

Oracle® Database

Release Notes

10g Release 2 (10.2) for HP-UX Itanium

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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, 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 My Oracle Support (formerly Oracle*MetaLink*) at:

<http://support.oracle.com>

HP 11.31 Certification

Starting with Oracle Database 10g release 2 (10.2.0.2), in addition to the supported operating systems listing in the installation guide, HP-UX 11i v3 (11.31) is supported.

See Also: *Oracle Database Installation Guide for hp-ux Itanium* for additional information on operating system listings.

Refer to "[Preinstallation Requirements](#)" on page 2 for the list of patches, and compilers supported on Oracle Database 10g release 2.

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.
- Radius with the CHAP protocol
- Oracle ODBC Driver
- Transparent Gateways
- Procedural Gateways

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 Database 10g release 2 (10.2) Documentation Library

4 Preinstallation Requirements

In addition to the information in the installation guides, the following sections contain the system requirements for HP-UX 11.31:

- [Operating System Filesets for HP-UX 11.31](#)
- [Compiler Requirements](#)
- [Oracle Messaging Gateways](#)
- [Java Development Kit](#)

- [ncsize Kernel Parameter](#)

4.1 Operating System Filesets for HP-UX 11.31

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

- PHKL_35900: 11.31 evacd performance, kvaddr leak panic
- PHKL_36248: 11.31 esctl cumulative patch
- PHKL_36249: 11.31 esdisk cumulative patch
- PHKL_35936: 11.31 call to read(2) or write(2) may incorrectly return -1

4.2 Compiler Requirements

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

- A.06.12 (HP C/aC++ Swlist Bundle - C.11.31.01) - February 2007 A.06.12 is the certified C++ Compiler and A.06.12 (HP C/aC++ Swlist Bundle - C.11.31.01) - February 2007 A.06.12.
- HP FORTRAN/90 - Feb 2007 is the certified compiler on Fortran 90

4.3 Oracle Messaging Gateways

Oracle Messaging Gateway supports the integration of Oracle Streams Advanced Queuing (AQ) with the following software:

- MQ Series 6 6.0

4.4 Java Development Kit

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

- HP JDK 1.4.2.07
- HP JDK 5.0.05
- HP JDK 1.3.1.16 IPF Edition

4.5 ncsiz Kernel Parameter

For Oracle Database 10g release 2 (10.2), the recommended formula for calculating the ncsiz kernel parameter is $(8 * nproc + 3072)$.

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](#)
- [Adding a Node to a Shared Oracle Clusterware Configuration](#)
- [Installing Enterprise Security Manager](#)
- [Upgrading Cluster Ready Services \(CRS\) from Release 10.1.0.2](#)
- [extjob Executable Required Directory Permissions](#)

- [Modifying a Virtual IP Address Node Application](#)
- [Network Attached Storage for Oracle RAC Databases](#)
- [Oracle HTML DB Cannot be Installed](#)
- [Installing Oracle Database Client into an Existing Oracle Home](#)
- [Database Installation Types](#)
- [Oracle Storage Compatibility Program Obsolete](#)

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 My Oracle Support (formerly *OracleMetaLink*) (<https://support.oracle.com/>) that links to "10g Upgrade Companion" Page.

5.2 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.

5.3 Installing Enterprise Security Manager

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

5.4 Upgrading Cluster Ready Services (CRS) from Release 10.1.0.2

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

```
vgchange -a s vg1
```

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

5.5 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`.

5.6 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.

5.7 Network Attached Storage for Oracle RAC Databases

NAS is supported on HP 11.23 as a shared storage for Oracle RAC. To use NAS as a shared storage for RAC, apply the PHNE_32055 patch.

5.8 Oracle HTML DB Cannot be Installed

The version of Oracle HTML DB on HP-UX Itanium included in 10.2.x cannot be installed. The latest version of Oracle HTML DB (now called Oracle Application Express) should be downloaded from the Oracle Technology Network at http://www.oracle.com/technology/products/database/application_express/download.html.

5.9 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.

5.10 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.

5.11 Oracle Storage Compatibility Program Obsolete

Oracle Storage Compatibility Program (OSCP) is no longer valid. Disregard any content about OSCP in the *Oracle Database Installation Guide for hp-ux Itanium*.

6 Other Known Issues

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

- [Cluster Verification Utility](#)
- [Importing a User Certificate Into Oracle Wallet Using Oracle Wallet Manager](#)
- [Removing Metrics for Wait Classes Removes Them Permanently](#)
- [Service Failure Over the Network](#)
- [MAX_IDLE_BLOCKER_TIME Does Not Work in Oracle RAC Environment](#)
- [Oracle Universal Installer Warnings](#)
- [Remote Copy Error](#)
- [Vendor Clusterware Restrictions for Node Names](#)

6.1 Cluster Verification Utility

Review the following topics before using Cluster Verification Utility:

Check Kernel Parameter Settings

CVU does not check kernel parameter settings.

