

Oracle® Database

Release Notes

10g Release 2 (10.2) for AIX

B19074-10

September 2008

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, 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.

Note: The Database Quick Installation Guides are no longer available in printed format. These documents are available with the media in the same location as the software and on Oracle Technology Network.

This document contains the following topics:

- [Certification Information](#)
- [Unsupported Products](#)
- [Software Contents on Installation Media](#)
- [Preinstallation Requirements](#)
- [Installation, Configuration, and Upgrade Issues](#)
- [Other Known Issues](#)
- [Documentation Corrections and Additions](#)
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1 Certification Information

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

<http://metalink.oracle.com>

JDK 5 Certification

Starting with Oracle Database 10g release 2 (10.2.0.2), JDK 5 is supported for JDBC applications.

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AIX 6.1 Certification

Starting with Oracle Database 10g release 2 (10.2.0.3), AIX 6.1 (64 bit) operating system is supported. Refer to "[Preinstallation Requirements](#)" for more information

The latest information on patches and support for this release is available in Oracle*MetaLink* document 282036.1.

ODBC Certification

Starting with Oracle Database 10g release 2 (10.2.0.4), ODBC driver is supported on AIX operating systems.

2 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.
- JDBC 1.2 driver
JDBC 1.2 driver is not supported on AIX 5.3
- Radius with the CHAP protocol
- Network Attached Storage (NAS) Devices

3 Software Contents on Installation Media

The following products and documentation are located on the first DVD:

- Oracle Database 10g release 2 (10.2) software and documentation
- Oracle Database Companion Products 10g release 2 (10.2) software and documentation
- Oracle Database 10g release 2 (10.2) Documentation Library

The following products and documentation are located on the second DVD:

- Oracle Clusterware 10g release 2 (10.2) software and documentation
- Oracle Database Client 10g release 2 (10.2) software and documentation
- Oracle Gateway 10g release 2 (10.2) software and documentation
- Oracle Database 10g release 2 (10.2) Documentation Library

4 Preinstallation Requirements

In addition to the information in the installation guides, the following section contains the system requirements for AIX 6.1.

You must review the following sections before installing Oracle Database on AIX 6L:

- [Operating System Requirement](#)

- [Operating System Filesets for AIX 6L](#)
- [Oracle Installations](#)

4.1 Operating System Requirement

In addition to the supported operating systems listing in the installation guide, AIX 6L, version 6.1, 64-bit kernel is supported with service pack 01 (6100-00-01) or later.

Refer to *Oracle Database Installation Guide for AIX 5L Based Systems (64-Bit)* for additional information on operating system listings.

4.2 Operating System Filesets for AIX 6L

The following filesets are supported on Oracle Database 10g release 2:

- `bos.adt.base`
- `bos.adt.lib`
- `bos.adt.libm`
- `bos.perf.libperfstat`
- `bos.perf.perfstat`
- `bos.perf.proctools`
- `xlC.aix61.rte:9.0.0.1`
- `xlC.rte:9.0.0.1`

4.3 Oracle Installations

Installing on AIX 6L requires the following installations:

- Oracle patch 6613550
- Oracle Database 10g release 2 (10.2.0.1)
- Oracle Database patch set 10g release 2 (10.2.0.3)

5 Installation, Configuration, and Upgrade Issues

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

- [Latest Upgrade Information](#)
- [Operating System Kernel Required for Oracle RAC](#)
- [Oracle RAC Support](#)
- [Upgrading of Oracle9i to Oracle Database 10g Release 2 on Raw Devices](#)
- [Installing Enterprise Security Manager](#)
- [Upgrading Oracle Cluster Ready Services \(CRS\) from Release 10.1.0.2](#)
- [Installing Standard Edition on Automated Storage Management \(ASM\)](#)
- [extjob Executable Required Directory Permissions](#)
- [Modifying a Virtual IP Address Node Application](#)

- [Rootpre_aix.zip](#) file location
- [Installing Oracle Database on AIX 6.1](#)
- [Installing Oracle Database Client into an Existing Oracle Home](#)
- [Database Installation Types](#)

5.1 Latest Upgrade Information

For late-breaking updates and best practices about preupgrades, postupgrades, compatibility, and interoperability discussions refer to note 466181.1 on *OracleMetaLink* (<https://metalink.oracle.com/>) that links to "10g Upgrade Companion" page.

5.2 Operating System Kernel Required for Oracle RAC

Oracle RAC on AIX 5.3 requires a 64-bit kernel. Refer to *OracleMetaLink* Note 169426.1 for instructions for switching between the 32-bit and 64-bit AIX kernels.

5.3 Oracle RAC Support

The list of supported installation options and supported storage types for Oracle Clusterware, Oracle RAC, and vendor clusterware are described in this section. Oracle plans to support additional Oracle Clusterware and Oracle RAC configurations in the future. Please check for updates to this document for the latest list of supported installation scenarios on the OTN Web site at:

<http://www.oracle.com/technology/documentation/>

Note: Environment variables `TMP` and `TMPDIR` should not point to a shared file system. These variables must point to a local file system. Similar behavior exists in Oracle Database 10g release 1. This issue is tracked with Oracle bug 4553122.

