Oracle® Database

Release Notes

10*g* Release 2 (10.2) for HP-UX PA-RISC (64-Bit)

B19067-07

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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.

This document contains the following topics:

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

1 Certification Information

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

`http://metalink.oracle.com`

2 Unsupported Products

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

- Grid Control Support

Oracle Database 10*g* release 2 (10.2) can be managed as a target by Grid Control 10.1.0.4. However, Oracle Database 10*g* release 2 is not supported by Grid Control 10.1.0.4 as a repository.

- Radius with the CHAP protocol
- Network Attached Storage (NAS) Devices

  Network Attached Storage (NAS) Devices are not supported on HP-UX 11.11
- Oracle ODBC Driver
- Hyper-Messaging Protocol (HMP) is not supported for Oracle Clusterware and RAC 10g release 2.

3 Preinstallation Requirements

Refer to the installation guides for the preinstallation requirements.

4 Documentation Corrections and Additions

This section lists the following corrections to the installation guides for HP-UX PA-RISC (64-Bit):

- 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 incorrct maximum value (`63`) for the `MAXINSTANCES` variable. The correct maximum limit for the variable is `1055`.

5 Software Contents on Installation Media

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

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

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

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

6 Installation, Configuration, and Upgrade Issues

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

- Oracle Real Application Clusters (RAC) Support
- 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 RAC Databases

6.1 Oracle Real Application Clusters (RAC) Support

The list of supported installation options and supported storage types for Oracle Clusterware, Oracle Real Application Clusters, and vendor clusterware are described in this section. Oracle plans to support additional Oracle Clusterware and 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: NAS is supported on HP-UX 11.23 only.

6.2 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.

6.3 Installing Enterprise Security Manager

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

6.4 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.

6.5 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`.

6.6 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.

6.7 Network Attached Storage for RAC Databases

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

7 Other Known Issues

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

- Cluster Verification Utility
- Importing a User Certificate Into Oracle Wallet Using Oracle Wallet Manager
- Patch for libc:siglongjmp()

- Removing Metrics for Wait Classes Removes Them Permanently
- Service Failure Over the Network
- MAX_IDLE_BLOCKER_TIME Does Not Work in Oracle RAC Environment

7.1 Cluster Verification Utility

Review the following topics before using Cluster Verification Utility.

Third Party Clusterware

If the deployment environment does not use ServiceGuard, ignore the ServiceGuard version, ServiceGuard extension version, and patch PHSS_32732 errors reported by Cluster Verification Utility (CVU).

On HP-UX 11.11:

- M/C service guard 11.16.00 :: ServiceGuard A.11.16.00
- Clusterware patches: PHSS_32732, ServiceGuard Extension for RAC Bundle A.11.16.00 :: SG-NMAPI, A.11.16.00

On HP-UX 11.23:

- M/C service guard 11.16.00
- Clusterware Patches: PHSS_32740, ServiceGuard Extension for RAC Bundle A.11.16.00

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.

Note: Cluster Verification Utility will not provide formatted output for the GoldApps patches. It will list the individual patches in a single line.

7.2 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-----`.

7.3 Patch for libc:siglongjmp()

Oracle recomends that you use the PHCO_33711 patch for the JAGaf71110 defect. Contact HP support to get this patch.

7.4 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.

7.5 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.

7.6 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.

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