

Oracle® Database

Release Notes

11g Release 2 (11.2) for Microsoft Windows

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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*.

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/technology/documentation/>

This document contains the following topics:

- [Certification Information](#)
- [Unsupported Products](#)
- [Preinstallation Requirements](#)
- [Installation, Configuration, and Upgrade Issues](#)
- [Other Known Issues](#)
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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 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:

- Windows Automatic Storage Management-based and Oracle Notification Service-based Fast Application Notifications for IPv6.
- Oracle RAC, Oracle Clusterware, Oracle Restart, and Oracle ASM are not supported on Windows 32-bit.
- Pro*COBOL is not supported on Windows 7 and Windows Server 2008 R2 x64 operating systems. It will be certified when a supported COBOL Compiler is available on these operating systems.

Database Smart Flash Cache Support

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

Oracle Automatic Storage Management Cluster File System and Oracle Automatic Storage Management Dynamic Volume Manager Support

Oracle Automatic Storage Management Cluster File System and Oracle Automatic Storage Management Dynamic Volume Manager are supported only on Oracle Enterprise Linux 5.0 and Red Hat Enterprise Linux 5.0 on Linux x86 and Linux x86-64. On Windows x64, Oracle ACFS and Oracle ADVM are only supported on Windows Server 2003 x64 and Windows Server 2003 R2 x64.

Oracle SQL Developer Support

Oracle SQL Developer 1.5.5 that ships with Oracle Database 11g Release 2 (11.2) is not supported on Windows x64.

Workaround:

Download Oracle SQL Developer 2.1 or later from the Oracle Technology Network (OTN) Web site:

(http://www.oracle.com/technology/products/database/sql_developer/index.html)

This issue is tracked with Oracle bug 9181397.

3 Preinstallation Requirements

Refer to the installation guides for the preinstallation requirements. The following are the additional requirements:

- [Disk Space Requirement Issue During Oracle Grid Infrastructure Installation](#)

3.1 Disk Space Requirement Issue During Oracle Grid Infrastructure Installation

When installing Oracle grid infrastructure, the disk space requirement displayed on the Oracle Universal Installer Summary page is less than the actual disk space required.

Workaround:

Refer to *Oracle Grid Infrastructure Installation Guide* for information about disk space.

This issue is tracked with Oracle bug 9241366.

4 Installation, Configuration, and Upgrade Issues

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

- [Latest Upgrade Information](#)
- [Microsoft Visual C++ Redistributable Packages](#)
- [Upgrading Windows 32-Bit to Windows 64-Bit Using Oracle OLAP](#)
- [Issues Associated with SID Containing Underscore Character](#)

- Enabling Oracle Automatic Storage Management Dynamic Volume Manager Volumes
- Automatic Storage Management Service Is Disabled After System Restart
- OCI Instant Client Version Update Issue
- ORA-00600 Error During Database Upgrade
- Oracle Clusterware Upgrade Error
- EMVLOGGER.EXE Process Does Not Restart Automatically
- Windows Service Issue for Oracle Database
- Remote Agents Must Be Manually Reloaded After Cluster Ready Services (CRS) Upgrade and Oracle ASM Upgrade
- Oracle MTS Recovery Service Issue When Installing Oracle RAC
- Root Script Status Not Displayed with Oracle Grid Infrastructure
- Issue Encountered When Special Characters Are Used in Network Interface Names
- Deinstallation Tool Fails to Remove Registry Entries
- Deinstallation Issues with ODP.NET
- Deinstallation Tool Does Not Remove Oracle Home
- Deinstallation Tool Does Not Remove invDetails.properties File
- Deinstallation Tool Does Not Remove ocfs.sys File
- Deinstallation Tool Does Not Detect Oracle RAC Home
- Deinstallation Tool Might Not Remove ORACLECLUSTERVOLUMESERVICE
- Using Deinstallation Tool for Oracle RAC Returns Errors
- Time Issue with Deinstallation Tool to Remove Oracle RAC Home
- Deinstallation Tool Fails to Remove Oracle Grid Infrastructure for a Cluster in Silent Mode
- Install 32-Bit and 64-Bit Oracle Software in Separate Oracle Base Directories
- User Issue with ORA_DBA Group on Remote Nodes
- Oracle Clusterware Resource Status Issue
- SCAN Name Issue with Oracle Clusterware
- Oracle Notification Service (ONS) Fails to Start During Oracle Grid Infrastructure Upgrade
- Upgrade of Oracle Clusterware Release 10.2.0.5 to Oracle Clusterware 11.2.0.1 Fails

4.1 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*) (<https://support.oracle.com/>) that links to "Oracle 11gR2 Upgrade Companion" page.

