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Oracle9i Patch Set Notes Release 2 (9.2.0.7) Patch Set 6 for Solaris Operating System (SPARC 64-bit)

Oracle9i

Patch Set Notes

Release 2 (9.2.0.7) Patch Set 6 for Solaris Operating System (SPARC 64-bit)

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These patch set notes accompany the Oracle9i release 2 (9.2.0.7) patch set.

This document contains the following sections:

- [Patch Set Overview](#)
- [Oracle Universal Installer Version Requirements](#)
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1 Patch Set Overview

Patch sets are a mechanism for delivering fully tested and integrated product fixes. Patch sets

provide bug fixes only; they do not include new functionality and they do not require certification on the target system.

Patch sets include all of the libraries that have been rebuilt to implement the bug fixes in the set. All of the fixes in the patch set have been tested and are certified to work with each other. Because patch sets include only low impact fixes, you are not required to certify applications or tools against the server unless directed to by the operating system vendor.

Patch sets are cumulative. Patch set release 9.2.0.7 includes all fixes in patch sets 9.2.0.7 and earlier as well as new fixes for patch set 9.2.0.7. This means that unless the patch set documentation indicates otherwise, you can apply this patch set to any earlier release 9.2 installation. You do not have to install intermediate patch sets.

Patch sets contain generic fixes that apply to all platforms. Patch sets may also include additional platform-specific patches.

Note:

The 32-bit version of the patch set must be installed only on the 32-bit version of the database software, regardless of whether the operating system is 32-bit or 64-bit. The 64-bit version of the patch set must be installed only on the 64-bit version of the database software that runs on the 64-bit operating system.

For a list of products included in this patch set, see the "[Patch Set Components](#)" section.

2 Oracle Universal Installer Version Requirements

This patch set includes Oracle Universal Installer release 10.1.0.4. You must use this Oracle Universal Installer to install this patch set and not the Installer from the 9.2.0.x maintenance release media or Oracle home.

This is not a complete software distribution. You must install it in an existing Oracle9i release 2 (9.2.0.x.x) installation. Users applying this patch set **must** use Oracle Universal Installer release 10.1.0.4 (provided as part of this patch set) or later to ensure that their Oracle home can be patched in the future. Oracle Universal Installer release 10.1.0.4 is also installed when you install this patch set.

3 Patch Set Documentation

There are two documents related to this release of the Oracle9i release 2 patch set:

- *Oracle9i Patch Set Notes, Release 2 (9.2.0.7) Patch Set 6 for Solaris Operating System (SPARC 64-bit)* (this document)

This document provides:

- System requirements and information about how to install or reinstall the patch set
- A list of all bugs fixed to date that are specific to Oracle9i release 2 for Solaris Operating System (SPARC 64-bit)

- A list of known issues relating to Oracle9i release 2 for Solaris Operating System (SPARC 64-bit)
- *Oracle9i List of Bugs Fixed, Release 2 (9.2.0.7) Patch Set 6*

The *List of Bugs Fixed* is a list of all generic bugs related to Oracle9i release 2 that have been fixed in this release.

Both of these documents are included with the patch set. The *Oracle9i List of Bugs Fixed* is also available on OracleMetalink, from document 189908.1, *ALERT: Oracle9i Release 2 (9.2) Support Status and Alerts* at:

<http://metalink.oracle.com>

To locate document 189908.1:

1. Click **Advanced** at the top of the OracleMetalink page.
2. Enter 189908.1 in the **Document ID** field, then click **Submit**.

4 System Requirements

The following are the system requirements for this patch set:

- Operating System
 - Solaris 8, Solaris 9, or Solaris 10
- Oracle9i
 - Oracle9i release 2 (9.2.0.1.0) or later

5 Review Changes in Oracle Text Filtering Technology

Beginning with patch set release 9.2.0.7, INSO software is no longer shipped with Oracle Text. It is replaced with Verity KeyView Export from Verity, Inc. There are a number of differences between the old and the new filters. If you intend to use Oracle Text, review document 296405.1 on the OracleMetalink Web site:

<http://metalink.oracle.com>

To locate document 296405.1:

1. Click **Advanced** at the top of the OracleMetalink page.
2. Enter 296405.1 in the **Document ID** field, then click **Submit**.

6 Preinstallation Tasks

Complete the following preinstallation tasks before installing the patch set:

- [Review Known Preinstallation Issues](#)
- [Preinstallation Considerations for Oracle Real Application Clusters](#)
- [Identify the Oracle9i Installation](#)
- [Check Postrelease Updates](#)
- [Download and Extract the Installation Software](#)
- [Set the ORACLE_HOME and ORACLE_SID Environment Variables](#)
- [Shut Down Oracle Databases](#)
- [Stop All Processes](#)
- [Back Up the System](#)

6.1 Review Known Preinstallation Issues

Review the information in the following sections. If any of the issues apply to your Oracle installation, follow the instructions before installing the patch set.

