Oracle® Database

Release Notes

11*g* Release 1 (11.1) for Linux

B32001-03

September 2007

This document contains important information that was not included in the platform-specific or product-specific documentation for this release. This document supplements *Oracle Database Readme*.

This document may be updated after it is released. To check for updates to this document and to view other Oracle documentation, refer to the Documentation section on the Oracle Technology Network (OTN) Web site:

`http://www.oracle.com/technology/documentation/`

For additional information about this release, refer to the readme files located in the `$ORACLE_HOME/relnotes` directory.

This document contains the following topics:

- Certification Information
- Unsupported Products
- Preinstallation Requirements
- Installation, Configuration, and Upgrade Issues
- Other Known Issues
- Documentation Corrections and Additions
- Documentation Accessibility

1 Certification Information

The latest certification information for Oracle Database 11*g* Release 1 (11.1) is available on Oracle*MetaLink* at:

`http://metalink.oracle.com`

2 Unsupported Products

A list of unavailable features and products is available in Section 2, "Features Not Available or Restricted in This Release", in *Oracle Database Readme*.

3 Preinstallation Requirements

Refer to the installation guides for the preinstallation requirements.

4 Installation, Configuration, and Upgrade Issues

Review the following section for information about issues that affect Oracle Database installation, configuration, and upgrade:

- The /etc/oratab File Lists Multiple Automatic Storage Management Instances
- Installation, Configuration, and Upgrade Issues on Linux x86
- Installation, Configuration, and Upgrade Issues on Linux x86-64

4.1 The /etc/oratab File Lists Multiple Automatic Storage Management Instances

If you install Oracle Clusterware on shared Oracle home, the `/etc/oratab` file lists multiple Automatic Storage instances.

When Automatic Storage Management Oracle home is installed in shared file system to create Automatic Storage Management instances from Oracle Universal Installer, multiple Automatic Storage Management instances are listed in the `/etc/oratab` file.

Workaround: Oracle Universal Installer detects this issue during the prerequisite checks. You can edit the `/etc/oratab` file in each node and remove the entries that are not part of that node. The alternative is to install the software, run the `root.sh` script on all nodes and create Automatic Storage Management instance by running Database Configuration Assistant.

The issue is tracked with Oracle bug 5942123.

4.2 Installation, Configuration, and Upgrade Issues on Linux x86

The following are the Linux x86-specific issues that affect Oracle Database installation, configuration, and upgrade:

- Oracle Database Configuration Assistant Does not Respond After Specifying Backup and Recovery Options
- Oracle Universal Installer Shows Oracle Database Configuration Assistant Status as Failed

> **Note:** The issues mentioned in this section are observed only in Linux x86.

4.2.1 Oracle Database Configuration Assistant Does not Respond After Specifying Backup and Recovery Options

If you are creating a database without using Automatic Storage Management and specify Automatic Storage Management to store backup and recovery data, then Oracle Database Configuration Assistant stops responding.

Workaround: Select **Do not enable Automated Backups** while creating the database and finish the installation process. After the installation process has finished, run Oracle Database Configuration Assistant and configure Backup and Recovery storage.

This issue is tracked with Oracle bug 6417211.

4.2.2 Oracle Universal Installer Shows Oracle Database Configuration Assistant Status as Failed

Oracle Universal Installer intermittently displays Oracle Database Configuration Assistant status as failed even after it finishes the installation process successfully.

This behavior is seen intermittently if you leave Oracle Database installation running for a long time without acknowledging the confirmation dialog shown by Oracle Database Configuration Assistant at the end of the database creation. The configured Oracle database and Oracle Database Control function normally. This error can be safely ignored.

This issues is tracked with Oracle bug 6238219.

4.3 Installation, Configuration, and Upgrade Issues on Linux x86-64

The following are the Linux x86-64 specific issues that affect Oracle Database installation, configuration, and upgrade:

- The Oracle Home Directory Structure is Changed for Instant Client

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Note: The issues mentioned in this section are not observed in Linux x86.

4.3.1 The Oracle Home Directory Structure is Changed for Instant Client

In the earlier releases, the `$ORACLE_HOME/lib` directory contained all the libraries. However, when installing Oracle Database Instant Client, the 32-Bit libraries are missing from the installation. To resolve this issue, `$ORACLE_HOME/lib32` directory is added to the directory structure to store the 32-Bit libraries.

This issue is tracked with Oracle bug 6338225.

5 Other Known Issues

The following sections contain information about issues related to Oracle Database 11*g* and associated products:

- Collecting CPU Usage Metric Displays an Error
- Error While Loading Shared Library When SELinux is Enforcing on Oracle Enterprise Linux 5.0 and Red Hat Enterprise Linux 5.0
- Host Administration Tab on Oracle Enterprise Manager Database Control Fails on Oracle Enterprise Linux 5
- Linking Applications With Oracle Client Libraries
- Pro*C Does not Support all C99 Syntax
- The rstora File Linking Fails
- The Uploading Patches Feature Crashes in Mozilla Firefox 1.5 on Linux
- Using Block Devices
- Using Raw Logical Volumes
- Known Issues on Linux x86-64

5.1 Collecting CPU Usage Metric Displays an Error

If Oracle Enterprise Manager Database Control is running on Oracle Enterprise Linux 5 or Red Hat Enterprise Linux 5, Metric Collection Error is displayed for the CPU Usage metric. Due to this issue, the CPU usage information for the host is not displayed. Therefore, you cannot set alert threshold on the host CPU usage.

This issue is tracked with Oracle bug 6316367.

5.2 Error While Loading Shared Library When SELinux is Enforcing on Oracle Enterprise Linux 5.0 and Red Hat Enterprise Linux 5.0

SQL*Plus and Oracle Call Interface (OCI) program calls fail with `SELinux` in the `Enforcing` mode on Oracle Enterprise Linux 5.0 and Red Hat Enterprise Linux 5.0. Refer to the Oracle*MetaLink* note 454196.1 for more details about the issue.