4.2 Microsoft Visual C++ Redistributable Packages

The Microsoft Visual C++ 2005 SP1 Redistributable Package is automatically installed with the Oracle Database 11g Release 2 (11.2) software. Do not remove this package from the Add or Remove Programs interface in the Control Panel.

4.3 Upgrading Windows 32-Bit to Windows 64-Bit Using Oracle OLAP

To upgrade Windows 32-bit to Windows 64-bit using the Oracle Online Analytical Processing (OLAP) option, refer to Note 352306.1 on My Oracle Support (formerly *OracleMetaLink*) at:

<https://support.oracle.com/>

4.4 Issues Associated with SID Containing Underscore Character

Oracle Database 11.2 supports Oracle SID having an underscore but it is not compatible with the earlier client releases with a bequeath connection. The issue affects any Oracle Database Client 11.1.0.7 or earlier client, when connecting to the database over a bequeath connection. This includes all OCI clients and Oracle Enterprise Manager agents that monitor the database.

Workaround:

Use only alphanumeric characters including hyphens for Oracle SID or connect to the database using TCP connection.

This issue is tracked with Oracle bug 7611024.

4.5 Enabling Oracle Automatic Storage Management Dynamic Volume Manager Volumes

Oracle Automatic Storage Management Dynamic Volume Manager volumes are typically enabled automatically. Disk groups that are listed in the `init.ora` file for Oracle Automatic Storage Management (Oracle ASM) have all volumes automatically enabled during disk mount.

For volumes in disk groups that are mounted manually, you must also manually enable the volumes in that disk group before using them.

In Oracle Restart, to load Oracle Automatic Storage Management Cluster File System drivers during system initialization as an Administrator, you must manually reload the three drivers associated with Oracle ACFS: Oracle OKS, Oracle ADVM and Oracle ACFS.

This issue is tracked with Oracle bug 7700977.

4.6 Automatic Storage Management Service Is Disabled After System Restart

After an installation, the Automatic Storage Management Startup Type is set to Manual. Hence, Automatic Storage Management does not start when you restart the system.

Workaround:

In Services Control Manager, change the Startup Type to **Automatic**.

4.7 OCI Instant Client Version Update Issue

A new Oracle Database release does not update OCI Instant Client version.

Solution:

Use the OCIClientVersion feature to determine the client version instead of checking the dll version number.

This issue is tracked with Oracle bug 8372062.

4.8 ORA-00600 Error During Database Upgrade

When you upgrade from Oracle Database release 9.2 to release 10.2, and then upgrade to release 11.2, the database upgrade fails with an ORA-00600 error.

This issue is tracked with Oracle bug 8668823.

4.9 Oracle Clusterware Upgrade Error

When you use Oracle Universal Installer to upgrade Oracle Clusterware 11g Release 1 (11.1.0.6), or Oracle Clusterware 11g Release 1 (11.1.0.7) to Oracle Clusterware 11g Release 2 (11.2), you may receive the following error:

```
[INS-40406] There is no previous version of grid software detected on the system.
```

Workaround:

While upgrading a node, for instance a remote node, other than the one on which Oracle Clusterware 11g Release 1 (11.1.0.6) was installed, the registry key HKEY_LOCAL_MACHINE\SOFTWARE\Oracle\inst_loc may not be set correctly.

Ensure that you manually set the registry key HKEY_LOCAL_MACHINE\SOFTWARE\Oracle\inst_loc to the location of the Oracle Inventory directory of the node on which you are performing the upgrade installation.

This issue is tracked with Oracle bugs 9210861 and 6527941.