- [Database Upgrade for Oracle E-Business Suite](#)
- [Upgrade and SYS Schema](#)
- [Patch Set Application with Physical or Logical Standby Databases in Place](#)
- [Upgrading Preconfigured Standard Edition Databases](#)
- [Oracle Streams](#)
- [Oracle Data Guard](#)
- [Oracle Advanced Queuing](#)
- [Event 10499: NUMBER Datatypes](#)
- [Oracle XDK](#)
- [XML DB](#)
- [PL/SQL Cursor Caching](#)

6.1.1 Database Upgrade for Oracle E-Business Suite

If you are an Oracle E-Business Suite customer and you want to upgrade your Oracle E-Business Suite release 11i database server to this patch set, then you must check the latest certification status and Interoperability Notes available on the Oracle *MetaLink* Web site at:

<http://metalink.oracle.com>

All other customers wanting to upgrade their databases directly to this patch set should read *Upgrading Directly to a 9.2.0 Patch Set* available on *OracleMetalink* from document 214887.1.

6.1.2 Upgrade and SYS Schema

This is a generic issue applicable to the upgrade mode, for example, ALTER DATABASE OPEN MIGRATE. During an upgrade from release 9.2.0.1 or later, the `catpatch.sql` script can take a long time if there are statistics for the SYS schema. Delete the statistics on all of the objects in the SYS schema, and then recollect the statistics after normal database open, if necessary.

To drop and re-create the statistics, enter the following commands in SQL*Plus:

```
SQL> EXECUTE DBMS_STATS.DELETE_SCHEMA_STATS('SYS');
SQL> EXECUTE DBMS_STATS.GATHER_SCHEMA_STATS('SYS');
```

6.1.3 Patch Set Application with Physical or Logical Standby Databases in Place

For information about applying a patch set to a current release of Oracle9i release 2 for a configuration that includes one or more physical standby databases, refer to notes available in *OracleMetaLink* document 187242.1.

6.1.4 Upgrading Preconfigured Standard Edition Databases

If you are using an Oracle9i release 2 (9.2) preconfigured Standard Edition database, then the database contains the following components that are not supported by the Standard Edition:

- Oracle Data Mining
- Oracle OLAP Catalog
- Oracle OLAP Analytic Workspace
- Oracle OLAP API
- Spatial

The `catpatch.sql` script does not run the patch scripts for these components. It sets the component STATUS to `OPTION OFF` in the `DBA_REGISTRY` view. The original versions of the dictionary objects for the components remain in the database but the `catpatch.sql` script does not apply the patch to them.

6.1.5 Oracle Streams

All databases that use any features of Oracle Streams must be upgraded to release 9.2.0.2 or later. Operation between release 9.2.0.1 and release 9.2.0.2 is not supported for databases using Oracle Streams features.

Before you install the patch set software, review Oracle *MetaLink* note 283565.1.

6.1.6 Oracle Data Guard

Several known issues relate to the following components of Oracle Data Guard:

- Redo Apply (Physical Standby Databases)
- SQL Apply (Logical Standby Databases)
- Data Guard Broker
- Data Guard Broker Failover

Refer to Oracle *MetaLink* document 259804.1 for a complete set of release notes applicable to Oracle Data Guard in Oracle9i release 2.

Before you install the patch set software, review Oracle *MetaLink* note 283565.1.

6.1.7 Oracle Advanced Queuing

Customers running Oracle Applications release 11.5.7 or 11.5.8 with Advanced Queuing configured with multiconsumer queues may encounter corruption problems after upgrading their database to 9.2.0.x from any Oracle8i database.

Note:

Refer to Oracle *MetaLink* note 231074.1 for more information.

6.1.8 Event 10499: NUMBER Datatypes

Event 10499 was introduced in release 9.2.0.3 to allow customers to revert to the earlier behavior of NUMBER datatypes that have no explicit setting of their scale value. Any nonzero setting of the event level enables the old behavior.

Before the introduction of this event, server code could return zero for the scale if a NUMBER datatype was created without specifying the scale. Other code paths would return -127. With this event, all code paths return -127, as this is the correct behavior.

Client applications may rely on the previous (incorrect) behavior. Typically, client applications will test for a scale of -127 to distinguish between NUMBER and FLOAT datatypes. It is not sufficient to test the scale alone to distinguish between these two datatypes. You must test for a scale of -127 and a nonzero precision to identify a FLOAT.

Client applications that rely on the old behavior can still work as before if the event is set. However, these applications must be corrected before upgrading to the next major release of the Oracle database.

6.1.9 Oracle XDK

The Oracle9i release 2 (9.2.0.7) patch set contains XDK release 9.2.0.9.

6.1.10 XML DB

XML DB users must use DB release 9.2.0.3 or later. Earlier releases are no longer supported.

