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
- Documentation Accessibility

1 Certification Information

The latest certification information for Oracle Database 10g Release 2 (10.2) is available on My Oracle Support (formerly OracleMetaLink) 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.
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
- ncszie 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 ncszie Kernel Parameter
For Oracle Database 10g Release 2 (10.2), the recommended formula for calculating the
ncsize 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 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
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 from Release 10.1.0.2
When upgrading Cluster Ready Services 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 Oracle 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/technetwork/developer-tools/apex/downloads/index.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 cannot 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 Oracle 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 vendor 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 for HP-UX*, 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.

A possible Oracle Clusterware 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 Oracle Clusterware home can be an option similar to one of the following:

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

- In *Oracle Database Oracle Clusterware and Oracle Real Application Clusters Installation Guide for HP-UX*, Chapter 2, "Pre-Installation Tasks," section 2.6.1, "IP Address Requirements," the following text 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.

- In *Oracle Database Administrator’s Reference for UNIX-Based Operating Systems*, Appendix H, "Database Limits," 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 Database 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.

- In *Oracle Database Administrator’s Reference for UNIX-Based Operating Systems*, Appendix B, "Large Memory Allocations and Oracle Database Tuning," 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`.

- In *Oracle Database Administrator’s Reference for UNIX-Based Operating Systems*, Appendix H, "Database Limits," 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.

- In *Oracle Database Installation Guide for HP-UX Itanium*, Chapter 4, section, "Installing Oracle Database 10g Products from the Companion CD," erroneously states that JPublisher and Oracle SQLJ are installed. The correct information is that JPublisher is not a part of Companion CD and Oracle SQLJ Demos are installed with the Companion CD instead of Oracle SQLJ.

- In *Oracle Database Companion CD Installation Guide for HP-UX PA-RISC (64-Bit)*, Chapter 1, section, "Products Available in the Oracle Database 10g Products Installation Type," erroneously states that JPublisher and Oracle SQLJ are installed. The correct information is that JPublisher is not a part of Companion CD and Oracle SQLJ Demos are installed with the Companion CD instead of Oracle SQLJ.

---

**Note:** The SQLJ Demos are installed if Oracle SQLJ was installed before running the Companion CD installation.
8 Documentation Accessibility

For information about Oracle’s commitment to accessibility, visit the Oracle Accessibility Program website at

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.