4.10 EMVLOGGER.EXE Process Does Not Restart Automatically

If the EMVLOGGER.EXE process is terminated at the operating system level, it fails to restart automatically because of an existing log file.

Workaround:

Remove the emvlogger log file at *Grid_home*\evm\log*_emvlogger.log, where *Grid_home* is the location of your Oracle grid infrastructure installation. The EMVLOGGER.EXE process should automatically restart after approximately one minute.

This issue is tracked with Oracle bug 9260650.

4.11 Windows Service Issue for Oracle Database

Manually shutting down an Oracle Database or stopping an Oracle ASM instance using CRSD utility or SQL*Plus does not stop its associated Windows service.

Workaround:

Using the Services management console, manually stop the Windows service associated with the Oracle instance. You can access the Services management console

through the Control Panel, or you can stop the Oracle Database service, or Oracle ASM service directly using the following commands:

```
net stop OracleServiceSID
net stop oracleASMSERVICE
```

This issue is tracked with Oracle bug 9178097.

4.12 Remote Agents Must Be Manually Reloaded After Cluster Ready Services (CRS) Upgrade and Oracle ASM Upgrade

When attempting to upgrade CRS or Oracle ASM to 11.2 release using the Automatic Storage Management Configuration Assistant (ASMCA), the upgrade succeeds, but the configuration changes made to the Agents on a remote host fail to reload. As a result, Oracle Enterprise Manager Grid Control and Database Control cannot monitor the Oracle ASM and CRS targets.

Workaround:

Manually reload the remote agents after the upgrade using the following command:

```
emctl reload agent
```

This issue is tracked with Oracle bug 9398380.

4.13 Oracle MTS Recovery Service Issue When Installing Oracle RAC

In an Oracle RAC database installation, Oracle MTS Recovery Service on the remote nodes does not have the correct host name registered for string variable `HOST` under registry key `HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\OracleMTSRecoveryService\Protid_0`. This variable contains the name of the host from where the installation was performed instead of the name of the local host. This registry variable is used by COM+ applications to pass information to Oracle databases so that they can connect back to the Windows computer if the database needs to resolve in-doubt COM+ transactions. The incorrect host name that is registered can cause transaction recovery issues.

Workaround:

To fix this, use Registry Editor (`regedit`) on the remote Windows system and look under the registry key:

```
HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\OracleMTSRecoveryService\Protid_0
```

The string-type values for the following key must be set correctly:

```
Name:          *Host*
Type:          REG_SZ
Data: << the name of the host-machine e.g. myhost@example.com
<mailto:myhost@example.com>>>
```

This key must contain the host name of the system on which the registry key exists.

This issue is tracked with Oracle bug 9483665.

4.14 Root Script Status Not Displayed with Oracle Grid Infrastructure

When running `rootcrs.pl` or `roothas.pl` to configure, upgrade, or deconfigure Oracle grid infrastructure, the script does not display the success or failure status in the command window.

Workaround:

None. Check the log file generated at the following location to know the status of the script:

```
Grid_home/cfgtoollogs/rootcrs_host_name.log
```

This issue is tracked with Oracle bug 9473262.

4.15 Issue Encountered When Special Characters Are Used in Network Interface Names

While installing or upgrading Oracle grid infrastructure for a cluster, you might encounter an issue if special characters, including non-ASCII characters and single quotation marks, are used in network connection names. The following message is recorded in the Oracle Universal Installer log:

```
ATTENTION: Bareword found where operator expected at (eval 20) line 1,
near "' 'node-vip/netmask/excutabled'acc"
ATTENTION:      (Missing operator before acc?)
ATTENTION: Parameter ORACLE_HOME not defined at
C:\app\11.2.0\grid\crs\install\crsconfig_lib.pm line 8722.
```

Workaround:

Do not use special characters in network connection names.

This issue is tracked with Oracle bug 9492881.

4.16 Deinstallation Tool Fails to Remove Registry Entries

When deinstalling a single instance Oracle Database, Oracle Database Client, or Oracle RAC (Windows x64 only), some of the registry entries are not removed.