6.1.11 PL/SQL Cursor Caching

In release 9.2.0.4 and earlier, the maximum number of cursors that could be cached for fast lookup by PL/SQL was bounded by the value of the `OPEN_CURSORS` initialization parameter. If you currently have this parameter set to a high value (for example, greater than 1000), it might be causing large numbers of PL/SQL cursors to be cached in the shared pool. This could lead to issues with memory management, frequent reloading of library cache objects, and ORA-04031 errors.

Starting with release 9.2.0.5, the `SESSION_CACHED_CURSORS` initialization parameter now determines the upper bound for PL/SQL cursor caching instead of the `OPEN_CURSORS` initialization parameter.

Most users do not need to modify the value of either of these parameters. If the `SESSION_CACHED_CURSORS` parameter value is greater than the `OPEN_CURSORS` parameter value, then this change has no performance affect on your system.

However, if the `SESSION_CACHED_CURSORS` parameter value is zero or a value significantly lower than the `OPEN_CURSORS` parameter value, and you want to cache PL/SQL cursors for optimal performance, then increase the `SESSION_CACHED_CURSORS` parameter value appropriately.

This issue is tracked with Oracle bug 3150705.

6.2 Preinstallation Considerations for Oracle Real Application Clusters

If you plan to install this patch in an Oracle Real Application Clusters environment, read the following sections before proceeding:

- [Preinstallation Considerations for Oracle Real Application Clusters](#)
- [Preinstallation Considerations for Oracle Real Application Clusters with Sun Clusterware](#)

If the directory `/usr/ucb` is in the search path on a UNIX system, then ensure that it is listed after `/usr/bin` and `/usr/ccs/bin` in the `$PATH` setting.

6.2.1 Preinstallation Considerations for Oracle Real Application Clusters

This patch set enables you to install the included patches on multiple nodes in a cluster if release 9.2.0.1 or higher is already installed on those nodes. Oracle Universal Installer detects whether the system where you are installing the software is part of a cluster environment. If it is, then the Oracle Universal Installer displays the available nodes from the cluster.

Note:

It is important that you install the patch set on the same set of nodes, which had the base release installation. Choosing a different set of nodes during the patch set installation than were chosen during the base release installation will cause unwanted results in your Real Application Clusters environment, as some nodes will be upgraded to the new software versions, while others will not.

6.2.2 Preinstallation Considerations for Oracle Real Application Clusters with Sun Clusterware

The UDLM 3.3.4.8 patch must be installed before applying this patch set for Oracle Real Application Clusters environments. The UDLM patch is included in this patch set. The installation instructions are located in the `/Disk1/racpatch/README.udlm` file.

6.3 Identify the Oracle9i Installation

This is not a complete software distribution. You must install it in an existing Oracle9i Oracle home. To identify Oracle home directories, view the `/var/opt/oracle/oratab` file.

If you are installing this patch set on an existing Real Application Clusters (RAC) installation, you must run the Installer from the same node from which you performed the initial installation.

6.4 Check Postrelease Updates

Before installing this patch set in a production environment, review document 189908.1, *ALERT: Oracle9i Release 2 (9.2) Support Status and Alerts*, available on the OracleMetaLink Web site at:

<http://metalink.oracle.com>

To locate this document:

1. Click **Advanced** at the top of the OracleMetaLink page.
2. Enter 189908.1 in the **Document ID** field, then click **Submit**.

This document is created by Oracle Support Services and provides information about the status of issues discovered after this patch set was released. If you are unable to access this site, then contact Oracle Support Services before installing this patch set in a production environment.

6.5 Download and Extract the Installation Software

To download and extract the patch set installation software:

1. Download and extract the `p4163445_9207_solaris64.zip` patch set installation archive to a directory that is not the Oracle home directory or under the Oracle home directory. For example, `Oracle_patch`.
2. Enter the following commands to unzip and extract the installation files:

```
$ unzip p4163445_9207_solaris64.zip
```

6.6 Set the ORACLE_HOME and ORACLE_SID Environment Variables

Enter the following commands to set the `ORACLE_HOME` and `ORACLE_SID` environment variables:

- Bourne, Bash, or Korn shell:

```
$ ORACLE_HOME=oracle_home  
$ ORACLE_SID=sid  
$ export ORACLE_HOME ORACLE_SID
```

- C shell:

```
% setenv ORACLE_HOME oracle_home  
% setenv ORACLE_SID sid
```


In these examples, oracle_home is the Oracle home directory where the Oracle9i installation that you want to upgrade is installed, and sid is the SID of the database that you want to upgrade.

6.7 Shut Down Oracle Databases

Shut down any existing Oracle database instances with normal or immediate priority. On RAC systems, shut down all instances on each node.

6.8 Stop All Processes

Stop all listener and other processes running in the Oracle home directory where you want to install the patch set.

6.9 Back Up the System

Oracle recommends that you create a backup of the Oracle9i installation before you install the patch set.

