

Oracle9i™ Application Server

Oracle9i Application Server Release Notes

Release 1.0.2.1 for Windows NT/2000

March 8, 2001

Part No. A88728-01

This document summarizes the differences between Oracle9i Application Server Release 1.0.2.1 components and their documented functionality.

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Oracle9i Application Server Release Notes, Release 1.0.2.1 for Windows NT/2000

Part No. A88728-01

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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 Oracle9i Application Server Release 1.0.2.1 for Windows NT components and their documented functionality.

1.2 Note About Product Naming

Product name changes in this release are:

Old Name	New Name
Oracle8i JVM	Oracle Enterprise Java Engine (EJE)
Oracle Forms Service	Oracle9iAS 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	Oracle9iAS Portal
Oracle Portal-to-Go	Oracle9iAS Wireless

Old Name	New Name
Oracle Database Cache	Oracle9iAS Database Cache
Oracle Web Cache	Oracle9iAS Web Cache
Oracle Reports Service	Oracle9iAS Reports Services
Oracle Discoverer	Oracle9iAS Discoverer
Oracle Transparent Gateways	Oracle Gateways
Oracle eMail Server	Oracle9iAS Email
Oracle Unified Messaging	Oracle9iAS Unified Messaging
Oracle Internet File System	Oracle9i File System

Note that some of the documentation and configuration screens in this release may still refer to these components by their old names.

1.3 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 Note About Oracle HTTP Server Status

The Oracle HTTP Server with SSL is now production status. This status applies to all features except for those noted in this document. In particular, production status does not apply to the problem described in [Section 1.8.37, "Passphrase-protected Private Key Causes Apache Hang on Startup"](#).

1.5 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.

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

1.7 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 Oracle9i Application Server components are provided on your product CD-ROM and installed in the component directories.

1.7.1 Demo Limitations

OracleJSP Demos: SAMPLE3.JSP When running the OracleJSP demo SAMPLE3.JSP (ORACLE JSP DEMO->SQLACCESS->SQLTAGS->SAMPLE3.JSP), the resulting page may have no output. This demo is working correctly, but the browser can not display XML output directly. To see the XML output, choose View->PageSource.

OracleJSP Demos: XML QUERY To ensure that the demo ORACLE JSP DEMO->XML->XML QUERY works correctly, you must first establish a database connection.

1.8 Known Restrictions and Limitations

Before using Oracle9i 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.

1.8.1 Support for Third Party Components in Oracle9i Application Server

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 1.3.12, 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:

mod_ssl	SSL support.
mod_perl	Support for writing Apache modules in Perl.
mod_jserv	Communication with servlet engine.
mod_plsql	PL/SQL support.
mod_ose	Delegates URLs to stateful Java and PL/SQL servlets in Oracle Servlet Engine (OSE).
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-httpd-cgi.
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.

<code>mod_headers</code>	Add arbitrary HTTP headers to resources; headers can be merged, replaced or removed.
<code>mod_include</code>	Server-parsed documents; provides for server-parsed HTML documents.
<code>mod_log_config</code>	User-configurable logging replacement for <code>mod_log_common</code> ; provides for logging requests made to the server, using the Common Log Format or a user-specified format.
<code>mod_mime</code>	Determining document types using file extensions.
<code>mod_negotiation</code>	Content negotiation.
<code>libproxy (mod_proxy)</code>	Caching proxy abilities; provides for an HTTP 1.0 caching proxy server.
<code>mod_rewrite</code>	Powerful URL-to-filename mapping using regular expressions; provides a rule-based rewriting engine to rewrite requested URLs on the fly.
<code>mod_setenvif</code>	Set environment variables based on client information; provides for the ability to set environment variables based upon attributes of the request.
<code>mod_so</code>	Support for loading modules at runtime; provides for loading of executable code and modules into the server at start-up or restart time.
<code>mod_speling</code>	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.
<code>mod_status</code>	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.
<code>mod_userdir</code>	User home directories; provides for user-specific directories.
<code>mod_usertrack</code>	User tracking using cookies.

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.

Support for Oracle9i Application Server Plug-ins: Oracle has developed several plug-ins components that allow portions of 9i Application Server to be used with web listeners provided by third parties. Except as provided herein, Oracle will provide standard product support for these plug-in components, as such support is further defined in the Oracle technical support policies.