Workaround:

- Manually remove the following registry entries:

```
HKLM\Software\Microsoft\ .NETFramework\v2.0.50727\AssemblyFoldersEX\ODP.NET
HKLM\Software\Microsoft\VisualStudio\8.0\Help\VisibleFilters\OracleDataProvider
TechFilter
```

This issue is tracked with Oracle bug 9501499.

- Manually remove the registry entry, Oracle in `ORACLE_HOME_NAME`:

```
HKLM\Software\ODBC\ODBCINST.INI\ODBC Drivers\Oracle in Oracle_HOME_NAME
```

This issue is tracked with Oracle bug 9478171.

- Manually remove the registry entry, Oracle Services for MTS:

```
HKLM\System\CurrentControlSet\Services\EventLog\Application\Oracle Services for
MTS
```

This issue is tracked with Oracle bug 9524210.

- Manually remove the registry entry, `OracleDBConsoleSID`:
`HKLM\System\CurrentControlSet\Services\EventLog\Application`

This issue is tracked with Oracle bug 9523875.

- Manually remove the registry entries, `Oracle.SID` and `Oracle.VSSWriter.SID`:
`HKLM\System\CurrentControlSet\Services\EventLog\Application`

This issue is tracked with Oracle bug 9523866.

- Manually remove the following registry entries:
`HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Oracle11`
`HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\OraFenceService`

This issue is tracked with Oracle bug 9478187.

4.17 Deinstallation Issues with ODP.NET

While removing a single instance Oracle Database, Oracle Database Client, or Oracle RAC on 64-bit Windows, you might see some unnecessary characters or lines printed in `winprod_cleanup.out` on a non-English operating system. If the operating system is English, then you might see the following message:

```
This action is only valid for products that are currently installed.
```

Workaround:

Ignore these unnecessary characters and the message.

This issue is tracked with Oracle bug 9440539.

4.18 Deinstallation Tool Does Not Remove Oracle Home

When using the Deinstallation Tool to remove an Oracle home that has Oracle Enterprise Manager Database Control configured and that was installed on Oracle ACFS, the `%ORACLE_HOME%\host_sid\sysman` directory and its sub directories cannot be deleted, preventing the Oracle home from being removed.

Workaround:

Prior to performing these operations, run the following command as the Administrator user:

```
cacls %ORACLE_HOME%\HOSTNAME_DBNAME\sysman\emd\upload\hsperfdata_SYSTEM /E /P  
%USERDOMAIN%\%USERNAME%:F
```

This issue is tracked with Oracle bug 9444816.

4.19 Deinstallation Tool Does Not Remove `invDetails.properties` File

The Deinstallation Tool fails to remove the `invDetails.properties` file when deinstalling Oracle RAC home.

Workaround:

Manually remove the `dbhome\inventory` directory.

This issue is tracked with Oracle bug 9543109.

4.20 Deinstallation Tool Does Not Remove ocfs.sys File

The Deinstallation Tool fails to remove the `ocfs.sys` file when deinstalling Oracle RAC.

Workaround:

Manually remove the `ocfs.sys` file:

```
system_drive\Windows\System32\drivers\ocfs.sys
```

This issue is tracked with Oracle bug 9498036.

4.21 Deinstallation Tool Does Not Detect Oracle RAC Home

If you are deinstalling the 11.2.0.1.0 Oracle RAC Database software installed on Oracle ACFS mounted drive using the Deinstallation Tool, you might see the following message during the Oracle Configuration Manager (OCM) deconfiguration:

```
Oracle Home does not exists, but CCR is configured
```

Workaround:

You can ignore this message, the OCM gets deconfigured successfully.

This issue is tracked with Oracle bug 9545478.

4.22 Deinstallation Tool Might Not Remove ORACLECLUSTERVOLUMESERVICE

When using the Deinstallation Tool to remove CRS home, you might encounter the issue that removing service, `OracleClusterVolumeService`, failed.

Workaround:

Manually remove the service, `OracleClusterVolumeService`.

This issue is tracked with Oracle bug 9405729.

4.23 Using Deinstallation Tool for Oracle RAC Returns Errors

The Deinstallation Tool is unable to delete files that are still in use because one or more processes or services were not stopped successfully. The deinstall output shows error messages such as:

```
Failed to delete the file file_name
```

Workaround:

Remove the Oracle home manually after the server is restarted.