7 Installation Tasks

You can install the patch set either interactively or noninteractively. See one of the following sections for information about how to complete the installation:

- To install the patch set interactively, see the "[Installing the Patch Set Interactively](#)" section.
- To install the patch set noninteractively, see the "[Installing the Patch Set Noninteractively](#)" section.

Note:

You must use Oracle Universal Installer release 10.1.0.4 or later to install this patch set.

7.1 Installing the Patch Set Interactively

Note:

If you attempt to install this patch set in an Oracle home directory that does not contain an Oracle9i installation, the Installer displays a warning dialog with the following error:

```
There are no patches that need to be applied from the
patchset Oracle9i patch set 9.2.0.7.0
```

The Oracle Universal Installer does not allow the installation to proceed. Click **OK**, then click **Cancel** to end the installation.

The following procedure describes how to install the patch set interactively:

1. Log in as the Oracle software owner (typically oracle).
2. If you are not installing the software on the local system, enter the following command to direct X applications to display on the local system:

- Bourne, Bash, or Korn shell:

```
$ DISPLAY=local_host:0.0 ; export DISPLAY
```

- C shell:

```
% setenv DISPLAY local_host:0.0
```

In this example, *local_host* is the host name or IP address of the system that you want to use to display the Installer (your workstation or PC).

3. Enter following commands to start the Installer where *patchset_directory* is the directory where you unzipped the patch set software:

```
$ patchset_directory/Disk1  
$ ./runInstaller
```

4. On the Welcome screen, click **Next**.
5. On the Specify File Locations screen, click **Browse** next to the **Path** field in the **Source** section.
6. Select the `products.xml` file from the stage directory where you unpacked the patch set files, then click **Next**. For example:

`patchset_directory/Disk1/stage/products.xml`
7. In the **Name** field in the **Destination** section, select the name of the Oracle home that you want to update from the drop down list, then click **Next**.
8. If you are installing the patch set on an RAC cluster, click **Next** when the Selected Nodes screen appears.

Note:

The Selected Nodes screen lists the existing Oracle9i/RAC release 2 (9.2) nodes. The first node in the list is the node from where Oracle9i/RAC release 2 (9.2) was installed. You must install the patch set software from this node. If this is not the node where you are running the Installer, exit the Installer and install the patch set software from the first node in the list of nodes.

9. On the Summary screen, click **Install**.

This screen lists all of the patches available for installation.

10. When prompted, run the `$ORACLE_HOME/root.sh` script as the root user. If you are applying the patch set to an RAC installation, then run the `root.sh` script on each node of the cluster.
11. On the End of Installation screen, click **Exit**, then click **Yes** to exit from the Installer.

7.2 Installing the Patch Set Noninteractively

The following procedure describes how to install the patch set noninteractively:

1. Log in as the Oracle software owner (typically oracle).
2. Copy the response file template provided in the `response` directory where you unpacked the patch set archive file.
3. Edit the values for all fields labeled as `<Value Required>` as described by the comments and examples in the template.
4. To run the Installer, enter a command similar to the following, where `response_file` is the full path to the response file that you edited:

```
$ cd patchset_directory/Disk1
$ ./runInstaller -silent -responseFile response_file
```

5. After the installation, run the `$ORACLE_HOME/root.sh` script as the root user. If you are applying the patch set to an RAC installation, then run the `root.sh` script on each node of the cluster.

8 Postinstallation Tasks

Review the information in this section before using the upgraded software. This section lists required and optional postinstallation tasks, depending on the installation type and the products that you want to use.

- [Upgrading Databases from Previous Releases Directly to Oracle9i Release 2 \(9.2.0.7\)](#)
- [Required Postinstallation Tasks](#)
- [mod_plsql Postinstallation Steps](#)

8.1 Upgrading Databases from Previous Releases Directly to Oracle9i Release 2 (9.2.0.7)

To upgrade Oracle databases from a previous release directly to Oracle9i release 2 (9.2.0.7) follow the instructions in OracleMetalink note 214887.1 *Upgrading Directly to a 9.2.0 Patch Set*.

See Also:

For more information about upgrading a database, see the *Oracle9i Database Migration* guide.

8.2 Required Postinstallation Tasks

Complete the following tasks after installing the patch set software:

- [Check Tablespace Sizes and Set Parameter Values](#)
- [Upgrade the Database](#)
- [Download the Latest Version of OPatch](#)

8.2.1 Check Tablespace Sizes and Set Parameter Values

Review the following sections before upgrading a database.

8.2.1.1 Check SYSTEM Tablespace Size

If JServer is part of the installation ensure that there is at least 10 MB of free space allocated to the SYSTEM tablespace.

8.2.1.2 Check XDB Tablespace Size

For RAC installations, ensure that there is at least 50 MB of free space allocated to the XDB tablespace.