Support for these plug-in components does not imply that any other Oracle-supplied applications, tools, or components will be supported in an environment using these third-party listeners: consult product documentation for details of product-specific support for third-party listeners. Oracle will only provide technical support for a configuration that has been certified by Oracle.

Oracle provides support only for the installation, configuration, and use of the Oracle-provided plug-in components, and does not provide general support on the installation, configuration, or use of any third party listener.

If a customer reports an issue with a plug-in component, Oracle will work on that issue using the normal support processes and escalation procedures. If Oracle determines that the problem lies in the third-party listener, it will be the customer's responsibility to obtain support from the listener vendor.

1.8.2 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.

1.8.3 Configuring Oracle iFS and Oracle9iAS Email to run on the same machine

The Oracle iFS e-mail component and the Oracle eMail server both use Sendmail for mail transfer. iFS requires Sendmail version 8.9.3 or later and eMail Server requires versions of Sendmail later than 8. iFS 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 Oracle iFS on the same machine, you must configure them by following the steps below in the order shown:

1. Use the Oracle iFS 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 Oracle iFS 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 Oracle iFS and Oracle9iAS Email are to be run on the same machine, you must configure them to listen on different ports. (Use the Oracle iFS 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 Oracle iFS 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 Internet Application Server installations.

1.8.4 Long Startup Time for Internet File System

The Internet File System may take up to 10 minutes to start. The start is delayed further if you use other applications while Internet File System is starting.

1.8.5 Standard Edition Migration Installation Hangs at NET8 Configuration

Oracle9i Application Server Standard Edition Migration installation may hang at Net8 configuration. As a workaround, stop Net8 Configuration by clicking the **Stop** in the OUI. The installation will proceed, and following other configurations, you can 'retry' Net8 configuration to complete the configuration successfully.

1.8.6 De-Installation/Cleanup Procedure

After deinstalling Oracle9i Application Server on Windows NT or Windows 2000, perform the following steps to clean up your system of any Oracle remnants:

1. Delete your ORACLE_HOME.
2. Delete all Oracle services using regedit. Delete the following entries:
 - All entries beginning with Oracle in HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001.
 - All entries beginning with Oracle in HKEY_LOCAL_MACHINE\SYSTEM\ControlSet003.
 - All entries beginning with Oracle in HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet
3. Remove all PATH entries relating to Oracle9i Application Server. One way to do this is on the Environment tab page of the System dialog box (from the Start menu, choose Settings->Control Panel. In the Control Panel dialog box, double-click System).

1.8.7 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.

1.8.8 Help Screen Does Not Close in OUI

If you are in the 'Inventory' screen (listing of all installed products) and click **Help**, you cannot close the help screen until the Inventory screen is closed.

1.8.9 Path Modification in FormsServlet.InitArgs Required

The Oracle9i Application Server Enterprise Edition installation creates the file FormsServlet.InitArgs in ORACLE_HOME (Release 8.0.6). The file specifies fully qualified paths for BaseHTMLJinitiator, BaseHTMLie and BASEHTML, using the

standard Windows NT backslash character ("\""). Because Apache can not interpret the backslash character, you need to edit formservlet.initargs and replace all path backslash characters with forward slashes ("/").

The full path to this file is

```
%ORACLE_HOME%\Apache\jserv\servlets\oracle\forms\servlet\FormsServlet.InitArgs
```

1.8.10 Building mod_perl DBI/DBD-Oracle and Apache::DBI

To build, install, and test mod_Perl DBI/DBD-Oracle and Apache::DBI for Windows NT, follow these steps:

1. Verify that the following software is available in your environment:

Windows NT 4.0 SP3

Visual Studio version 5.0

2. Install Oracle Internet Application Server Release 1.0.1 for Windows NT from your product CD. This version has mod_perl 1.22 built in. However, this install does not include the following modules:

Apache::DBI Perl DBI Perl DBD-Oracle

3. Verify that your perl path is set correctly:

- a. Click Start->Settings->Control Panel.

- b. In the Control Panel, double-click System.

- c. In the System dialog box, click the Environment tab.

