

Oracle® Database

Release Notes

11g Release 2 (11.2) for IBM AIX on POWER Systems (64-Bit)

E23560-01

October 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>

This document contains the following topics:

- [Certification Information](#)
- [Latest Upgrade Information](#)
- [Unsupported Products](#)
- [Content Specific to Oracle Database 11g Release 2 \(11.2.0.1\)](#)
- [Content Specific to Oracle Database 11g Release 2 \(11.2.0.2\)](#)
- [Content Specific to Oracle Database 11g Release 2 \(11.2.0.3\)](#)
- [Documentation Accessibility](#)

1 Certification Information

The latest certification information for Oracle Database 11g Release 2 (11.2) is available on My Oracle Support (formerly *OracleMetaLink*) at:

<https://support.oracle.com>

2 Latest Upgrade Information

For late-breaking updates and best practices about preupgrade, postupgrade, compatibility, and interoperability discussions, refer to Note 785351.1 on My Oracle Support (formerly *OracleMetaLink*) that links to the "Oracle 11gR2 Upgrade Companion" page.

<https://support.oracle.com>

3 Unsupported Products

In addition to the items listed in Section 2, "Features Not Available or Restricted in This Release," in *Oracle Database Readme*, the following products or features are not supported:

- Oracle ACFS replication and tagging
- Oracle ACFS security and encryption

Database Smart Flash Cache Support

Database Smart Flash Cache is supported on Solaris and Oracle Linux only. For release 11.2.0.1 on Oracle Linux, you must install the 8974084 patch.

Oracle Automatic Storage Management Dynamic Volume Manager Support

Starting with Oracle Database 11g Release 2 (11.2.0.2), Oracle ACFS and Oracle ADVM are only supported on AIX PPC64 6.1 TL4 SP2 or later for AIX 6.1.

ASMLIB Support

ASMLIB is not supported.

4 Content Specific to Oracle Database 11g Release 2 (11.2.0.1)

The following content is specific to release 11.2.0.1:

- [Preinstallation Requirements for Release 11.2.0.1](#)
- [Installation, Configuration, and Upgrade Issues for Release 11.2.0.1](#)
- [Other Known Issues for Release 11.2.0.1](#)

4.1 Preinstallation Requirements for Release 11.2.0.1

Refer to the installation guides for the preinstallation requirements. Additional preinstallation requirements include the following.

- [Authorized Problem Analysis Reports in Installation Guides](#)

4.1.1 Authorized Problem Analysis Reports in Installation Guides

The Authorized Problem Analysis Reports in the installation guides are the minimum required TL levels for AIX 5L V5.3 TL 09 and AIX 6.1 TL 02 SP1. If you are using a later TL level than the minimum level listed here, then contact IBM to determine what Authorized Problem Analysis Reports are included in the TL level that you have on your system. If they are included, then you do not need to install them. If they are not included, then you must install the equivalent Authorized Problem Analysis Reports for the appropriate TL level.

4.2 Installation, Configuration, and Upgrade Issues for Release 11.2.0.1

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

- [Oracle Notification Service Issue After Shared Oracle RAC Database Upgrade](#)
- [File System Configuration Data Not Found on Oracle Enterprise Manager Database Control Host Page](#)
- [ORA-00600 Error During Database Upgrade](#)
- [Error During Deinstallation in JP locale](#)
- [Oracle Enterprise Manager Fails During Install or Upgrade](#)

4.2.1 Oracle Notification Service Issue After Shared Oracle RAC Database Upgrade

After you complete an upgrade from shared Oracle Clusterware Release 11.1 to shared Oracle Grid Infrastructure Release 11.2, you may encounter an error with Oracle Notification Service. The first node shows the Oracle Notification Service file, ora.ons, is offline.

Workaround:

Perform the following steps:

1. Log in as the Oracle Grid Infrastructure installation owner.
2. Run the following commands to find the Oracle Notification Service processes on the nodes and stop them:

```
$ ps -ef | grep "ons -d"
$ kill -9 pid1 pid2
```

3. Change directory to bin in the Oracle Grid Infrastructure home, and enter the command crsctl start res ora.ons. For example, if the grid home is /u01/grid, then enter the following commands:

```
$ chdir /u01/grid/bin
$ ./crsctl start res ora.ons
```

This issue is tracked with Oracle bug 9133235.

4.2.2 File System Configuration Data Not Found on Oracle Enterprise Manager Database Control Host Page

Oracle Enterprise Manager Database Control may not show the File System configuration data, and the Operating System Collection Warnings may appear on the Configuration page:

```
sh: mount: not found
```

Workaround:

Perform the following steps:

1. Add /usr/sbin to PATH environment variable.

For Bash shell:

```
export PATH=$PATH:/usr/sbin
```

2. Restart Oracle Enterprise Manager Database Control.

This issue is tracked with Oracle bug 9206261.