8.2.1.3 Set the SHARED_POOL_SIZE and JAVA_POOL_SIZE Initialization Parameters

Users who have JVM (Java enabled) or JVM and XDB installed on their 9.2.0.1 databases should make sure that the `init.ora` parameters `SHARED_POOL_SIZE` and `JAVA_POOL_SIZE` are each 150 MB or more before running the `catpatch.sql` upgrade script. Failure to do so could result in an unrecoverable memory failure while running of the script. Please note that JVM and XML DB was shipped as part of the default 9.2.0.1 seed database, and will be present unless the user explicitly installed a 9.2.0.1 instance without them.

Set the value of the `SHARED_POOL_SIZE` and the `JAVA_POOL_SIZE` initialization parameters as follows:

1. Start the database:

```
SQL> STARTUP
```

2. If necessary, enter the following command to determine whether the system uses an initialization parameter file (`initsid.ora`) or a server parameter file (`spfiledbname.ora`):

```
SQL> SHOW PARAMETER PFILE;
```

This command displays the name and location of the server parameter file or the initialization parameter file.

3. Determine the current values of these parameters:

```
SQL> SHOW PARAMETER SHARED_POOL_SIZE
SQL> SHOW PARAMETER JAVA_POOL_SIZE
```

4. If the system is using a server parameter file:

- a. If necessary, set the value of the `SHARED_POOL_SIZE` initialization parameter to at least 150 MB:

```
SQL> ALTER SYSTEM SET SHARED_POOL_SIZE='150M' SCOPE=spfile;
```

- b. If necessary, set the value of the `JAVA_POOL_SIZE` initialization parameter to at least 150 MB:

```
SQL> ALTER SYSTEM SET JAVA_POOL_SIZE='150M' SCOPE=spfile;
```

5. If the system uses an initialization parameter file, if necessary change the values of the `SHARED_POOL_SIZE` and the `JAVA_POOL_SIZE` initialization parameters to at least 150 MB in the initialization parameter file (`init $_{$ sid.ora`).

6. Shut down the database:

```
SQL> SHUTDOWN
```

8.2.2 Upgrade the Database

After you install the patch set, you must perform the following steps on every database associated with the upgraded Oracle home:

1. Log in as the Oracle software owner (typically `oracle`).
2. For RAC installations, start the Global Services Daemon (GSD) on each node of the cluster as follows:

```
$ gsdctl start
```

3. Start the Oracle Net listener as follows:

```
$ lsnrctl start
```

Note:

For RAC installations, start the listener on each node of the cluster.

If you are using the Oracle OLAP option, make sure that the listener is running.

4. For single-instance installations, use `SQL*Plus` to log in to the database as the `SYS` user with `SYSDBA` privileges:

```
$ sqlplus /nolog
SQL> CONNECT / AS SYSDBA
```

5. For RAC installations:

- a. Start the database as follows, where *db_name* is the database name:

```
$ srvctl start database -d db_name
```

- b. Use SQL*Plus to log in to the database as the SYS user with SYSDBA privileges:

```
$ sqlplus /nolog
SQL> CONNECT / AS SYSDBA
```

- c. Set the CLUSTER_DATABASE initialization parameter to FALSE:

```
SQL> ALTER SYSTEM SET CLUSTER_DATABASE=FALSE SCOPE=spfile;
```

Note:

If the system uses an initialization parameter file, change the value of the CLUSTER_DATABASE initialization parameter to FALSE in the initialization parameter file (*initsid.ora*).

- d. Exit SQL*Plus and shut down the database:

```
SQL> EXIT
$ srvctl stop database -d db_name
```

- e. Use SQL*Plus to log in to the database as the SYS user with SYSDBA privileges:

```
$ sqlplus /nolog
SQL> CONNECT / AS SYSDBA
```

6. Enter the following SQL*Plus commands:

```
SQL> STARTUP MIGRATE
SQL> SPOOL patch.log
SQL> @?/rdbms/admin/catpatch.sql
SQL> SPOOL OFF
```

7. Review the *patch.log* file for errors and inspect the list of components that is displayed at the end of *catpatch.sql* script.

This list provides the version and status of each SERVER component in the database.

8. If necessary, rerun the *catpatch.sql* script after correcting any problems.

9. Restart the database:

```
SQL> SHUTDOWN
SQL> STARTUP
```

10. Run the `utlrbp.sql` script to recompile all invalid PL/SQL packages now instead of when the packages are accessed for the first time. This step is optional but recommended.

```
SQL> @?/rdbms/admin/utlrbp.sql
```

11. For RAC installations:

- a. Set the `CLUSTER_DATABASE` initialization parameter to `TRUE`:

```
SQL> ALTER SYSTEM SET CLUSTER_DATABASE=TRUE SCOPE=spfile;
```

Note:

If the system uses an initialization parameter file, change the value of the `CLUSTER_DATABASE` initialization parameters to `TRUE` in the initialization parameter file (`initsid.ora`).