- d. On the Environment page, scroll down the System Variables list and select Path.

- e. In the Value field at the bottom of the page, add the Apache Perl path to the system path. For example, add the following to the beginning of system path:

```
%ORACLE_HOME%\Apache\Perl\5.00503\bin\MSWin32-x86
```

- f. f.Click Set and OK to close the System dialog box.

4. Build, test, and install DBI version 1.14:

- a. Download DBI-1_14.tar.gz into %ORACLE_HOME%\Apache (for example, into a directory named DBI-1.14), and unpack it.

- b. Go to the DBI-1.14 directory and run 'perl Makefile.PL'.

- c. Follow the README instructions carefully.
 - d. Run 'nmake'.
 - e. Run 'nmake test' and verify the test results.
 - f. Run 'nmake install'.
5. Build, test, and install DBD-Oracle version 1.06. The DBD-Oracle module expects enough Oracle software to be available to build the driver successfully:
 - a. Download DBD-Oracle-1_06_tar.gz and unpack it into a directory (for example DBD-Oracle1.06).
 - b. Go to the DBD-Oracle1.06 directory and modify Makefile.PL to reflect the correct OCIDIR. In particular, set SOCIDIR = "oci"; if it was not set originally.
 - c. Set the ORACLE_HOME environment variable to point to a valid Oracle Internet Application Server Enterprise Edition install or an Oracle 8.1.7 database install.
 - d. Set the ORACLE_SID environment variable to point to a valid Oracle SID.
 - e. Follow the README instructions carefully.
 - f. Run 'perl Makefile.PL'.
 - g. Run 'nmake', 'nmake test', and 'nmake install'.
6. Build, test, and install Apache::DBI version 0.87:
 - a. Download ApacheDBI-0_87_tar.tar into %ORACLE_HOME%\Apache (for example, into a directory named ApacheDBI-0.87), and unpack it.
 - b. Follow the README instructions carefully.
 - c. Run 'perl Makefile.PL'.
 - d. Run 'nmake', 'nmake test', and 'nmake install'.
7. Add the following line to your httpd.conf file:

```
PerlRequire <absolute path of Apache::DBI's startup.pl script>
```
8. Modify the startup.pl connect call to:

```
Apache::DBI->connect_on_init('dbi:Oracle:', "scott/tiger", '');
```
9. Restart your Oracle HTTP Server:

- a. From the Start menu, choose Settings->Control Panel. In the Control Panel dialog box, double-click Services.
 - b. In the Services dialog box, click Oracle<ORACLE_HOME>HTTPServer.
 - c. Click Stop, then click Start.
10. Test with a sample Perl script from a browser, shown below:

```
##### Perl script start #####
#!/perl
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 #####
```

To build, install, and test mod_Perl DBI/DBD-Oracle and Apache::DBI for Windows NT, follow these steps:

1. Verify that the following software is available in your environment:
 - Windows NT 4.0 SP3
 - Visual Studio version 5.0
2. Install Oracle Internet Application Server Release 1.0.1 for Windows NT from your product CD. This version has mod_perl 1.22 built in. However, this install does not include the following modules:
 - Apache::DBI
 - Perl DBI
 - Perl DBD-Oracle
3. Verify that your perl path is set correctly:
 - a. Click Start->Settings->Control Panel.
 - b. In the Control Panel, double-click System.
 - c. In the System dialog box, click the Environment tab.

- d. On the Environment page, scroll down the System Variables list and select Path.
 - e. In the Value field at the bottom of the page, add the Apache Perl path to the system path. For example, add the following to the beginning of system path:


```
%ORACLE_HOME%\Apache\Perl\5.00503\bin\MSWin32-x86
```
 - f. Click Set and OK to close the System dialog box.
4. Modify config.pm in the directory %ORACLE_HOME%\Apache\Perl\5.00503\lib\MSWin32-x86 to pick up the correct version of Perl:
 - a. Replace


```
- "c:\perl\"
```

with

```
"%ORACLE_HOME%\Apache\Perl\"
```

everywhere applicable. This includes entries such as prefix, prefixexp, etc.
 - b. Replace


```
libpth="\lib"
```

