

# Oracle® Database

Release Notes

10g Release 2 (10.2) for Linux on POWER

**B25146-02**

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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* and may be updated after it is released.

To check for updates to this document and to view other Oracle documentation, see 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](#)
- [Raw Devices on Red Hat Enterprise Linux 4.0](#)
- [Unsupported Products](#)
- [Preinstallation Requirements](#)
- [ASMLib Package Requirements](#)
- [Installation, Configuration, and Upgrade Issues](#)
- [Other Known Issues](#)
- [Documentation Accessibility](#)

## 1 Certification Information

The latest certification information for Oracle Database 10g release 2 (10.2) is available on *OracleMetaLink* at:

<http://metalink.oracle.com>

### **Products and Components Not Certified at the Time of This Publication**

At the time of this publication, Oracle Cluster File System version 2 is not certified on Red Hat Enterprise Linux 4.0 and SUSE Linux Enterprise Server 9.

## 2 Raw Devices on Red Hat Enterprise Linux 4.0

When you restart a Red Hat Enterprise Linux 4.0 system, raw devices revert to their original owners and permissions by default. If you are using raw devices

with this operating system for your Oracle files, for example, for ASM storage or Oracle Clusterware files, you need to override this default behavior. To do this, add an entry to the `/etc/rc.d/rc.local` file for each raw device containing the `chmod` and `chown` commands required to reset them to the required values.

As an example, here are sample entries in a `/etc/rc.d/rc.local` file that control the restart behavior of raw devices for two ASM disk files (`/dev/raw/raw6` and `/dev/raw/raw7`), two Oracle Cluster Registry files (`/dev/raw/raw1` and `/dev/raw/raw2`), and three Oracle Clusterware voting disks (`/dev/raw/raw3`, `/dev/raw/raw4`, and `/dev/raw/raw5`):

```
# ASM
chown oracle:dba /dev/raw/raw6
chown oracle:dba /dev/raw/raw7
chmod 660 /dev/raw/raw6
chmod 660 /dev/raw/raw7
# OCR
chown root:oinstall /dev/raw/raw1
chown root:oinstall /dev/raw/raw2
chmod 660 /dev/raw/raw1
chmod 660 /dev/raw/raw2
# Voting Disks
chown oracle:oinstall /dev/raw/raw3
chown oracle:oinstall /dev/raw/raw4
chown oracle:oinstall /dev/raw/raw5
chmod 644 /dev/raw/raw3
chmod 644 /dev/raw/raw4
chmod 644 /dev/raw/raw5
```

### 3 Unsupported Products

The following products are not supported with Oracle Database 10g release 2 (10.2):

- Grid Control Support  
Oracle Database 10g release 2 (10.2) can be managed as a target by Grid Control 10.1.0.4. However, Oracle Database 10g release 2 is not supported by Grid Control 10.1.0.4 as a repository.
- COBOL  
Oracle Database 10g release 2 (10.2) does not support COBOL on Red Hat Enterprise Linux 4.0.
- Messaging Gateways with MQseries 5.3  
Oracle Database 10g release 2 (10.2) does not support Messaging Gateways with MQseries 5.3.  
This issue is tracked with Oracle bug 4737821.

### 4 Preinstallation Requirements

Before upgrading to or installing Oracle Database 10g release 2, install the `libaio` package.

## 5 ASMLib Package Requirements

Install `oracleasm-support` package version 2.0.1 or later to use ASMLib on Red Hat Enterprise Linux 4.0 Advanced Server or SUSE Linux Enterprise Server 9.

## 6 Installation, Configuration, and Upgrade Issues

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

- [Adding a Node to a Shared Oracle Clusterware Configuration](#)
- [Installing Enterprise Security Manager](#)
- [extjob Executable Required Directory Permissions](#)
- [Modifying a Virtual IP Address Node Application](#)

### 6.1 Adding a Node to a Shared Oracle Clusterware Configuration

Before running `root.sh` in the first node of a shared Oracle Clusterware home, add the following line in the `$ORA_CRS_HOME/opmn/conf/ons.config` file:

```
usesharedinstall=true
```

This issue is tracked with Oracle bug 4454562.

### 6.2 Installing Enterprise Security Manager

To install Enterprise Security Manager (ESM), install Oracle Client and choose the Administrator installation type.

### 6.3 extjob Executable Required Directory Permissions

To enable the `extjob` executable to locate required libraries, the `$ORACLE_HOME/lib` directory and all of its parent directories must have execute permissions for `group` and `other`.

### 6.4 Modifying a Virtual IP Address Node Application

When modifying the name, IP address, or netmask of an existing virtual IP address (VIP) resource, use the following command:

```
srvctl modify nodeapps
```

and include the existing interfaces for the VIP in the `-A` argument. For example:

```
srvctl modify nodeapps -n mynode1 -A 100.200.300.40/255.255.255.0/eth0
```

This issue is tracked with Oracle bug 4500688.

## 7 Other Known Issues

The following sections contain information about issues related to Oracle Database 10g and associated products:

- [European Language Locale](#)

- [Oracle Clusterware Files Issues](#)
- [Cluster Verification Utility Issues](#)
- [VLM Window Size on Red Hat Enterprise Linux 4.0](#)
- [Removing Metrics for Wait Classes Removes Them Permanently](#)
- [Interim Fix for the IBM XL C/C++ Advanced Edition V7.0 for Linux Runtime Environment Component](#)
- [Using the org.w3c.dom.ls Package With IBM JDK 1.4.2](#)

## 7.1 European Language Locale

If your system uses a European language, then you must not use the UTF-8 locale. For example, if your system uses German, set the `LANG` and `LC_ALL` environment variables to `de_DE` instead of `de_DE.UTF-8`.