This issue is tracked with Oracle bug 9446472.

4.24 Time Issue with Deinstallation Tool to Remove Oracle RAC Home

When using the Deinstallation Tool to remove an Oracle RAC home that was installed on Oracle ACFS, the tool takes a longer amount of time than expected to finish.

Workaround:

None. Wait an additional 20-30 minutes for the deinstallation tool to finish.

This issue is tracked with Oracle bug 9478372.

4.25 Deinstallation Tool Fails to Remove Oracle Grid Infrastructure for a Cluster in Silent Mode

When using the Deinstallation Tool to remove Oracle grid infrastructure for a cluster in silent mode, the tool fails with the following error message:

```
ERROR: As the privileged user, Execute \deinstall\crsdc.bat on every
node in this cluster except for this node, and then execute
\deinstall\rootdeinstall.bat on this node to remove the configuration of the
Oracle Clusterware and to completely remove the Oracle software
```

Workaround:

Follow these steps when the deinstallation fails:

1. Run `crsdc.bat` on all the nodes as instructed by the Deinstallation Tool.
2. Run `rootdeinstall.bat` from the `deinstall` directory on node 1.

This issue is tracked with Oracle bug 9540713.

4.26 Install 32-Bit and 64-Bit Oracle Software in Separate Oracle Base Directories

If you install 32-bit Oracle software and 64-bit Oracle software on the same server, then you should use different Oracle Base directories for the 32-bit Oracle software and the 64-bit Oracle software.

This issue is tracked with Oracle bug 9502109.

4.27 User Issue with ORA_DBA Group on Remote Nodes

When installing an Oracle RAC Database on a cluster using a local user (non-domain user) account, the user account is not added to the `ORA_DBA` group on remote nodes. This will prevent the local user from connecting to the database as `SYSDBA` using operating system authentication.

Workaround:

Manually add this local user to the `ORA_DBA` group on all the remote nodes or install as a domain user.

This issue is tracked with Oracle bug 9524516.

4.28 Oracle Clusterware Resource Status Issue

In an Oracle RAC cluster with 2 or more nodes, if you restart one of the node, and then, while the node is being restarted, use `CRSCTL` on another node to query the status of the Oracle Clusterware resources, then `CRSCTL` either displays no information, or returns the error message:

```
CRS-0245:USER DOESN'T HAVE ENOUGH PRIVILEGE TO QUERY CRS RESOURCES
```

Workaround:

Before restarting a node, issue the following command on that node:

```
crsctl stop crs -f
```

This issue is tracked with Oracle bug 9369059

4.29 SCAN Name Issue with Oracle Clusterware

In an Oracle Clusterware environment where DHCP is configured and GNS is enabled, if the non-qualified SCAN name is resolved by DNS, it can cause Enterprise Manager Configuration Assistant (EMCA) or Database Configuration Assistant (DBCA) to fail with the following error message:

```
SEVERE: Scan Listener is not up or database service is not registered with it.  
Start the Scan Listener and register database service and run EM Configuration  
Assistant again
```

Workaround:

When using GNS, ensure that the SCAN name, qualified by either the default domain on the network, or qualified by any domain in the cluster nodes' domain search order, is not resolvable through DNS for the network.

This issue is tracked with Oracle bug 9471408.

4.30 Oracle Notification Service (ONS) Fails to Start During Oracle Grid Infrastructure Upgrade

During an upgrade of the Grid home to release 11.2, the `PRCR-1064` error is sometimes encountered for the `ora.ons` resource on the last node. This error appears in the `rootcrs_nodename.log` file.

Workaround:

When the Grid Infrastructure upgrade fails with this error, perform the following steps:

1. Open the Windows Task Manager and find the two `ons.exe` processes.
2. Stop both the `ons.exe` processes.
3. Run the following commands:

```
srvctl start nodeapps  
srvctl start gns  
srvctl start scan  
srvctl start scan_listener
```

4. Skip the grid infrastructure configuration from the installer and complete the upgrade.

This issue is tracked with Oracle bug 9491140.