with

```
libpth="%ORACLE_HOME%\Apache\Perl\5.00503\lib
%ORACLE_HOME%\Apache\Perl\site\5.00503\lib ..."
```
5. Build, test, and install DBI version 1.13:
 - a. Download DBI-1_13_tar.gz into %ORACLE_HOME%\Apache (for example, into a directory named DBI-1.13), and unpack it.
 - b. Go to the DBI-1.13 directory and run 'perl Makefile.PL'.
 - c. Follow the README instructions carefully.
 - d. Run 'nmake'.
 - e. Run 'nmake test' and verify the test results.
 - f. Run 'nmake install' and make sure that DBI is installed in the %ORACLE_HOME%\Apache\Perl\ directory.

6. Build, test, and install DBD-Oracle version 1.03. The DBD-Oracle module expects enough Oracle software to be available to build the driver successfully:
 - a. Download DBD-Oracle-1_03_tar.gz into %ORACLE_HOME%\Apache (for example, into a directory named DBD-Oracle1.03), and unpack it.
 - b. Go to the DBD-Oracle1.03 directory and modify Makefile.PL to reflect the correct OCIDIR. In particular, set \$OCIDIR = "oci"; if it was not set originally.
 - c. Set the ORACLE_HOME environment variable to point to a valid Oracle Internet Application Server Enterprise Edition install or an Oracle 8.1.7 database install.
 - d. Set the ORACLE_SID environment variable to point to a valid Oracle SID.
 - e. Follow the README instructions carefully.
 - f. Run 'perl Makefile.PL'.
 - g. Run 'nmake', 'nmake test', and 'nmake install'.
7. Build, test, and install Apache::DBI version 0.87:
 - a. Download ApacheDBI-0_87_tar.tar into %ORACLE_HOME%\Apache (for example, into a directory named ApacheDBI-0.87), and unpack it.
 - b. Follow the README instructions carefully.
 - c. Run 'perl Makefile.PL'.
 - d. Run 'nmake', 'nmake test', and 'nmake install'.
8. Add the following line to your httpd.conf file:

```
PerlRequire <absolute path of Apache::DBI's startup.pl script>
```
9. Modify the startup.pl connect call to:

```
Apache::DBI->connect_on_init('dbi:Oracle:', "scott/tiger", '');
```
10. Restart your Oracle HTTP Server:
 - a. From the Start menu, choose Settings->Control Panel. In the Control Panel dialog box, double-click Services.
 - b. In the Services dialog box, click Oracle<ORACLE_HOME>HTTPServer.
 - c. Click Stop, then click Start.
11. Test with a sample Perl script from a browser, shown below:

```

##### Perl script start #####

#!/perl
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 #####

```

1.8.11 3. 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.

1.8.12 Problems with mod_plsql Under Moderate Load

On NT, `mod_plsql` crashes under moderate load. This issue is explained in bug#1432961 and requires backports for bug#1179779 and bug#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 that described here.

1.8.13 iCache 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.

1.8.14 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;

```

1.8.15 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.

1.8.16 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).

1.8.17 Oracle Demo Certificates Replacement

Oracle Demo certificates (that is, dummy certificates) are included with the 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.

1.8.18 Oracle9iAS Database Cache Installation Errors

If the listener for the origin database is not properly configured, you may get the following errors when attempting 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.

1.8.19 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).

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.

1.8.20 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_ICACHE 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_ICACHE=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
```

1.8.21 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.

1.8.22 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.

1.8.23 Fully Qualified Domain Requirement in tnsnames.ora

If sqlnet.ora has default_domain defined, for example:

```
NAMES.DEFAULT_DOMAIN = us.oracle.com
```

then your Oracle9iAS Portal DAD connect string needs a domain.

For example:

from %ORACLE_HOME%\Apache\modplsql\cfg\wdbsvr.app:

```
connect_string = portal30.world
```

where `portal30.world` is a defined alias in the `tnsnames.ora` file. If the connect string does not have a domain extension such as:

```
connect_string = portal30
```

then your `tnsnames.ora` file must have the `DEFAULT_DOMAIN` extension in the alias as: `portal30.us.oracle.com`.

