using the same database character set as the origin database. However, it does not set other National Language Support (NLS) features, such as date format or currency symbols.

If the initialization file (initSID.ora) of your origin database specifies NLS parameters, you must copy those parameters to the initialization file (initicache.ora) of the cache (NLS parameters begin with "NLS\_").

For example, if the initialization file of your origin database contains the following parameters, copy them to initicache.ora:

```
NLS_LANGUAGE = JAPANESE
NLS_CALENDAR = "Japanese Imperial"
NLS_DATE_FORMAT = "E YY-MM-DD"
```

The initicache.ora file is located in the  
\$ORACLE\_HOME/admin/icache/pfile directory.

### 1.7.0.4 NLS Limitations

The following are known NLS bugs in this release:

- Some of the user interface and messages for the Simplified Chinese version of Developer 6i Release 2 will appear in English. There is no workaround.
- In the Reports Availability Calendar feature of Reports Server Security using translated versions of Oracle9iAS Portal 3.0, some of the calendar headings are truncated. You may choose to use the English-language interface instead.
- In the Japanese version of Developer 6i Release 2, the on-line manual *Deploying Applications* will be the same as the manual used for the 6i initial release, instead of the manual for 6i Release 2. If you require the 6i Release 2 version of the manual and it is not part of your printed manual set, please contact your Oracle Support representative.

- In the Traditional Chinese version of Developer 6*i* Release 2 Report Builder, the menu item "File->Generate to file->Delimited", the word "Delimited" should be translated but appears garbled. There is no known workaround.

#### 1.7.0.5 Configuration Assistant Language Limitation

---

| For the language...    | Replace <lang> with ... |
|------------------------|-------------------------|
| Brazilian              | ptb                     |
| French                 | f                       |
| German                 | d                       |
| Iberian Spanish        | e                       |
| Italian                | i                       |
| Japanese               | ja                      |
| Latin American Spanish | esa                     |
| Russian                | ru                      |

---

In this release, Oracle9*i*AS Portal Configuration Assistant is certified for use in English only.