Oracle® Database

Release Notes

11*g* Release 1 (11.1) for IBM AIX on POWER Systems

B32075-13

April 2011

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*.

This document 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/technetwork/indexes/documentation/index.html`

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
- Preinstallation Requirements
- Software Contents in the Installation Media Pack
- Installation, Configuration, and Upgrade Issues
- Other Known Issues
- Documentation Corrections and Additions
- Documentation Accessibility

1 Certification Information

The latest certification information for Oracle Database 11*g* Release 1 (11.1) is available on My Oracle Support (formerly Oracle*MetaLink*) at:

`https://support.oracle.com`

AIX 6.1 Certification

AIX 6.1 (64-bit) is supported on Oracle Database 11*g* Release 1 (11.1.0.6). Refer to Preinstallation Requirements on page 2 for more information.

ODBC Certification

Starting with Oracle Database 11*g* Release 1 (11.1.0.6), Oracle ODBC driver is supported on AIX. ODBC driver uses `gcc 3.4.5` for compilation instead of the native compilers on AIX operating systems.

2 Unsupported Products

A list of unavailable features and products is available in Section 2, "Features Not Available or Restricted in This Release", in *Oracle Database Readme*.

3 Preinstallation Requirements

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

- Operating System Requirement
- Operating System Filesets for AIX 6L
- Swap Space Guidance

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 04 or later.

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

Operating System Filesets for AIX 6L

The following filesets are required for Oracle Database 11*g* Release 1 (11.1):

- `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` or later
- `xlC.rte:9.0.0.1` or later

Swap Space Guidance

Contact your operating system vendor for swap space allocation guidance for your server. The vendor guidelines supersede the swap space requirements listed in *Oracle Database Installation Guide* and *Oracle Grid Infrastructure Installation Guide*.

4 Software Contents in the Installation Media Pack

The media pack for this release consists of the following DVDs:

- Oracle Database 11*g* Release 1 (11.1.0.6.0) for AIX 5L Based Systems (64-Bit) - This DVD contains the Oracle Database software, Oracle Database Installation Guide, Oracle Database Quick Installation Guide, and Oracle Database Release Notes for this platform.
- Oracle Database 11g Release 1 Client (11.1.0.6.0) for AIX 5L Based Systems (64-Bit) - This DVD contains the Oracle Database Client software, Oracle Database Client Installation Guide, Oracle Database Client Quick Installation Guide, and Oracle Database Release Notes for this platform.
- Oracle Clusterware 11g Release 1 (11.1.0.6.0) for AIX 5L Based Systems (64-Bit) - This DVD contains the Oracle Clusterware software, Oracle Cluster Installation Guide, Oracle Real Application Clusters Installation Guide, and Oracle Database Release Notes for this platform.
- Oracle Database Documentation Library (11.1.0.6.0) - This DVD contains the documentation library for Oracle Database 11*g*.

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
- New Installation Media to Install Oracle HTTP Server
- Error in Copying Files While Upgrading Oracle Database 10g Release 2 to Oracle Database 11g
- Restarting the Listener for the Remote Node Displays an Error
- The /etc/oratab File Lists Multiple Automatic Storage Management Instances
- Rootpre_aix.zip File Location
- Oracle Clusterware Upgrade Error

5.1 Latest Upgrade Information

For late-breaking updates and best practices about preupgrade, post-upgrade, compatibility, and interoperability discussions, refer to Note 601807.1 on My Oracle Support (formerly Oracle*MetaLink*) (`https://support.oracle.com`) that links to "Oracle 11gR1 Upgrade Companion" page.

5.2 New Installation Media to Install Oracle HTTP Server

Use the Oracle Fusion Middleware Web Tier Utilities 11*g* (11.1.1.2.0) media to install Oracle HTTP Server.

5.3 Error in Copying Files While Upgrading Oracle Database 10*g* Release 2 to Oracle Database 11*g*

When you start upgrading second node from Oracle Database 10*g* Release 2 to Oracle Database 11*g*, an error message is displayed while copying files during the upgrade process.

Workaround: Run the upgrade session from the node on which you initially installed Oracle RAC.

This issue is tracked with Oracle bug 6501871.