1.8.24 Oracle Business Components for Java Demo Failure

You may receive the following error when attempting to run the Oracle Business Components for Java demo in Oracle9i Application Server Standard Edition:

```
[error] [client 206.223.27.37] Premature end of script headers: (null)
```

To run the demo successfully, perform the following steps:

1. Open the file
%ORACLE_HOME%\Apache\Apache\htdocs\OnlineOrders_html\submit_login.jsp
2. Move the following two lines:

```
session.putValue("CSSURL", "\webapp\cabo\images\cabo_styles.css");  
session.putValue("ImageBase", "\webapp\jsimages");
```

to after the closing brace following this line:

```
pool.setUserData(info);  
}
```

1.8.25 Oracle9iAS Portal 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.

1.8.26 Oracle9iAS Portal 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.

1.8.27 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 Oracle9i Application Server.

1.8.28 Oracle9iAS Reports Service Security Framework

Oracle9iAS Reports Service has integrated with Oracle9iAS Portal to provide an enterprise security and deployment framework. For more information on this

integration, refer to *Publishing Reports to the Web with Oracle Internet Application Server* in the Oracle9i Application Server Documentation Library.

1.8.29 Oracle9iAS Reports Service Error

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> set tns_admin=<IAS_HOME>\6iserver\net80\admin
prompt> rwmts60 -listen name=Rep60_<HOSTNAME>
```

replacing <IAS_HOME> with the directory where you installed Oracle9i Application Server and <HOSTNAME> with your system name. This will force Oracle9iAS Reports Service to use the Net8 tnsnames.ora file at <IAS_HOME>\6iserver\net80\admin\tnsnames.ora.

6.

1.8.30 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.

1.8.31 Oracle 9iAS Forms/Enterprise Manager Limitations

A patch will be available on March 26, 2001 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

1.8.32 JInitiator 1.1.7.31 HTTPS Limitations

This release of Oracle9i Application Server ships with JInitiator 1.1.7.31. This JInitiator release does not work using HTTPS communication for Oracle9iAS Forms Services because of a missing DLL. To enable HTTPS 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.

1.8.33 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/HTTPS 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 HTTPS restrictions, refer to the *Client Platform Statement of Direction* document at:

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

1.8.34 openssl Command -config Option Requirement

When using the openssl command to create a certificate request, the command must include the -config option to specify the location of the configuration file openssl.cnf (which by default is in %ORACLE_HOME%\Apache\open_ssl\bin. Otherwise, the command will fail.

For example:

```
prompt> openssl req -config %ORACLE_HOME%\Apache\open_ssl\bin -new -x509 -days
365 -key ca.key -out ca.crt
```

Note: On Windows NT, the OPENSSL_CONF environmental variable can not be used to specify the location of the configuration file.

1.8.35 No Support for CA Facilities of OpenSSL

The Certifying Authorities (CA) facilities of OpenSSL are not supported and should not be used. Oracle9i 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.

1.8.36 mod_ssl Limitations

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

1.8.37 Passphrase-protected Private Key Causes Apache Hang on Startup

When a certificate with a passphrase-protected private key is used, Apache hangs during startup. Workarounds to this problem include:

- Strip the passphrase from the private key, using the command:

```
openssl rsa -in <protected private key> -out <unprotected private key>
```

WARNING: The private key to your certificate is now vulnerable to anyone who has access to the NT file system. You are responsible for ensuring the physical security of the filesystem, as well as possible security penetrations from external access through the web server.

- Use an external program or script to supply the passphrase, using the following directive in the `httpd.conf` file:

```
SSLPassPhraseDialog <your script or program>
```

WARNING: Although the private key is encrypted, it is possible that the private key can be compromised by anyone who can access the NT file system. Even if your script obfuscates the passphrase, an attacker can easily determine what script to use by examining the Apache configuration file. You are responsible for ensuring the physical security of the NT filesystem, as well as possible security penetrations from external access through the web server.

- Start Apache from the command line (not as a service) and enter the passphrase twice.

Note: Although secure, the timing of entering the passphrase twice is sometimes problematic, since there is no prompt for the second passphrase entry. In addition, if the child process servicing HTTP requests terminates for any reason, the parent process will not be able to automatically supply the passphrase to restart the child.

1.8.38 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/httpdctl 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:
 - a. From the Start menu, choose Settings->Control Panel. In the Control Panel dialog box, double-click Services.
 - b. In the Services dialog box, click Oracle<*ORACLE_HOME*>HTTPServer.
 - c. Click Stop, then click Start.

1.8.39 Errors Starting Apache with "APCJECTL -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#` in the `NameVirtualHost` directive.

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

1.8.40 Oracle9iAS Web Cache 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 listens on port 80 by default.

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 port 80.

1.8.41 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.

1.8.42 National Language Support (NLS) Considerations

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*.

1.8.43 NLS Parameters in the initcache.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 (initcache.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 `initcache.ora`:

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

The `initcache.ora` file is located in the `%ORACLE_HOME%\admin\icache\pfile` directory.

1.8.44 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 online 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 6i 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.

1.8.45 NLS Translations in Oracle Forms and Oracle Reports

Beginning in this release, you can install all available Oracle Forms and Oracle Reports language translations at one time. However, some features of Oracle Forms and Oracle Reports do not allow this. For these features, only one language can be installed at a time. The features are:

- Oracle Terminal Help (Japanese translation only).
- Documentation Table of Contents and Index (Japanese Translation only).
- Reports/Express Integration (available in German, Iberian Spanish, Latin American Spanish, French, Italian, Japanese, Brazilian, and Russian).
- OLAP Connection Editor (Japanese translation only).

For these features, the correct translated files will be copied to your machine during installation. You will then have to manually rename them to enable the translation of choice. Please note that you only need to follow these instructions if you install *all* the translations at once.

Important Note: Before you begin, be sure to make a backup copy of the existing file before overwriting a file.

Oracle Terminal Help

To enable the Japanese translation:

1. Change to the directory %ORACLE_HOME%\tools\common60.
2. Make a backup copy of the file ot.hlp.
3. Copy the file otja.hlp to ot.hlp.

The help system for Oracle Terminal will now appear in Japanese.

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These steps may or may not be required. To check, click the Help menu in Form Builder or Report Builder. If the interface appears in English, and you wish to use Japanese, perform the following steps:

1. Change to the directory %ORAINFONAV_DOCPATH% which is usually %ORACLE_HOME%\OIN.
2. Make a backup copy of the files 1aod60.toc, 1aod60.idx, 1aor60.toc, and 1aor60.idx, if they exist.
3. To change the help system for Oracle Forms, copy 1aod60ja.toc to 1aod60.toc, and 1aod60ja.idx to 1aod60.idx.
4. To change the help system for Oracle Reports, copy 1aor60ja.toc to 1aor60.toc and 1aor60ja.idx to 1aor60.idx.

The help system top level will now appear in Japanese.

Reports/Express Integration

To change the Reports/Express Integration interface to your desired language:

1. Change to the directory %ORACLE_HOME%\bin.
2. Make a backup copy of the files xru60.dll and xpeh.dll.
3. Note which language you wish to install.

4. Copy the file xru60<lang>.dll to xru60.dll. The values of <lang> are listed below.
 5. Copy the file xpeh<lang>.dll to xpeh.dll. The values of <lang> are listed below.
- The Reports/Express integration interface will now appear in the language you chose:

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

For example, to use Japanese, you would copy xru60ja.dll to xru60.dll, then copy xpehja.dll to xpeh.dll.

OLAP Connection Editor

To change the OLAP Connection Editor program's user interface to Japanese, perform the following steps:

1. Change to the directory %GSINSTALLDIR% (usually %ORACLE_HOME%\olap\ece620).
2. Make backup copies of the files xconedit.exe, xconedit.hlp, and xconedit.cnt.
3. Copy xconeditja.exe to xconedit.exe, xconeditja.hlp to xconedit.hlp, and xconeditja.cnt to xconedit.cnt.

The user interface for the XRQ connection editor will now be in Japanese.

1.8.46 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*.

1.8.47 Oracle9iAS Portal Configuration Assistant Language Limitation

In this release, Oracle9iAS Portal Configuration Assistant is certified for use in English only.

1.8.48 Oracle9iAS Wireless: Silent Installation Not Supported

Silent installation for Oracle9iAS Wireless is not supported; it requires entry of information specific to Wireless and manual editing of configuration files.

1.8.49 Oracle9iAS Wireless: JDBC Driver

This release of Wireless Edition only supports the classes12.zip JDBC driver. classes11.zip is no longer supported.

1.8.50 Oracle9iAS Wireless: 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>

1.8.51 Oracle9iAS Wireless: 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>

1.8.52 Oracle9iAS Wireless: 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.

1.8.53 Oracle9iAS Wireless: 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.

1.8.54 Oracle9iAS Wireless: 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.

1.8.55 Oracle9iAS Wireless: 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.

1.8.56 Oracle9iAS Wireless: 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
```