5.4 Upgrading of Oracle9i to Oracle Database 10g Release 2 on Raw Devices

Use the following upgrade process if the database files are created on plain raw devices not using Logical Volume Manager (LVM). These steps are needed due to the skip offset differences between Oracle9i release 2 and Oracle Database 10g release 2. The skip offset for Oracle9i release 2 is 4k bytes. Starting with Oracle Database 10g release 2, the skip offset is 0 bytes.

1. Back up the database.
2. Back up each of the database file on the plain raw disks to a file using following command:

```
# dd if=db_disk_name of=backup_file_name bs=512 skip=8
```
3. Restore the backed up database file to the disk using following commands:

```
# dd if=backup_file_name of=db_disk_name bs=512
```
4. Follow the manual upgrade steps documented in Oracle Database Upgrade Guide.

5.5 Installing Enterprise Security Manager

To install Oracle Security Manager, install Oracle Client and then select the Administrator installation type.

5.6 Upgrading Oracle Cluster Ready Services (CRS) from Release 10.1.0.2

This section lists the additional steps required when running the `preupdate` and `rootupgrade` scripts:

- When upgrading Oracle Cluster release 10.1 to 10.2, run the following command as the `root` user after running the `preupdate.sh` script and then complete the Oracle Clusterware release 10.2 installation:

```
/usr/sbin/slibclean
```

- When upgrading Oracle Clusterware release 10.1.0.2, activate the volume group before running the `rootupgrade` script. Use the following command to activate the volume group:

```
/usr/sbin/vgchange -a s vg1
```

where `vg1` is the volume group that stores the OCR and voting disks.

5.7 Installing Standard Edition on Automated Storage Management (ASM)

When installing Standard Edition and the starter database on Oracle Automated Storage Management (ASM), the **Email enabled notification** check box on the Select Database Management Option page is disabled.

This issue is tracked with Oracle bug 4553151.

5.8 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`.

5.9 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 `srvctl modify nodeapps` command 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.

5.10 Rootpre_aix.zip file location

If you have downloaded Oracle Database 11g release 1 prior to January 18, 2008 from Oracle Technology Network or media and were prompted to execute the `rootpre.sh` script, then you must install the `rootpre_aix.zip` file available on Oracle Technology Network:

http://download.oracle.com/otn/aix/oracle11g/rootpre_aix.zip

New customers do not have to download the `rootpre_aix.zip` file. You can directly download the Oracle Database 11g release 1 software available on Oracle Technology Network:

http://www.oracle.com/technology/software/products/database/oracle11g/111060_aixsoft.html

5.11 Installing Oracle Database on AIX 6.1

You must install Oracle Database Patch 6613550, Oracle Database 10.2.0.1, and Oracle Database Patch set 10.2.0.3 to proceed with the installation on AIX 6L. The following section lists all the installation steps:

1. Download patch 6613550:

- a. Log on to *OracleMetaLink*. You must have a valid *OracleMetaLink* Support Identifier (CSI) for it. Refer to <https://metalink.oracle.com/> for more information.
- b. Enter 6613550 in the **Quick Find** field, click **Go**.
- c. Download patch 6613550 into a temporary directory on your computer.
- d. Switch user to root:

```
$ su -  
password:  
#
```

- e. Unzip the files of this patch into `/temp` folder:

```
cd /temp
```

- f. Run the `rootpre.sh` script as follows:

```
# ./rootpre.sh
```

2. Set the `LANG` parameter to `C` for the remaining steps, as follows:

- Bourne shell (sh), or Korn shell (ksh), or Bash shell (bash):

```
$LANG=C
```

- C shell (csh):

```
% setenv LANG C
```

3. Install Oracle Database 10.2.0.1:

- a. Run Oracle Universal Installer with `-ignoreSysPrereqs` option:

```
$ ./runInstaller -ignoreSysPrereqs
```

- b. In the Select Installation Type screen, select Enterprise Edition installation type.
- c. In the Product-specific Prerequisites Checks page, check the following errors as **user specified** to continue with the installation:
 - Checking operating system requirements
 - Checking recommended operating system patches

- d. In the Select Configuration Option screen, select Install Database Software only option.
4. To install Patch Set Release 10.2.0.3, run Oracle Universal Installer with `-ignoreSysPrereqs` option as follows:

```
$ ./runInstaller -ignoreSysPrereqs
```

You must refer to patch set release note for preinstall, install, postinstall, and other known issues. Refer to metalink note 316900.1 for more information.

5. Create a database:
 - a. Run Oracle Database Configuration Assistant as follows:

```
$ORACLE_HOME/bin/dbca
```
 - b. Select General Purpose Database to create a starter database.

Note: If `Lang=Ja_JP`, then Enterprise Manager Database Control fails to configure. To reconfigure Enterprise Manager Database Control, use the following steps:

- % `export LANG=C`
 - % `emca -deconfig dbcontrol db`
 - % `emca -repos drop`
 - % `emca -repos create`
 - % `export ORACLE_HOSTNAME=hostname`
 - % `emca -config dbcontrol db`
 - % `emctl start dbconsole`
-
-

This issue is tracked with the Oracle bugs 4711923, 6278227, 4997291.