4.31 Upgrade of Oracle Clusterware Release 10.2.0.5 to Oracle Clusterware 11.2.0.1 Fails

During an Oracle grid infrastructure for a cluster installation, upgrade of Oracle Clusterware 10.2.0.5 to Oracle Clusterware 11.2.0.1 fails. The installer displays the following message:

```
Grid Infrastructure Configuration failed.
```

Solution:

Upgrading directly from Oracle Clusterware 10.2.0.5 to Oracle Clusterware 11.2.0.1 is not supported. Either complete the upgrade by running an Oracle grid infrastructure for a cluster 11.2.0.2 installation, or contact support for a one-off patch for the Oracle Clusterware 11.2.0.1 software.

This issue is tracked with Oracle bug 9776578.

5 Other Known Issues

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

- [Oracle Wallet Manager Help Does Not Work](#)
- [Delete Node Deployment Procedure Not Supported](#)
- [Oracle Database Extensions for .NET \(ODE.NET\) Support on Windows x64](#)
- [Oracle RAC Patch Not Supported](#)
- [Incorrect Reverse Ping Command from Oracle Management Service \(OMS\)](#)
- [Installing Online Patches on Windows Systems](#)
- [File Systems Mounted with Drive Letters on Oracle ADVM Volumes Are Not Visible in Windows Explorer](#)
- [Download Microsoft Handle Utility When Using Oracle ACFS](#)
- [Grid Naming Service \(GNS\) Failure](#)
- [Oracle Grid Infrastructure Listeners Issue](#)
- [Shared Oracle Home Shortcuts Do Not Work on Windows Server 2008](#)
- [addNode.bat Script Shows Success Even When One or More Node Additions Fail](#)
- [Inventory Issue with addNode.bat Script](#)
- [Data Pump Worker Processes Do Not Run on Different Oracle RAC Instances](#)
- [ORA_DBA Group Not Created By addNode.bat Script](#)
- [ODP.NET Help Not Installed on 64-Bit Windows](#)
- [Oracle ACFS As DB Home and LOB Files](#)
- [Oracle ACFS Recommendation for CRS Stack Shutdown](#)
- [Oracle Notification Service \(ONS\) Fails to Stop During CRS Stack Shutdown](#)
- [Global Services Daemon \(GSD\) Resource Shows ONLINE After a CRS Stack Restart](#)
- [VIP Does Not Fail Back When Public Network Interface Card \(NIC\) Status Changes Rapidly](#)
- [cluvfy.bat Fails to Check Shared Resource Status for Node Addition](#)

5.1 Oracle Wallet Manager Help Does Not Work

The Oracle Wallet Manager screen images and icons do not display clearly, and Oracle Wallet Manager help does not work.

Workaround:

Add `owm-images.jar` and `owm_help.jar` to the `CLASSPATH` variable in the `owm.c1` file so that the screen is displayed clearly and the Oracle Wallet Manager help works correctly.

Perform the following steps:

1. In the **Start** menu, right-click the **OWM** icon and select **Properties**. This gives you the location of the `owm.c1` file.
2. Open the `owm.c1` file using a text editor.
3. Add the `owm-images.jar` and `owm_help.jar` files to the `CLASSPATH` variable in the `owm.c1` file.

Note: The path of the `.jar` should be same as of `owm-3_0.jar`. Typically, the `owm-images.jar` and `owm_help.jar` files are located in `C:\app\user-name\product\11.2.0\ORACLE_HOME\owm\jlib\`.

4. Save the changes to the `owm.c1` file.

This issue is tracked with Oracle bug 7506415.

5.2 Delete Node Deployment Procedure Not Supported

Deleting nodes using Oracle Enterprise Manager Database Control is currently not supported. However, you can manually delete the nodes. See the following for more information:

- Chapter 3, "Cloning Oracle Clusterware to Create a Cluster" and Chapter 4, "Adding and Deleting Cluster Nodes on Windows Systems" in the *Oracle Clusterware Administration and Deployment Guide*
- Chapter 10, "Adding and Deleting Nodes and Instances on Windows Systems" in the *Oracle Real Application Clusters Administration and Deployment Guide*

5.3 Oracle Database Extensions for .NET (ODE.NET) Support on Windows x64

.NET Stored Procedures run fine with .NET Framework 2.0 and with .NET Framework 2.0 SP1. Running a .NET Stored Procedure with .NET Framework 2.0 SP2 causes an access violation in `extproc.exe`.