1.8.57 Oracle9iAS Wireless: 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.

1.8.58 Oracle9iAS Wireless: Multibyte Character Set Support for the Web Integration Server

To support multibyte character sets for the Web Integration Server in Oracle9iAS Wireless, apply the following configuration changes to the Web Integration server start up script. (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 application server:

1. Replace the `font.properties` file of the JVM with `font.properties.<locale>`.
2. The JVM path for the server is:

```
%ORACLE_HOME%\Apache\jdk\jre\lib
```

3. Edit the `server.bat` file.

The path for the server batch file is:

```
%ORACLE_HOME%\panama\WebIntegration\Server\bin\server.bat
```

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

```
SET SCMD="%JDKDIR%\bin\java" -ms64M -mx64M -classpath
%CLASSPATH%
```

- b. Add the following line:

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

as a Java command line option, such as:

```
SET SCMD="%JDKDIR%\bin\java" -Dfile.encoding=<encoding>
-ms64M -mx64M -classpath %CLASSPATH%
```

For example:

```
SET SCMD="%JDKDIR%\bin\java" -Dfile.encoding=SJIS -ms64M
-mx64M -classpath %CLASSPATH%
```

1.8.59 Oracle9iAS Wireless: Multibyte Character Set Support for the Web Integration Developer

To support multibyte character sets for the Web Integration Developer 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
```

5. Extract the file's content to:

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

6. 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
```

1.8.60 Oracle9iAS Wireless Client: Transformer Testing Tool

On Windows NT, with Service Pack 6, the following error may occur when running the Oracle9iAS Wireless Transformer Testing Tool:

```
java.net.SocketException: JVM_SetSockOpt() TCP_NODELAY (code=10055)
```

To resolve this issue, apply Service Pack 6a available from the Microsoft web site. If you still experience this issue with Service Pack 6a installed, try reinstalling Service Pack 6a. If this still does not resolve the issue, add the current Windows NT user to the "Administrators" group.

1.8.61 Oracle9iAS Wireless: Oracle Data Server Support

Oracle9iAS Wireless only supports Oracle 8.1.6 and above.

1.8.62 Oracle9iAS Wireless 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
```

1.8.63 Network Adapter Connection Error Generated When Accessing Oracle Business Components for Java Sample Application

After installing Oracle9i Application Server, you may encounter the following error when trying to access the online orders sample application for the first time:

```
Application Error
Return
Error Message: JBO-26061: Error while opening JDBC connection.
Error Message: Io exception: The Network Adapter could not establish the
connection.
```

Restart the system to resolve this issue.

1.8.64 Apache Listener Stops Responding After Prolonged Use of mod_plsql

Intermittently, the Apache listener stops responding within two to three days after prolonged use of mod_plsql.

To resolve this issue, restart the listener.

1.8.65 "Communication Error or Internal ORB Error" When Starting Oracle9iAS Discoverer 3i Viewer

After installing Oracle9i Application Server, you may receive the following error message when you start Oracle9iAS Discoverer Viewer:

```
"Communication error or Internal ORB error"
```

To resolve this issue and start Oracle9iAS Discoverer 3i Viewer, perform these steps:

1. Rename the `vbjruntime.dll` file in `D:\Oracle\iSuites\bin` to `vruntime.dll`.
2. Copy the `vbjruntime.dll` file from `D:\Oracle\806\VBROKER\BIN` into `D:\Oracle\iSuites\bin`.
3. Restart the Oracle9iAS Discoverer service.

1.8.66 Oracle Database Cache Stops Responding When Caching a Table That Contains a Context Index

Using `dbms_icache.add_table` 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.

1.8.67 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
```

1.8.68 Deploying Enterprise JavaBeans to Oracle9i Application Server

The following files contain information on deploying Enterprise JavaBeans (EJBs) to Oracle9iAS Database Cache:

- `<cd-rom>:\doc\relnotes\ejbdply.pdf`
- `<cd-rom>:\doc\relnotes\ejbdply.htm`

where `<cd-rom>` is the drive with Oracle9i Application Server Disk 1.