- b. Restart the database:

```
SQL> SHUTDOWN
SQL> STARTUP
```

12. If you are using the Oracle Recovery Manager catalog, enter the following command:

```
$ rman catalog username/password@alias
RMAN> UPGRADE CATALOG;
```

13. If Oracle Internet Directory release 9.2.0 is installed in the Oracle home, run the following shell script:

Note:

Make sure that the database and database listener are running, and all parameters for the `oidpatchca.sh` script are specified before running the script.

```
$_ORACLE_HOME/bin/oidpatchca.sh
-connect Connect_String
-lsnrport Listener_Port
-systempwd SYSTEM_Password
-odspwd ODS_Password
-sudn Super-User_DN
-supwd Super-User_Password
-dippwd Password_to_register_DIP_Server
```

In the preceding example, `Password_to_register_DIP_Server` must conform to the password policy in the Oracle Internet Directory server.

8.2.3 Download the Latest Version of OPatch

You must install OPatch version 1.0.0.0.53 in order to apply patches on top of 9.2.0.7. Download and unzip patch 2617419.

See Also:

OracleMetaLink Note 224346.1 and Note 189489.1 for more information.

8.3 mod_plsql Postinstallation Steps

Complete the following steps only if mod_plsql is installed. The following steps should be repeated with all the database instances associated with this 9.2.0.7 Oracle home.

1. Run owa_patch.sql to update owa packages from mod_plsql patch directory:

- Change to the \$ORACLE_HOME/Apache/modplsql/patch directory. For example,

```
$ cd $ORACLE_HOME/Apache/modplsql/patch
```

- Connect to the database instance as sysdba:

```
$ sqlplus " / as sysdba"  
SQL> @@owa_patch.sql
```

Check owa_patch_sid.log file for any errors.

2. Run the utlrlp.sql script to recompile all invalid PL/SQL packages now instead of when the packages are accessed for the first time. This step is optional but recommended.

```
SQL> @?/rdbms/admin/utlrlp.sql
```

9 Removing the Patch Set Software

Starting in 9.2.0.7.0, there is a new script called catbkout.sql. This script enables the user to restore the Oracle9i installation of the database back to the original 9.2 patch release (as long as it is 9.2.0.4 or greater) that the user backed up before applying the patch set. Perform the following steps for backing out from the 9207 patch release:

1. Before restoring the Oracle home to the original release, perform the following steps:

```
$ sqlplus /nolog  
SQL> connect / AS SYSDBA  
SQL> SHUTDOWN  
SQL> STARTUP MIGRATE  
SQL> SPOOL catbkout.out  
SQL> @?/rdbms/admin/catbkout.sql  
SQL> SHUTDOWN IMMEDIATE
```

2. Restore the Oracle9i installation and Central Inventory
(see /var/opt/oracle/oraInst.loc) that you backed up before applying the patch set

3. After restoring the original Oracle home, perform the following steps:

```
$ sqlplus /nolog
SQL> connect / AS SYSDBA
SQL> STARTUP MIGRATE
SQL> SPOOL catpatch.out
SQL> @?/rdbms/admin/catpatch.sql
```

4. If Oracle Spatial is installed with the database, perform the following steps:

```
SQL> alter session set current_schema = mdsys;
SQL> @?/md/admin/prvtsidx.plb
SQL> @?/md/admin/prvt3glh.plb
SQL> @?/md/admin/prvt3gl.plb
SQL> alter session set current_schema = sys;
```

5. Shut down the database:

```
SQL> SHUTDOWN IMMEDIATE
```

6. Start the database and recompile the remaining invalid objects:

```
SQL> STARTUP
SQL> @?/rdbms/admin/utlrp.sql
```

7. Review catbkout.out and catpatch.out for errors

10 Reinstalling the Patch Set Software

If necessary, you can reinstall a patch set that has been applied to an Oracle9i installation. You must reinstall the patch set interactively.

To reinstall the patch set:

1. Log in as the Oracle software owner (typically oracle).
2. If you are not installing the software on the local system, enter the following command to direct X applications to display on the local system:

- Bourne, Bash, or Korn shell:

```
$ DISPLAY=local_host:0.0 ; export DISPLAY
```

- C shell:

```
% setenv DISPLAY local_host:0.0
```

In this example, *local_host* is the host name or IP address of the system that you want to use to display the Installer (your workstation or PC).

3. Enter the following commands to start the Oracle Universal Installer, where `patchset_directory` is the directory where you unzipped the patch set software:

```
$ cd patchset_directory/Disk1
$ ./runInstaller
```

4. If you are installing the patch on an RAC cluster, click **Next** on the Selected Nodes screen.
5. On the Specify File Locations screen, click **Browse** next to the **Path** field in the **Source** section.
6. Select the `products.xml` file from the stage directory where you unpacked the patch set files. For example:

```
patchset_directory/Disk1/stage/products.xml
```

7. Select the Oracle home that you want to upgrade in the **Name** field in the **Destination** section, then click **Next**.