This issue is tracked with Oracle bug 4565046.

Raw Devices Shared Storage

Cluster Verification Utility validates the readiness of a cluster to install Oracle Clusterware and RAC, and create databases. It also helps verify the integrity of individual cluster components. CVU does not discover raw disks, or perform shared checks for raw disks.

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

Oracle Wallet Manager fails 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 Service Failure Over the Network

To tolerate a complete public network failure, services must be specified in the `/etc/nsswitch.conf` file. If the services are not specified in this file, you will be dependent on the network timeouts. For example, VIP failover could happen after the network/system timeouts.

This issue is tracked with Oracle bug 5988744.

6.5 MAX_IDLE_BLOCKER_TIME Does Not Work in Oracle RAC Environment

Setting a value for `MAX_IDLE_BLOCKER_TIME` feature of Resource manager does not work as expected in Oracle RAC environment.

Workaround: Set a value for `MAX_IDLE_TIME` instead of setting a value for `MAX_IDLE_BLOCKER_TIME`.

This issue is tracked with Oracle bug 6114355.

6.6 Oracle Universal Installer Warnings

If you encounter the following Oracle Universal Installer warning when you are installing Oracle Database 10g release 2, then you can ignore them:

- If you have installed a compiler version later than the one listed in Oracle database prerequisite checks, then the Oracle Universal Installer displays a non compatibility warning message. This message can be ignored, if the newer versions of the compilers installed are displayed on the vendors site.
- ANSI/C is one of the certified compiler for Pro* C/C++, Oracle Call Interface, Oracle C++ Call Interface and Oracle Xml Developers Kit. If you have installed other certified compilers, then you can ignore the warning message.

6.7 Remote Copy Error

When you upgrade Oracle Clusterware 10g Release 2 (10.2.0.4) to Oracle Clusterware 11g Release 1 (11.1.0.6), some of the directory transfer to remote nodes may fail.

Workaround: Execute the following commands on all nodes after installing Oracle Clusterware 10.2.0.4 and before installing Oracle Clusterware 11.1.0.6:

```
mv $OH/jdk/jre/javaws/javaws $OH/jdk/jre/javaws/javaws.orig
ln -s $OH/jdk/jre/javaws/javaws.orig $OH/jdk/jre/javaws/javaws
```

After running `preupdate.sh` on the nodes to be upgraded, perform the following steps on each node before installing Oracle Clusterware 11.1.0.6:

1. Check if `$ORACLE_HOME/lib/libskgxn2.so` is link or real file
2. If `$ORACLE_HOME/lib/libskgxn2.so` is a link, then perform the following:
 - `cp libskgxn2.so libskgxn2.so.tmp`
 - `rm libskgxn2.so`
 - `mv libskgxn2.so.tmp libskgxn2.so`

If `$ORACLE_HOME/lib/libskgxn2.so` is a real file, then no action is required.

3. Repeat steps 1 and 2 for `$ORACLE_HOME/lib32/libskgxn2.so`

This issue is tracked with Oracle bug 6941657.

6.8 Vendor Clusterware Restrictions for Node Names

If you use a vendor clusterware with Oracle Clusterware and Oracle Real Application Clusters, then you must use the node names and host names registered with that vendor clusterware you have installed.

7 Documentation Corrections and Additions

This section lists the following corrections to the installation guides for HP-UX Itanium:

- In *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Installation Guide*, Chapter 1, in the section "Cloning Oracle Clusterware

Homes," Step 4, you are requested to uncompress the Oracle Clusterware tar file as `root`. Instead, you should uncompress the tar file as the `oracle` user.

This issue is tracked with Oracle bug 5732852.

- 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.
- In *Oracle HTTP Server Administrator's Guide*, the instructions are missing to set the `PERL5LIB` variable to include `$ORACLE_HOME/perl/lib/5.6.1/IA64.ARCHREV_0` before running the `dadTool.pl` tool. Before running the tool, ensure that the variable is set appropriately.
- 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 the group.
- Appendix B, "Large Memory Allocations and Oracle Database Tuning" of *Oracle Database Administrator's Reference for UNIX-Based Operating Systems* guide incorrectly states the default value for `CURSOR_SPACE_FOR_TIME` initialization parameter as `true`. The correct default value for `CURSOR_SPACE_FOR_TIME` initialization parameter is `false`.

This issue is tracked with Oracle bug 5333050.

- Appendix H, "Database Limits" of *Oracle Database Administrator's Reference for UNIX-Based Operating Systems* guide states incorrect value for control files as

20000 database blocks. The correct value is 25000 control file blocks with a block size of 4096 bytes.

This issue is tracked with Oracle bug 9437136.

8 Documentation Accessibility

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