1.8.69 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 OPCA
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"`

1.8.70 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"

At the time of publication a patch number had not been assigned. You can locate the patches by searching for Oracle Discoverer patches for release 4i or 4.1.

1.8.71 Running databasesetup.bat

In order to run `databasesetup.bat`, you must modify the jdbc connection string in `ImageLoader\ImageLoader.java` must be modified to reflect the setup of the machine. For more information, see `bc4j.html`.

1.8.72 spatial.properties File Path Correction

The `spatial.properties` file, located at

```
%ORACLE_HOME%\panama\server\classes\oracle\panama\spatial
```

contains incorrect directory slashes. The parser interprets back slashes as forward slashes, so after installation, change the path in this file to:

```
C:/oracle/iashome/panama/server/classes/...
```


1.8.73 spatial.properties file Configuration Location

If 9iAS Wireless Edition is installed at C:\ORANT, then the `spatial.properties` file is installed at the following locations:

```
C:\ORANT\panama\ServiceDesigner\classes\oracle\panama\spatial
```

and

```
C:\ORANT\panama\server\classes\oracle\panama\spatial
```

The `spatial.properties` file has pointers to the locations of the XML files for Geocoders, Routers, YP, Mapping and Positioning service providers and their login etc.

Currently, the information for Geocoders is shown as:

```
C:\ORANT\panama\ServiceDesigner\classes\oracle\panama\spatial\geocoder\
Geocoders.xml
```

and

```
C:\ORANT\panama\server\classes\oracle\panama\spatial\geocoder\
Geocoders.xml
```

with “/”, respectively. This also applies to other Location features such as Routers, YP, Mapping and Positioning.

Instead, following the Win NT method of conveying directory location, it should be changed to:

```
C:\ORANT\panama\ServiceDesigner\classes\oracle\panama\spatial\
geocoder\Geocoders.xml
```

and

```
C:\ORANT\panama\server\classes\oracle\panama\spatial\geocoder\
Geocoders.xml
```

with a “\” in the path. This also applies to other Location features like Routers, YP, Mapping and Positioning.

1.8.74 Long Pathname in TEMP environment variable Causes Installation Error

The recommended value for the TEMP environment variable is

```
<system drive>:/TEMP. If longer pathnames are used, installation may stop
```

with an error message that tells you to ensure that the drive is writable and there is sufficient disk space.

1.8.75 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.

1.8.76 Error When Starting Oracle HTTP Server

The following error may occur when you start the HTTP Server after de-installation and re-installation of iAS 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.

1.8.77 Oracle Developer 60 Folder Not Accessible Error

The following error occurs during installation of Oracle9iAS Enterprise Edition:

```
C:\WINNT\Profiles\All Users\Start Menu\Programs\Oracle Developer 60 is not  
accessible. This folder was moved or removed.
```

This is a known error that has no effect on the successful installation or functionality of any Oracle 9iAS component. It originates in the installation of an Oracle Forms and Oracle Reports patch, which removes the Start menu group

created when Forms and Reports is initially installed. Windows NT generates an error because the group is removed while its window is open.

1.8.78 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.

1.8.79 JServ Availability on Windows 2000

If your `mod_jserv.log` file contains errors such as:

```
(EMERGENCY) ajp12: cannot connect to host <ip address:port>  
(EMERGENCY) ajp12: connection fail
```

Add the following to your `jserv.conf` file:

```
ApJServRetryAttempts 5
```

1.8.80 Enhancing Forms and Reports Scalability

For instructions on rebasing Forms and Reports DLLs, see the README file located in the `/Extras/Forms_Reports` directory.

1.8.81 Internet Developer Suite Database Port Conflict

You must manually change the *iDS* database listener ports to listen on ports other than 1521 and 2841.