5.4 Restarting the Listener for the Remote Node Displays an Error

Oracle database instance and listeners are not started after the installation is complete if you perform any of the following tasks:

- Oracle 11*g* Database installation or upgrade on a cluster into an existing `ORACLE_BASE` directory that has other Oracle home(s)
- Custom installation to install additional components in an existing Oracle RAC database home on Oracle Clusterware

You can run the *`Oracle_home`*`/bin/srvctl` command to display the status of Oracle database instance and listeners. When you try to start the listener for the remote node, the following error message is displayed:

```
TNS-01151: Missing listener name, LISTENER_NODE_NAME, in LISTENER.ORA
```

Workaround: Complete the following procedure for the remote node(s) on which the listener displayed an error message:

1. Note the list of nodes on which the additional component installation is being performed. Write down the list of nodes selected in the Node Selection Page in Oracle Universal Installer.
2. For each node selected in step 1, use the following command to backup *`Oracle_home`*`/network/admin` to *`Oracle_home`*`/network/admin.orig` before proceeding with the installation:

   ```
   $ cp -R Oracle_home/network/admin Oracle_home/network/admin.orig
   ```

3. For each node selected in step 1, use the following command to restore *`Oracle_home`*`/network/admin.orig` to *`Oracle_home`*`/network/admin` after completing the installation:

   ```
   $ cp -R Oracle_home/network/admin.orig Oracle_home/network/admin
   ```

4. Run the following command on local node for each nodes selected in step 1:

   ```
   $ Oracle_home/bin/srvctl start listener -n node_name
   ```

5. If the Oracle Database instance for the remote node is down because of the listener, then start the Oracle database an instances that are down using the following command:

   ```
   $ Oracle_home/bin/srvctl start databse -d database_name
   ```

These issues are tracked with Oracle bugs 6412150 and 6612571.

5.5 The /etc/oratab File Lists Multiple Automatic Storage Management Instances

If you install Oracle Clusterware on share Oracle home, the `/etc/oratab` file lists multiple Automatic Storage instances.

Workaround: Oracle Universal Installer detects this issue during the pre-requisition checks. You can either edit the `/etc/oratab` file or ignore the error during installation.

The issue is tracked with Oracle bug 5942123.

5.6 Rootpre_aix.zip File Location

If you have downloaded Oracle Database 11*g* Release 1 before 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 11*g* release 1 software available on Oracle Technology Network:

`http://www.oracle.com/technetwork/database/enterprise-edition/downloads/index.html`

5.7 Oracle Clusterware Upgrade Error

When upgrading Oracle Clusterware from release 10.2.0.4 to release 11.1.0.6, the `rootupgrade` script gives the following error:

```
Failed to retrieve VIP details.
```

In addition, the output of `crs_stat -t` shows that the Oracle Notification Service resource is offline on one or more nodes.

Workaround:

Rename *`CRS_HOME`*`/jdk/jre/bin/sovvm` to *`CRS_HOME`*`/jdk/jre/bin/sovvm.bak` before running the the rootupgrade script.

This issue is tracked with Oracle bug 7034395.

6 Other Known Issues

The following sections contain information about issues related to Oracle Database 11*g* and associated products:

- Intermittent Errors While Using Oracle 11g Release 1 Direct NFS Client
- Performance Graphs are not Shown in the Memory Access Mode
- Reactivate the OC4JADMIN User for Oracle Ultra Search
- Oracle Clusterware Node Addition in Vendor Cluster Environment
- Missing Help Content When Running Assistants in a zh_TW Environment

- Oracle Database Configuration Assistant Fails to Re-register Oracle Database

6.1 Intermittent Errors While Using Oracle 11*g* Release 1 Direct NFS Client

When using Oracle 11*g* Release 1 Direct NFS client, the `ORA-494` errors are displayed intermittently under certain load conditions.

Workaround: Oracle recommends that you apply the patch mentioned in the Oracle bug 6530092 to Oracle Database 11*g* Release 1 installation. The Oracle bug contains the details of the patch and application instructions.

This issue is tracked with Oracle bug 6530092.

6.2 Performance Graphs are not Shown in the Memory Access Mode

Monitoring in Memory Access Mode is not supported for this release on this platform. This option is disabled by default. If you enable this option, then the performance charts are not displayed and an error connection to collector memory is displayed at times.

Workaround: Use SQL Mode monitoring instead of Memory Access Mode.

This issue is tracked with Oracle bug 6498439.