4.2.3 ORA-00600 Error During Database Upgrade

When you upgrade from Oracle9i Database Release 2 to Oracle Database 11g Release 2, the database upgrade fails with the following error:

```
ORA-00600: internal error code, arguments: [ktsxaffs1]
```

Workaround:

Set _affinity_on=false in the SPFILE of Oracle Database Release 9.2 before you upgrade.

This issue is tracked with Oracle bug 6615695.

4.2.4 Error During Deinstallation in JP locale

If you use the Deinstallation Tool (deinstall) in Japanese locale to remove Oracle RAC 11g Release 2, then the following error message appears:

```
IBM: 0403-009 The specified number is not valid for this command
```

Workaround:

Set `LANG=C`, before running the Deinstallation Tool.

This issue is tracked with Oracle bug 9227535.

4.2.5 Oracle Enterprise Manager Fails During Install or Upgrade

Oracle Database Configuration Assistant or Oracle Database Upgrade Assistant intermittently fails while running Oracle Enterprise Manager Configuration and gives a `NULL` error message. The configuration assistant prompts you to run the Oracle Enterprise Manager Configuration Assistant command line tool to configure or upgrade Oracle Enterprise Manager Database Control.

Workaround:

For a new Oracle Enterprise Manager Database Control setup, during database install or database upgrade, you must run the following command after the creating or upgrading the database:

```
emca -config dbcontrol db -repos recreate -cluster
```

For an Oracle Enterprise Manager Database Control upgrade process, you must run the following command after the upgrading the existing database:

```
emca -upgrade db -cluster
```

This issue is tracked with Oracle bug 9169706.

4.3 Other Known Issues for Release 11.2.0.1

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

- [Help Files Translation Issue for Spanish and French](#)
- [Incorrect Reverse Ping Command from Oracle Management Service](#)
- [Patch Oracle Database Deployment Procedure Issue](#)
- [Oracle Management Service Restart Fails Intermittently](#)
- [SQL Developer Release 1.5.5 Does Not Support JDK Version 1.5.x](#)
- [Deployment Procedure Issue with Oracle RAC](#)
- [The addNode Command Fails on Oracle RAC](#)
- [Wallet Upload Issue with Oracle Wallet Manager](#)
- [Help Pages Fail to Load for Oracle Database Client \(32-Bit\)](#)

4.3.1 Help Files Translation Issue for Spanish and French

Oracle Universal Installer does not copy the translated help files to Oracle home directory when you select the Spanish or French language.

Workaround:

On the Select Product Languages page, select both the Latin American Spanish and Spanish to get the help files translated in Spanish; and select both the Canadian French and French for the translated help files in French.

This issue is tracked with Oracle bug 9147106.

4.3.2 Incorrect Reverse Ping Command from Oracle Management Service

Oracle Management Service provides incorrect reverse ping command with Oracle Enterprise Manager Database Control. The `emoms.properties` file shows:

```
emdrep.ping.pingCommand=/usr/sbin/ping <hostname>
```

Workaround:

Change the property in the `emoms.properties` file to:

```
emdrep.ping.pingCommand=/usr/sbin/ping -c 3 -w 30 <hostname>
```

Note: On all the computers using IPv6, you must specify `ping6` command (or an equivalent IPv6 command) instead of `ping` command.

This issue is tracked with Oracle bug 9211800.

4.3.3 Patch Oracle Database Deployment Procedure Issue

When you apply a patch from Oracle Enterprise Manager Database Control using the Patch Oracle Database deployment procedure, the applied patch may not appear on the Oracle home details page.

Workaround:

Use the command, `opatch lsinventory`, at the operating system prompt to list the patches applied to the Oracle home.

This issue is tracked with Oracle bug 8791320.

4.3.4 Oracle Management Service Restart Fails Intermittently

Oracle Management Service restart fails intermittently as Oracle Enterprise Manager Database Control fails to start with the following error message:

```
The socket name is already in use.
```

Workaround:

If Oracle Enterprise Manager Database Control does not shut down successfully, then manually stop the process.

This issue is tracked with Oracle bug 9118229.

4.3.5 SQL Developer Release 1.5.5 Does Not Support JDK Version 1.5.x

The dialogs to create and edit objects in SQL Developer release 1.5.5 fail to open as JDK version 1.5.x is not supported.