Workaround: Shift `SELinux` to `Permissive` mode on the system.

This issue is tracked with Oracle bugs 6140224 and 6342166.

5.3 Host Administration Tab on Oracle Enterprise Manager Database Control Fails on Oracle Enterprise Linux 5

When you click the Host Administration tab of the Oracle Enterprise Manager Database Control on Oracle Enterprise Linux 5, the following error is displayed:

```
This feature is only available on hosts running Red Hat Linux and SUSE Linux
Operating Systems.
```

Due to this issue, you cannot administer the host using Oracle Enterprise Manager Database Control on Oracle Enterprise Linux 5.

This issue is tracked with Oracle bug 6316469.

5.4 Linking Applications With Oracle Client Libraries

The use of the client static library is not supported.

5.5 Pro*C Does not Support all C99 Syntax

On Red Hat Enterprise Linux 5 and SUSE Linux Enterprise Server 10, standard C header files may contain symbols, such as `__LDBL_REDIR1_DECL`, which Pro*C parser fails to recognize.

Workaround: You can use one of the following code in the `.pc` files so that the header file does not get included during precompilation:

```
#ifndef ORA_PROC
#include <filename.h>
#endif
```

or

```
#ifdef ORA_PROC
#define _HEADERFILENAME_H__
#endif
```

This issue is tracked with Oracle bug 6142780.

5.6 The rstora File Linking Fails

When installing Oracle Database 11*g*, Oracle Universal Installer removes third party library paths from the `LD_LIBRARY_PATH` variable for security reasons. Due to this, the relinking of the `rtsora` file fails during installation. The `rtsora` file can be relinked by updating the `LD_LIBRARY_PATH` variable with the path where Cobol libraries are available and calling an appropriate make target. You can use the following commands to make the `rstora` file:

```
$ cd $ORACLE_HOME/precomp/lib
$ make -f ins_precomp.mk rtsora
```

5.7 The Uploading Patches Feature Crashes in Mozilla Firefox 1.5 on Linux

When uploading patches through Oracle Enterprise Manager Database Control using the Mozilla Firefox 1.5 Web browser on Linux, the Web browser window crashes.

Workaround: Start the Mozilla Firefox 1.5 Web browser client from a non-Linux environment or use an alternate Web browser, such as Internet Explorer.

This issue is tracked with Oracle bug 6008421.

5.8 Using Block Devices

Use the following procedure to create block device partitions:

1. Use `fdisk` to create disk partitions on block devices for database files
2. On each node, create or modify the permissions file in `/etc/udev/permissions.d`, to change the permissions of the datafiles from default `root` ownership. On Asianux 2, Oracle Enterprise Linux 4, and Red Hat Enterprise Linux 4, this file should be called `49-oracle.permissions`, so that the kernel loads it before the `50-udev.permissions` file. On Asianux 3, Oracle Enterprise Linux 5, Red Hat Enterprise Linux 5, and SUSE Linux Enterprise Server 10, this file should be called `51-oracle.permissions`, so that the kernel loads it after the `50-udev.permissions` file.

   For each partition, The following are the contents of the *xx*`-oracle.permissions` file for each partition:

   devicepartition:*oracle_db_install_owner*:OSDBA:0660

5.9 Using Raw Logical Volumes

You can also use raw logical volumes as shared storage media for Oracle Database files. After you have created the required partitions, you must bind the partitions to raw devices on every node. However, you must first determine what raw devices are already bound to other devices. Refer to the "5.6.4 Using Raw Logical Volumes on Linux" section of Chapter 5, "Configuring Oracle Real Application Clusters Storage" in *Oracle Clusterware Installation Guide for Linux* for the procedure to be followed to use raw logical volumes as shared storage media for Oracle Database files.

5.10 Known Issues on Linux x86-64

The following are the Linux x86-64 specific known issues:

- Reactivate the OC4JADMIN User for Oracle Ultra Search
- Syntax Error in the demo_rdbms32.mk File

> **Note:** The issues mentioned in this section are not observed in Linux x86.

5.10.1 Reactivate the OC4JADMIN User for Oracle Ultra Search

The `OC4JADMIN` user is deactivated during the Oracle Database 11*g* installation process. After the installation is complete, you must modify the `$ORACLE_HOME/oc4j/j2ee/OC4J_SEARCH/config/system-jazn-data.xml` file. Replace the following content of the file:

```
<user deactivated="true">
<name>oc4jadmin</name>
<display-name>OC4J Administrator</display-name>
<description>OC4J Administrator</description>
```

with:

```
<user>
<name>oc4jadmin</name>
<display-name>OC4J Administrator</display-name>
<description>OC4J Administrator</description>
```

Use the following commands to restart the Oracle Ultra Search middle tier in the Oracle Database:

```
$ $ORACLE_HOME/bin/searchctl stop
$ $ORACLE_HOME/bin/searchctl start
```

5.10.2 Syntax Error in the demo_rdbms32.mk File

When compiling 32-bit demonstrations using the `$ORACLE_HOME/rdbms/demo/demo_rdbms32.mk` file, the `make` utility displays the following error message:

```
demo_rdbms32.mk:302: *** missing separator (did you mean TAB instead of 8
spaces?).
Stop.
```

Workaround: Complete the following procedure to resolve this issue:

1. Open the `demo_rdbms32.mk` file in a text editor, such as `vi` editor.
2. Replace 8 spaces in the beginning of lines 302 and 305 with a Tab space.

This issue is tracked with Oracle bug 6432737.

6 Documentation Corrections and Additions

None

7 Documentation Accessibility

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