Note:

If you are not sure of the name of the Oracle home, click **Installed Products** to determine the name of the Oracle home that you want to upgrade.

The Available Product Component screen appears. This screen contains a list of all components that have been patched by the original patch set installation. These components are grayed out, indicating they cannot be selected for installation.

8. Expand the nodes for each component listed in the tree to display the patch that corresponds to each component.
9. Select the patches that you want to install.

When you select a patch, the **Install Status** column changes to "reinstall."

10. Repeat the process for each patch bundled in the patch set, then click **Next**.
11. On the Summary screen, verify the list of patches to be reinstalled, then click **Install**.
12. On the End of Installation screen, click **Exit**, then click **Yes** to exit from the Installer.

11 Known Issues

Review the following known issues after you apply the patch set. The following known issues apply to this patch set release:

- [Procedural Gateway for APPC or Transparent Gateway for IBM DRDA: Unspecified Error Message](#)
- [Oracle Procedural Gateway for APPC Configuration Parameters](#)

- [Bug 2602782](#)
- [Bug 3259636](#)
- [Bug 3785754](#)
- [Bug 4270038](#)

11.1 Procedural Gateway for APPC or Transparent Gateway for IBM DRDA: Unspecified Error Message

During the installation of Procedural Gateway for APPC or Transparent Gateway for IBM DRDA, you may encounter an error message regarding an unspecified target of the makefile. The error message can be ignored. The following is an example of a message that can be ignored:

```
Error while invoking target <blank> of makefile
/oracle/9.2.0.7/gateway/lib/gateway.mk
```

The following is an example of a valid error message. Notice that the target of the makefile is identified. Messages similar to the following should not be ignored, and you should contact Oracle Support Services.

```
Error while invoking target install of makefile
/oracle/9.2.0.7/gateway/lib/gateway.mk
```

11.2 Oracle Procedural Gateway for APPC Configuration Parameters

If you use Oracle Procedural Gateway for APPC, comment out the following parameters if they are present in the gateway shell script or `initsid.ora` files:

- FDS_CLASS
- FDS_CLASS_VERSION
- FDS_INSTANCE

11.3 Bug 2602782

Scrollable ResultSet returns 3 times NCHAR character byte size when database Ncharset is UTF8. This problem occurs only with the JDBC Thin driver.

11.4 Bug 3259636

If you use DBCA to create a new database using the seed database option, some of the components will be from an older version. This is because the seed database was created before the patch release.

To update all the components, ensure that you have followed the steps described in the "[Upgrade the Database](#)" section .

11.5 Bug 3785754

If you are using Oracle Streams, SQL Apply with a logical standby database, or the LogMiner query

tool using the `DICTIONARY_FROM_REDO_LOGS` option, you might see a warning similar to the following when you run the `catpatch.sql` script:

```
***WARNING*** At 21-SEP-04 09:52:09 problems related to bug 3785754 were encountered
Call Oracle support.
```

This warning indicates that problems were detected in the LogMiner dictionary. See Oracle *MetaLink* note 283565.1 for information about these problems.

Depending on the application that you are running, do the following:

- Oracle Streams
 - Destroy and re-create captures.
- Logical Standby
 - Reinstantiate the standby database.

If it is not practical to take these actions, contact Oracle Support for alternative instructions to repair the LogMiner dictionary.

Note:

If you receive this warning, you must fix the problems in the LogMiner dictionary before resuming normal operations. If you do not immediately fix the problems, you may not be able to fix the problems in the future.

11.6 Bug 4270038

When using Database Configuration Assistant in standalone mode to create a database, the following error will occur:

```
ORA-29807: specified operator does not exist
```

Workaround:

Click **Ignore**.

12 Fixed Platform-Specific Bugs

The following table is a cumulative list of the platform-specific bugs fixed in all Oracle9i patch sets to date:

Fixed in Release	Bug Number	Description
9.2.0.3	2453925	AVMPING dumps core (APRAC64 bit 9.2 release)
9.2.0.3	2490128	Process class missing from Operating System cart
9.2.0.3	2746047	Siemens bug - DLMD's DD_TS enqueue not cleaned during RCFG
9.2.0.3	2749790	SIGBUS in XSCBIXLINBYTE2SEG during dynamic aggregate

9.2.0.4	2805249	SGA shrink may not release memory back to the O/S on Solaris.
9.2.0.5	2854962	Sun: Oracle Real Application Clusters on Solaris can only support up to 4 nodes.
9.2.0.5	2872469	ORA-03113 for select on ALL_CONSTRAINTS over informix gateways link
9.2.0.4	2882059	OLAP API library built incorrectly
9.2.0.4	2917199	FTP operation with SB XMLTYPE stored as CLOB results in corrupt data
9.2.0.5	2986722	The problem of external procedure calling C shell script
9.2.0.5	3081593	Network data class always zero in 64-bit version
9.2.0.5	3211137	Not able to move SGABEG on a 64-bit Operating System
9.2.0.5	3234112	Bug 2954997 not fixed in 9204 on solaris 64-bit
9.2.0.5	3391626	LCK process terminates getting an error at SSKGXPRDTRCV using RSM/RDT
9.2.0.5	3566420	Background process got OERI:KSLAWE: !PWQ and instance crashes
9.2.0.5	3623983	Base bug for core portion of VOS fix in 3616577
9.2.0.6	3630238	The network metrics are missing in capacity planner