Workaround:

Use any one of the following workarounds:

- Upgrade the JDK to version 1.6.
- Enter the SQL statement on the SQL Worksheet.
- Use SQL Developer from a client desktop (non-AIX).
- Use the `sqlplus` command to start SQL*Plus.

This issue is tracked with Oracle bug 9195473.

4.3.6 Deployment Procedure Issue with Oracle RAC

The Deployment Procedure to update the software using Oracle Enterprise Manager Database Control fails on Oracle RAC and Oracle Grid Infrastructure, with the following error:

```
ORA-00001: unique constraint (SYSMAN.PK_MGMT_JOB_EXECUTION) violated
```

Workaround:

Run the following commands as SYSMAN for the database:

```
SELECT MAX(step_id) FROM MGMT_JOB_HISTORY; (--> v1)
SELECT MGMT_JOB_SEQUENCE.CURRVAL FROM DUAL; (--> v2)
ALTER SEQUENCE MGMT_JOB_SEQUENCE INCREMENT BY (v2-v1+1);
```

Add the calculated value in the third command.

This issue is tracked with Oracle bug 9205553.

4.3.7 The addNode Command Fails on Oracle RAC

When you run the `addNode` command on an Oracle RAC environment, you may encounter the following `updatenodelist` error, where *new_node* is the name of the node you are adding:

```
SEVERE: 12/21/09 11:10:03 AM UTC: Remote 'UpdateNodeList' failed on nodes: 'new_node'.
```

Workaround:

Run the `updatenodelist` command manually on the new node. Refer to the `addnode` output or logs for complete information about `updatenodelist` command.

This issue is tracked with Oracle bug 9229777.

4.3.8 Wallet Upload Issue with Oracle Wallet Manager

Oracle Wallet Manager fails to upload wallet to Oracle Internet Directory server, giving the following error message:

```
Exception while initialization:java.security.NoSuchAlgorithmException:
Algorithm SunX509 not available
```

Workaround:

None

This issue is tracked with Oracle bug 10144879.

4.3.9 Help Pages Fail to Load for Oracle Database Client (32-Bit)

Oracle Universal Installer does not find the `clientinstaller_help.map` file and fails to load the help pages for locales other than English.

Workaround:

Set `LANG=C` before running Oracle Universal Installer. This changes the installer locale to English and the help content is available.

This issue is tracked with Oracle bug 9474214.

5 Content Specific to Oracle Database 11g Release 2 (11.2.0.2)

The following content is specific to release 11.2.0.2:

- [Preinstallation Requirements for Release 11.2.0.2](#)
- [Installation, Configuration, and Upgrade Issues for Release 11.2.0.2](#)
- [Other Known Issues for Release 11.2.0.2](#)

5.1 Preinstallation Requirements for Release 11.2.0.2

Refer to the installation guides for the preinstallation requirements.

5.2 Installation, Configuration, and Upgrade Issues for Release 11.2.0.2

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

- [Role Permissions Issue with Oracle ASM Configuration Assistant, SQL*Plus, X Terminal](#)
- [Performance Statistics Issue with Oracle Enterprise Manager Database Control](#)
- [Error When Installing Oracle Grid Infrastructure for a Cluster with Grid Naming Service](#)
- [Oracle Notification Service Issue After Shared Oracle RAC Database Upgrade](#)
- [ORA-00600 Error During Database Upgrade](#)
- [Monitoring Issue with Oracle Enterprise Manager Database Control](#)
- [Oracle Database Vault Administrator Login Issues](#)
- [Error While Installing Oracle Grid Infrastructure Using Non-English Locales](#)

5.2.1 Role Permissions Issue with Oracle ASM Configuration Assistant, SQL*Plus, X Terminal

Ensure that the `oracle_devmgmt` role is set before running administrative tools, such as, Oracle ASM Configuration Assistant and SQL*Plus, for management of Oracle Automatic Storage Management Cluster File System and Oracle Automatic Storage Management Dynamic Volume Manager. Also, when entering a new X terminal (or using the associated commands, such as `uxterm` and `aixterm`), the `oracle_devmgmt` role necessary for the administration of Oracle Automatic Storage Management Cluster File System and Oracle Automatic Storage Management Dynamic Volume Manager is not properly set.

Workaround:

Run the following command before running administrative tools or after opening a new terminal:

```
$ swrole oracle_devmgmt
```

Check that the `swrole` is set to `oracle_devmgmt` by running the following command:

```
$ rolelist -e
```

5.2.2 Performance Statistics Issue with Oracle Enterprise Manager Database Control

The summary chart on the Oracle Enterprise Manager Cluster Performance page does not show any data.