6.3 Reactivate the OC4JADMIN User for Oracle Ultra Search

The `OC4JADMIN` user is deactivated during the Oracle Database 11*g* installation process. After the installation is complete, you must modify the `$ORACLE_HOME/oc4j/j2ee/OC4J_SEARCH/config/system-jazn-data.xml` file. Replace the following content of the file:

```
<user deactivated="true">
<name>oc4jadmin</name>
<display-name>OC4J Administrator</display-name>
<description>OC4J Administrator</description>
```

with:

```
<user>
<name>oc4jadmin</name>
<display-name>OC4J Administrator</display-name>
<description>OC4J Administrator</description>
```

Use the following commands to restart the Oracle Ultra Search middle tier in the Oracle Database:

```
$ $ORACLE_HOME/bin/searchctl stop
$ $ORACLE_HOME/bin/searchctl start
```

6.4 Oracle Clusterware Node Addition in Vendor Cluster Environment

When adding a node to the Oracle Clusterware in a vendor cluster environment that uses host names with fully qualified domain names, the `rootaddnode.sh` utility displays the following error message:

```
PRKO-2006 : Invalid node name: NODE_NAME
```

Workaround: For each node that is being added to the Oracle Clusterware, run the following command:

```
srvctl add nodeapps -n node_name_without_fully_qualified_ domain_name -A
node-vip/netmask/Interfaces
```

Note: To find the node name and virtual IP address/netmask/interface to be used for the newly added nodes, you can refer to values set for the following variables in the `rootaddnode.sh` script:

```
CRS_NEW_NODE_NAME_LIST=
CRS_NEW_NODEVIPS=
NETMASK=
NETIFs=
```

To find if the vendor clusterware is configured, run the `$ORA_CRS_HOME/bin/lsnodes` command. The `lsnodes` command displays the list of nodes in this case.

You can refer to `rootaddnode.sh` for the value that `ORA_CRS_HOME` is set to.

This issue is tracked with Oracle bug 6617499.

6.5 Missing Help Content When Running Assistants in a zh_TW Environment

Due to a JDK bug, online help pages appear blank when running Java applications such as, Oracle Database Configuration Assistant or Oracle Database Upgrade Assistant in a `zh_TW` environment (Chinese, Taiwan locale).

This issue is tracked with Oracle bug 7408773.

6.6 Oracle Database Configuration Assistant Fails to Re-register Oracle Database

Due to an IBM JDK issue, Oracle Database Configuration Assistant fails to re-register Oracle Database with Oracle Internet Directory, resulting in one of the following error:

- `Wallet Exception - Could not open wallet - Check password`

  OR

- `Unable to create database entry in directory service - Wallet Exception - ArrayIndexOutOfBoundsException. error.`

Workaround: Make a copy of the Oracle Database Configuration Assistant script, then edit the last line of the script to pass `-Xjit:disableTreeSimplification` flag to Java command line.

This issue is tracked with Oracle bug 7443504

7 Documentation Corrections and Additions

This section lists the following correction to the installation guide for AIX:

- Incorrect Operating System Requirements

- Incorrect Control Size Value
- TAPE_ASYNCH_IO and BACKUP_TAPE_IO_SLAVES Correction

7.1 Incorrect Operating System Requirements

The "Operating System Requirements" section in chapter 2 of the *Oracle Database Installation Guide for AIX 5L Based Systems (64-Bit)*, lists incorrect value `AIX 5L version 5.3, TL 05, Service Pack 06`.

The correct value is `AIX 5L version 5.3, TL 05, Service Pack 06 or later`.

7.2 Incorrect Control Size Value

Appendix H, "Database Limits" of *Oracle Database Administrator's Reference for Linux and UNIX* guide states incorrect value for control files as 10000 database blocks. The correct value is 25000 control file blocks with a block size of 4096 bytes.

7.3 TAPE_ASYNCH_IO and BACKUP_TAPE_IO_SLAVES Correction

The last two paragraphs of Appendix A.2.4, "Input-Output Slaves" of *Oracle Database Administrator's Reference for Linux and UNIX* guide have been modified as follows:

There are times when you must turn off asynchronous I/O. For example, if instructed to do so by Oracle Support for debugging. You can use the `DISK_ASYNCH_IO` and `TAPE_ASYNCH_IO` parameters to switch off asynchronous I/O for disk or tape devices. `TAPE_ASYNCH_IO` support is only available when the Media Manager software supports it and for Recovery Manager, if `BACKUP_TAPE_IO_SLAVES` is true.

Set the `DBWR_IO_SLAVES` parameter to greater than 0 only if the `DISK_ASYNCH_IO` parameter is set to false. Otherwise, the database writer process becomes a bottleneck. In this case, the optimal value on AIX for the `DBWR_IO_SLAVES` parameter is 4.

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