5.12 Installing Oracle Database Client into an Existing Oracle Home

Oracle Database Client can be installed in the same Oracle Database home if both products are at the same release level. For example, you can install Oracle Database Client 10g Release 2 (10.2) into an existing Oracle Database 10g Release 2 (10.2) home. If you apply a patch set before installing the client, then you must apply the patch set again.

5.13 Database Installation Types

If you perform a Custom installation, then ensure that you install only the components covered by your license. You can not install Standard Edition using Custom installation.

6 Other Known Issues

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

- [Performance Issues with Generic Connectivity](#)

- [Importing a User Certificate Into Oracle Wallet Using Oracle Wallet Manager](#)
- [Removing Metrics for Wait Classes Removes Them Permanently](#)
- [Hitachi HDLM for Storage](#)

6.1 Performance Issues with Generic Connectivity

There is a performance issue with Generic Connectivity (`hsodbc`). On the first query of a new connection, there could be significant delay up to several minutes. All subsequent SQL issued through the same `dblink` session will proceed without delay.

Check Oracle bug 4549924 for patch availability.

6.2 Importing a User Certificate Into Oracle Wallet Using Oracle Wallet Manager

Oracle Wallet Manager will fail to recognize the user certificate as valid if you capture the user certificate contents from the Oracle Certificate Authority site and save this as a flat file. This is because when saving as a flat file, all the lines of the user certificate are run together with no line breaks.

Workaround: Edit the user certificate. Insert a new line after `-----BEGIN CERTIFICATE-----` and a new line before `-----END CERTIFICATE-----`.

6.3 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.

6.4 Hitachi HDLM for Storage

If you use Hitachi HDLM (`dmlf` devices) for storage, then automatic storage instances do not automatically identify the physical disk. Instead, the instances identify only the logical volume manager (LVM). This is because the physical disks can only be opened by programs running as root.

Physical disks have path names similar to the following:

- `/dev/rdlmfdrv8`
- `/dev/rdlmfdrv9`

7 Documentation Corrections and Additions

This section lists the following corrections to the installation guides for AIX 5L-based Systems (64-Bit):

- In *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Installation Guide*, Chapter 2, "Preinstallation," in the section "Oracle Clusterware Home Directory," it incorrectly lists the path `/u01/app/oracle/product/crs` as a possible Oracle Clusterware home (or CRS home) path. This is incorrect. A default Oracle base path is

/u01/app/oracle, and the Oracle Clusterware home must never be a subdirectory of the Oracle base directory.

A possible CRS home directory is in a path outside of the Oracle base directory. For example, if the Oracle base directory is `u01/app/oracle`, then the CRS home can be an option similar to one of the following:

```
u01/crs/  
/u01/crs/oracle/product/10/crs  
/crs/home
```

This issue is tracked with Oracle bug 5843155.

- The following text of the section 2.6.1, "IP Address Requirements," in Chapter 2, "Pre-Installation Tasks," of *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Installation Guide* states that the virtual IP address (VIP) should respond to a `ping` command:

During installation, Oracle Universal Installer uses the `ping` command to ensure that the VIP is reachable.

The preceding statement is incorrect. Before installation, the VIP address should be configured in DHCP or `/etc/hosts`, or both, but it must not be assigned to a server that can respond to a `ping` command.

This issue is tracked with Oracle bug 6017001.

- Appendix H, "Database Limits" of *Oracle Database Administrator's Reference for UNIX-Based Operating Systems* states the incorrect maximum value (63) for the `MAXINSTANCES` variable. The correct maximum limit for the variable is 1055.
- The following values documented in the section 2.2.3, "Disk Space Requirements," in Chapter 2, "Pre-Installation Tasks," of *Oracle Database Installation Guide for AIX 5L Based Systems (64-Bit)* is incorrect. The updated values are as follows:

Enterprise Edition 3.82 GB

Standard Edition 3.78 GB

Custom Install 3.95 GB

- In Oracle documentation, Oracle inventory group is represented as `oinstall`. However, it is not mandatory to use the same name, you can enter a different name for this group.
- In section 7, bullet 9, "Configuring the Oracle User's Environment" in *Oracle Database Client Quick Installation Guide for 10g Release 2 (10.2) AIX 5L Based Systems (64-Bit)*, the document says:

Add one of the following lines to the file to set the `AIXTHREAD_SCOPE` environment variable to `S` (system-wide thread scope):

- Bourne shell (`sh`), Bash shell (`bash`), or Korn shell (`ksh`):

```
AIXTHREAD_SCOPE=S; export AIXTHREAD_SCOPE
```

- C shell (`csh` or `tcsh`):

```
setenv AIXTHREAD_SCOPE S
```

This is incorrect. You don't need to set `AIXTHREAD_SCOPE` environment variable to `S`.

This issue is tracked with Bug 7243007.

8 Documentation Accessibility

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