This issue is tracked with Oracle bug 3957096.

## 7.2 Oracle Clusterware Files Issues

The following note applies if you are using Red Hat Enterprise Linux 4.0 and using raw devices to store the Oracle Cluster Registry (OCR) and the voting disk for Oracle Clusterware, or using raw devices for Automatic Storage Management (ASM) database files. For each raw device used for the purposes listed, you must add two entries in the `/etc/rc.d/rc.local` file after running the `root.sh` script following the installation of Oracle Clusterware.

For each OCR file, the entries should look as follows, where `oinstall` is the Oracle install group and `/dev/raw/rawn` is an individual device file:

```
chown root:oinstall /dev/raw/rawn
chmod 640 /dev/raw/rawmar
```

For each voting disk file, the entries should look as follows, where `oracle` is the Oracle user, `oinstall` is the Oracle install group, and `/dev/raw/rawn` is an individual device file:

```
chown oracle:oinstall /dev/raw/rawn
chmod 644 /dev/raw/rawmar
```

For each ASM file, the entries should look as follows, where `oracle` is the Oracle user, `oinstall` is the Oracle install group, and `/dev/raw/rawn` is an individual device file:

```
chown oracle:oinstall /dev/raw/rawn
chmod 660 /dev/raw/rawmar
```

## 7.3 Cluster Verification Utility Issues

This section lists the issues with Cluster Verification Utility on Red Hat Enterprise Linux 4.0 and SUSE Linux Enterprise Server 9:

- The preinstallation stage verification checks for Oracle Clusterware and Oracle Real Applications Clusters and reports missing packages. Ignore the following missing package and continue with the installation:

```
compat-libstdc++-33-3.2.3-47.3
```

## 7.4 VLM Window Size on Red Hat Enterprise Linux 4.0

To use hugepages or to accommodate the VLM window size on Red Hat Enterprise Linux 4.0, you must increase the default maximum size of the per-process locked memory. To increase the per-process max locked memory limit, add the following lines to the `/etc/security/limits.conf` file, where `oracle` is the user that administers the database:

```
oracle soft memlock 3145728
oracle hard memlock 3145728
```

## 7.5 Link Error While Running `genorasdksh` on Red Hat Enterprise Linux 4.0

Installing Oracle Database 10g release 2 (10.2.0.1) on Red Hat Enterprise Linux 4.0 Update 1 (2.6.9-11.ELsmp) produces a link error during creation of `liborasdkbase.so.10.2`. The following error message is thrown:

```
INFO: gcc:
INFO: /usr/lib/libstdc++.so.5: No such file or directory
INFO:
INFO: $OH/bin/genorasdksh: Failed to link liborasdkbase.so.10.2
```

This is because Oracle Database 10g release 2 (10.2) requires Red Hat Enterprise Linux 3.0 libraries (`/usr/lib/libstdc++.so.5`).

**Workaround:** Install the compatible libraries as follows:

```
rpm -q1 compat-libstdc++-33-3.2.3-47.3
```

This issue is tracked with Oracle bug 4605635.

## 7.6 Removing Metrics for Wait Classes Removes Them Permanently

Do not remove the key values for the wait class metrics. Doing so removes them permanently and currently there is no easy way to recover them.

This issue is tracked with Oracle bug 4602952.

## 7.7 Interim Fix for the IBM XL C/C++ Advanced Edition V7.0 for Linux Runtime Environment Component

You must apply the interim Fix for the IBM XL C/C++ Advanced Edition V7.0 for Linux Runtime Environment Component after installing IBM XL C/C++ Advanced Edition V7.0 for Linux Runtime Environment Component and XL Optimization Libraries component from the following link:

[http://www.ibm.com/support/docview.wss?rs=2030&context=SSJT9L&context=SSENT9&context=SSEP5D&dc=D400&dc=D410&dc=D420&dc=D430&q1=Run-time+Environment+Component&uid=swg24007906&loc=en\\_US&cs=utf-8&lang=en](http://www.ibm.com/support/docview.wss?rs=2030&context=SSJT9L&context=SSENT9&context=SSEP5D&dc=D400&dc=D410&dc=D420&dc=D430&q1=Run-time+Environment+Component&uid=swg24007906&loc=en_US&cs=utf-8&lang=en)

This URL contains information and installation instructions about the interim fix. All the above installations must to be done before installing Oracle database.

If the interim fix is not available (for example, if update ptf is available) then you need not apply the interim fix.

This issue is being tracked with Oracle bug 4712830.

## 7.8 Using the org.w3c.dom.ls Package With IBM JDK 1.4.2

When using IBM JDK 1.4.2 to build an application that uses the `org.w3c.dom.ls` package, the following errors might be thrown:

```
cannot resolve symbol
symbol  : method getConfig ()
location: interface org.w3c.dom.ls.LSParser
```

Or

```
cannot resolve symbol
symbol  : method getConfig ()
location: interface org.w3c.dom.ls.LSSerializer
```

To resolve these errors, the application should be built using the `-J-Djava.endorsed.dirs=$ORACLE_HOME/endorsed` command line option of the Java compiler.

For example:

```
javac -J-Djava.endorsed.dirs=$ORACLE_HOME/endorsed Test.java
```

Additionally, the application should be run using the `-Djava.endorsed.dirs=$ORACLE_HOME/endorsed` command line option of Java.

For example:

```
java -Djava.endorsed.dirs=$ORACLE_HOME/endorsed Test
```

## 8 Documentation Accessibility

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