Workaround:

Perform the following steps:

1. Stop Oracle Enterprise Manager Database Control.
2. Add the following to the properties file, `$ORACLE_HOME/host_dbunique/sysman/config/emoms.properties`:

```
oracle.sysman.db.rac.useRemoteCollection=false
```

3. Restart the Oracle Enterprise Manager Database Control

This issue is tracked with Oracle bug 10129539.

5.2.3 Error When Installing Oracle Grid Infrastructure for a Cluster with Grid Naming Service

When installing Oracle Grid Infrastructure for a Cluster with Grid Naming Service enabled, the `root.sh` script gives the following error:

```
PRCR-1079 : Failed to start resource ora.gns
```

Workaround:

None. This issue does not affect any functionality.

This issue is tracked with Oracle bug 10040115.

5.2.4 Oracle Notification Service Issue After Shared Oracle RAC Database Upgrade

After you complete an upgrade from shared Oracle Clusterware Release 11.1 to shared Oracle Grid Infrastructure Release 11.2, you may encounter an error with Oracle Notification Service. The first node shows the Oracle Notification Service file, `ora.ons`, is offline.

Workaround:

Perform the following steps:

1. Log in as the Oracle Grid Infrastructure installation owner.
2. Run the following commands to find the Oracle Notification Service processes on the nodes and stop them:

```
$ ps -ef | grep "ons -d"
$ kill -9 pid1 pid2
```

3. Change directory to `bin` in the Oracle Grid Infrastructure home, and enter the command `crsctl start res ora.ons`. For example, if the grid home is `/u01/grid`, then enter the following commands:

```
$ chdir /u01/grid/bin
$ ./crsctl start res ora.ons
```


This issue is tracked with Oracle bug 9133235.

5.2.5 ORA-00600 Error During Database Upgrade

When you upgrade from Oracle9i Database Release 2 to Oracle Database 11g Release 2, the database upgrade fails with the following error:

```
ORA-00600: internal error code, arguments: [ktsxaff1]
```

Workaround:

Set `_affinity_on=false` in the `SPFILE` of Oracle Database Release 9.2 before you upgrade.

This issue is tracked with Oracle bug 6615695.

5.2.6 Monitoring Issue with Oracle Enterprise Manager Database Control

Monitoring in memory access mode is not supported for databases.

This issue is tracked with Oracle bug 6498439.

5.2.7 Oracle Database Vault Administrator Login Issues

While trying to log in to Oracle Database Vault Administrator, you may get the following error:

```
java.security.NoSuchProviderException: no such provider: SUN
```

Workaround:

Use any one of the following workarounds to configure Database Vault policy:

- Connect to the 11.2.0.2 AIX Database Vault enabled database using the 11.2.0.1 Oracle Database Vault Administrator from any platform.
- Use Database Vault administrative packages.

This issue is tracked with Oracle bug 10188865.

5.2.8 Error While Installing Oracle Grid Infrastructure Using Non-English Locales

While installing Oracle Grid Infrastructure using non-English locales, the `root.sh` script gives the following error message and the `ora.registry.acfs` resource shows offline:

```
CRS-2674: Start of 'ora.registry.acfs' on host_name failed
```

The error may also occur when running `srvctl`, `asmca`, or `dbca` utilities.

Workaround:

Change the locale to English before running the `root.sh` script:

```
# export LANG=C
```

This issue is tracked with Oracle bugs 10193581 and 10229727.

5.3 Other Known Issues for Release 11.2.0.2

The following section contains information about issues related to Oracle Database 11g and associated products:

- [Oracle Management Service Restart Fails Intermittently](#)
- [The addnode Command Fails on Oracle RAC](#)
- [SQL Developer Release 1.5.5 Does Not Support JDK Version 1.5.x](#)
- [Wallet Upload Issue with Oracle Wallet Manager](#)

5.3.1 Oracle Management Service Restart Fails Intermittently

Oracle Management Service restart fails intermittently as Oracle Enterprise Manager Database Control fails to start with the following error message:

```
The socket name is already in use.
```

Workaround:

If Oracle Enterprise Manager Database Control does not shut down successfully, then manually stop the process.

This issue is tracked with Oracle bug 9118229.

5.3.2 The addnode Command Fails on Oracle RAC

When you run the addnode command on an Oracle RAC environment, you may encounter the following updatenodelist error, where *new_node* is the name of the node you are adding:

```
SEVERE: 09/29/10 11:10:03 AM UTC: Remote 'UpdateNodeList' failed on nodes: 'new_node'.
```

Workaround:

Run the updatenodelist command manually on the new node. Refer to the addnode output or logs for complete information about updatenodelist command.

This issue is tracked with Oracle bug 9229777.