13 Patch Set Components

The following table lists the components included in this patch set:

Component	Version
Advanced Queuing (AQ) API	9.2.0.7
Agent required support files	9.2.0.7
Assistant common files	9.2.0.7
Data Management Services common files	9.2.0.7
Authentication and encryption	9.2.0.7
Database SQL scripts	9.2.0.7
Database Verify utility	9.2.0.7
DCE integration	9.2.0.7
Export/import	9.2.0.7
External naming: NIS	9.2.0.7
Generic connectivity common files	9.2.0.7
Generic connectivity using ODBC	9.2.0.7
JDBC common files	9.2.0.7
JDBC/OCI common files	9.2.0.7
LDAP required support files	9.2.0.7
Migration utility	9.2.0.7
Object Type Translator	9.2.0.7
Oracle C++ Call Interface	9.2.0.7
Oracle Call Interface (OCI)	9.2.0.7
Oracle Client required support files	9.2.0.7
Oracle Connection Manager	9.2.0.7
Oracle Core required support files	9.2.0.7

Oracle database demos	9.2.0.7
Oracle database utilities	9.2.0.7
Oracle Data Mining	9.2.0.7
Oracle <i>interMedia</i> Client compatibility files	9.2.0.7
Oracle <i>interMedia</i> Java Advanced Imaging	9.2.0.7
Oracle Internet Directory Client	9.2.0.7
Oracle Internet Directory Server	9.2.0.7
Oracle Intelligent Agent	9.2.0.7
Oracle <i>interMedia</i> Locator	9.2.0.7
Oracle JDBC Development Drivers	9.2.0.7
Oracle JDBC Thin Driver for JDK 1.2	9.2.0.7
Oracle JDBC Thin Driver for JDK 1.4	9.2.0.7
Oracle JVM	9.2.0.7
Oracle Java Tools	9.2.0.7
Oracle Label Security	9.2.0.7
Oracle Names	9.2.0.7
Oracle Net Configuration Assistant	9.2.0.7
Oracle Net Listener	9.2.0.7
Oracle Net Manager	9.2.0.7
Oracle Net	9.2.0.7
Oracle Net Protocol Support	9.2.0.7
Oracle Net required support files	9.2.0.7
Oracle OLAP	9.2.0.7
Oracle Partitioning	9.2.0.7
Oracle Procedural Gateway for IBM MQSeries	9.2.0.7
Oracle Procedural Gateway for APPC	9.2.0.7
Oracle9i/Real Application Clusters Guard	9.2.0.7
Oracle Text	9.2.0.7
Oracle Transparent Gateway for Informix	9.2.0.7
Oracle Transparent Gateway for DRDA	9.2.0.7
Oracle Transparent Gateway for INGRES II	9.2.0.7
Oracle Transparent Gateway for Sybase	9.2.0.7
Oracle Transparent Gateway for Teradata	9.2.0.7
Oracle Ultra Search common files	9.2.0.7
Oracle Ultra Search middle-tier	9.2.0.7
Oracle UltraSearch server	9.2.0.7
Oracle Wallet Manager	9.2.0.7
Oracle XML Developer's Kit	9.2.0.9.0
Oracle XML SQL utility	9.2.0.7
Oracle9i/release 2 Globalization	9.2.0.7

Oracle9/release 2 Real Application Clusters	9.2.0.7
Oracle9/release 2	9.2.0.7
Oracle PL/SQL	9.2.0.7
Oracle PL/SQL required support files	9.2.0.7
Precompiler common files	9.2.0.7
Precompiler required support files	9.2.0.7
Pro*C/C++	9.2.0.7
Pro*COBOL	1.8.77.7.0
Pro*COBOL	9.2.0.7
Pro*FORTRAN	1.8.77.7.0
Oracle database required support files	9.2.0.7
Oracle Recovery Manager	9.2.0.7
Secure Socket Layer (SSL)	9.2.0.7
SQL*Loader	9.2.0.7
SQL*Module Ada	9.2.0.7
SQL*Module Ada common files	9.2.0.7
SQL*Plus	9.2.0.7
SQLJ Runtime	9.2.0.7
SSL required support files	9.2.0.7
Utilities common files	9.2.0.7
XML Parser for C	9.2.0.7
XML Parser for C++	9.2.0.7
XML Parser for Java	9.2.0.7
XML Parser for PL/SQL	9.2.0.7
XML Parser for Oracle JVM	9.2.0.7
XSQL Servlet	9.2.0.7

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