5.3.3 SQL Developer Release 1.5.5 Does Not Support JDK Version 1.5.x

The dialogs to create and edit objects in SQL Developer release 1.5.5 fail to open as JDK version 1.5.x is not supported.

Workaround:

Use any one of the following workarounds:

- Upgrade the JDK to version 1.6.
- Enter the SQL statement on the SQL Worksheet.
- Use SQL Developer from a client desktop (non-AIX).
- Use the sqlplus command to start SQL*Plus.

This issue is tracked with Oracle bug 9195473.

5.3.4 Wallet Upload Issue with Oracle Wallet Manager

Oracle Wallet Manager fails to upload wallet to Oracle Internet Directory server, giving the following error message:

```
Exception while initialization:java.security.NoSuchAlgorithmException:  
Algorithm SunX509 not available
```

Workaround:

None

This issue is tracked with Oracle bug 10144879.

6 Content Specific to Oracle Database 11g Release 2 (11.2.0.3)

The following content is specific to release 11.2.0.3:

- [Preinstallation Requirements for Release 11.2.0.3](#)
- [Installation, Configuration, and Upgrade Issues for Release 11.2.0.3](#)
- [Other Known Issues for Release 11.2.0.3](#)

6.1 Preinstallation Requirements for Release 11.2.0.3

Refer to the installation guides for the preinstallation requirements.

6.2 Installation, Configuration, and Upgrade Issues for Release 11.2.0.3

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

- [Monitoring Issue with Oracle Enterprise Manager Database Control](#)

6.2.1 Monitoring Issue with Oracle Enterprise Manager Database Control

Monitoring in memory access mode is not supported for databases.

This issue is tracked with Oracle bug 6498439.

6.3 Other Known Issues for Release 11.2.0.3

The following section contains information about issues related to Oracle Database 11g and associated products:

- [Required Oracle Warehouse Builder Patches](#)
- [Oracle Messaging Gateway Fails to Start on AIX 6.1 or Higher Systems](#)

6.3.1 Required Oracle Warehouse Builder Patches

If you plan to install Oracle Warehouse Builder, then after you install Oracle Database, but before you create the Oracle Warehouse Builder repository, you must complete the following procedure:

1. Download patch 12973504 from the My Oracle Support Web site.
2. Extract the contents to a directory, for example, /tmp/12973504.
3. Verify that the ORACLE_HOME environment variable is set to the 11.2.0.2 DB home.
4. Run the Opatch utility with the right parameters to proceed with the Oracle Warehouse Builder one-off installation:

```
cd /tmp/12973504
opatch apply
```

5. Navigate to \$ORACLE_HOME/owb/patches/bug12973504.
6. Run the script, fix_bug12973504.sh.

7. After you have edited the files, you can install Oracle Warehouse Builder.

This issue is tracked with Oracle bug 11772716.

6.3.2 Oracle Messaging Gateway Fails to Start on AIX 6.1 or Higher Systems

When attempting to start the Oracle Messaging Gateway using the DBMS_MGWADM.STARTUP procedure, the job started by this procedure fails with following error:

```
ORA-32830: Result code -8 returned by Messaging Gateway agent
```

In the Oracle Messaging Gateway logs (located at \$ORACLE_HOME/mgw/log), you see messages similar to the following:

```
>>2010-06-18 10:16:01 MGW C-Bootstrap 0 LOG process-id=2908272
Bootstrap program starting
>>2010-06-18 10:16:02 MGW C-Bootstrap 0 LOG process-id=2908272
Failed to create Java VM: retCode = -4
>>2010-06-18 10:16:02 MGW JVM log
JVMJ9VM015W Initialization error for library j9gc23(2): Failed to instantiate
heap; 64M requested
```

Problem Summary : Java Instantiation fails on systems running AIX 6.1 or higher, which leads to this issue. IBM is aware of this issue and is tracking this through Authorized Program Analysis Report (APAR) IZ55237. Contact IBM Support for specific patches for the AIX version and level running in your environment.

Workaround:

Modify the listener.ora file for the Messaging Gateway listener to implement MPROTECT_TXT=OFF. For example:

```
SID_LIST_LISTENER =

(SID_LIST =
(SID_DESC=
(SID_NAME= mgwextproc)

(ENVS="LIBPATH=[ORACLE_HOME]/jdk/jre/bin:[ORACLE_HOME]/jdk/jre/bin/classic:
[ORACLE_HOME]/lib,MPROTECT_TXT=OFF")
(ORACLE_HOME=[ORACLE_HOME])
(PROGRAM = extproc))
)
)
```

This issue is tracked with Oracle bug 12842870.

7 Documentation Accessibility

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

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

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.

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