Workaround:

Install Microsoft hotfix KB974168.

5.4 Oracle RAC Patch Not Supported

Oracle RAC patch from Oracle Enterprise Manager Database Control is not supported.

Workaround:

Run `OPatch` to apply patches to Oracle RAC databases.

This issue is tracked with Oracle bug 9128255.

5.5 Incorrect Reverse Ping Command from Oracle Management Service (OMS)

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

```
emdrep.ping.pingCommand=ping <hostname>
```

Workaround:

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

```
ping -n 3 -w 30000 <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.

5.6 Installing Online Patches on Windows Systems

The Opatch tool shipped with Oracle Database 11g Release 2 fails while applying online patches on Windows systems.

Workaround:

Opatch tool version 11.2.0.1.1 is available on My Oracle Support as Patch 6880880 for Oracle Database 11g Release 2. Download and install Opatch Tool version 11.2.0.1.1 before applying online patches on Windows systems.

To list the database instances patched by an online patch, run the `opatch lsinventory -details` command. Ensure that you run the `opatch rollback` command instead of `opatch disableOnlinepatch` command to disable and remove an online patch from the final database instance in a node. To remove the online patch that is in a disabled state, run the `disableOnlinepatch` command. To remove the online patch in a disabled state, use `-no_sysmod` flag with `opatch rollback` command, only when `opatch lsinv -details` does not list any instances for that patch. For example, use `opatch rollback -id 1234 -no_sysmod`, only when `opatch lsinv -details` show no instances patched for bug 1234.

This issue is tracked with Oracle bugs 8843060 and 9440270.

5.7 File Systems Mounted with Drive Letters on Oracle ADVM Volumes Are Not Visible in Windows Explorer

When the Oracle ACFS mount registry resource or the Oracle ACFS individual file system resource mounts an Oracle ADVM volume on a drive letter, the drive is not visible in Windows Explorer. This only affects the visibility of the drive letter in Windows Explorer; the volume is mounted and fully accessible using the command line, and is visible using the `acfsutil.exe` utility.

Workaround:

You must log out of your Windows session and log back in to view the driver letter in Windows Explorer.

This issue is tracked with Oracle bug 9343876.

5.8 Download Microsoft Handle Utility When Using Oracle ACFS

The Microsoft handle utility is required for proper operation of Oracle ACFS High Availability resources managed by Oracle Clusterware. Oracle Clusterware resources may not shut down properly if this command is not included.

Workaround:

Download the Microsoft Handle utility from:

<http://technet.microsoft.com/en-us/sysinternals/bb896655.aspx>

After downloading, place the Handle utility in the BIN directory of your Grid home.

Note: Ensure that the Grid home is included in the PATH environment variable for your current session.

This issue is tracked with Oracle bug 9349433.

5.9 Grid Naming Service (GNS) Failure

Using the node name instead of an IP address is supported when adding GNS to a cluster, but may fail because the name cannot be resolved.

Workaround:

Ensure that the node name is entered correctly. You can also use the IP address assigned to the node instead of the node name.

This issue is tracked with Oracle bug 9391290.

5.10 Oracle Grid Infrastructure Listeners Issue

After installing Oracle grid infrastructure, the default listener does not listen on public addresses. As a result, even though the listener is available, the listener does not service the database or Oracle ASM instances.

Workaround 1:

If you are not using GNS with DHCP, then perform the following steps:

1. Add the local IP address and host name information to
Systemroot%\System32\Drivers\Etc\Hosts.

For example, IP address host name such as 192.0.2.254 dbhost.

2. Restart the Oracle grid infrastructure listener.

This issue is tracked with Oracle bug 9382523.

Workaround 2:

If you have configured GNS and use DHCP to assign the addresses for the cluster nodes, then configure DHCP so that the IP address assigned to the host name for each cluster node (the public IP address) has a smaller numeric value than the IP addresses

assigned for the Virtual IP (VIP) address, GNS VIP address, or SCAN VIP address for a node.

For example, you could use IP addresses in the range of xxx.xxx.xxx.0 – xxx.xxx.xxx.099 for only host IP addresses, and all other IP address assignments must use a value of xxx.xxx.xxx.100 or higher.

This issue is tracked with Oracle bug 9441288.

5.11 Shared Oracle Home Shortcuts Do Not Work on Windows Server 2008

Starting Oracle tools such as Net Configuration Assistant, Database Configuration Assistant, Database Upgrade Assistant, Net Manager, Oracle Universal Installer, and so on, from a shared Oracle home shortcut gives the following error:

```
Missing shortcut: windows is searching launch.exe
```

After displaying the error message, the shortcut exits.

Workaround:

Start the tools with Administrator privileges.

This issue is tracked with Oracle bug 7525053.

5.12 addNode.bat Script Shows Success Even When One or More Node Additions Fail

When running the `addNode.bat` script to add one or more nodes to your cluster, if there was a failure during any installation on any of the new nodes, they are removed from the list of nodes to be adding to the cluster. As a result the `updatenodelist` command called at the end of the node addition process returns a status of success even if there was a failure in adding a node.

Workaround:

None. Verify that the new nodes are correctly added to the `nodelist` at the end of `addNode` procedure. If not, check the `addNode` logs for any error messages. Correct the problem and repeat the `addNode` procedure.

This issue is tracked with Oracle bug 9481472.

5.13 Inventory Issue with addNode.bat Script

After running the `addNode.bat` script, the inventory on the new nodes does not reflect the newly added home.

Workaround:

On the node being added by the `addNode.bat` script, do the following:

CRS or Grid Home

```
cd Grid_home\oui\bin
```

If you have a non-shared home, then run the following command:

```
attachHome.bat "CLUSTER_NODES={comma separated node list}" CRS=TRUE -local
```

If you have a shared home, then run the following command:

```
attachHome.bat "CLUSTER_NODES={comma separated node list}" CRS=TRUE -cfs -local
```

Database or Oracle RAC Home

```
cd RAC_home\oui\bin
```

If you have a non-shared home, then run the following command:

```
attachHome.bat "CLUSTER_NODES={comma separated node list}" -local
```

If you have a shared home, then run the following command:

```
attachHome.bat "CLUSTER_NODES={comma separated node list}" -cfs -local
```

This issue is tracked with Oracle bugs 9544552 and 9541191.

5.14 Data Pump Worker Processes Do Not Run on Different Oracle RAC Instances

When running a Data Pump job in an Oracle RAC environment, if you specify a value greater than 1, then Data Pump should utilize the Oracle RAC resources and start additional worker processes on other nodes in the cluster up to the value of the parallel parameter. However, for Windows systems, all the Data Pump processes run on the instance where the job is created; worker processes on other nodes are not started.

Workaround:

None.

This issue is tracked with Oracle bug 9448829.

5.15 ORA_DBA Group Not Created By addNode.bat Script

When you use the `addNode.bat` script to add a node to your cluster, the operating system group `ORA_DBA` is not created on the nodes being added to the cluster or the user running the `addNode.bat` script is not added to the `ORA_DBA` group on the nodes being added to the cluster. This causes the `root.bat` script to fail.

Workarounds:

1. If you have not yet run the `root.bat` script as prompted by `addNode.bat`, then you can manually create the `ORA_DBA` operating system group on the nodes being added to the cluster and add the user that is running the `addNode.bat` script to that `ORA_DBA` group.

When installing software in a cluster or adding a node to a cluster, the same operating system user performing the installation on the first node must exist on each node, and the user must be explicitly declared as a member of the local Administrators group and the `ORA_DBA` group on each node in the cluster.

Alternatively, you can run the following command from Oracle home in which Oracle Clusterware is installed as the user that runs `addNode.bat`:

```
%ORACLE_HOME%\bin\oradim.exe -ex network useradd ora_dba  
%USERDOMAIN%\%USERNAME% "Oracle DBA Group"
```

2. If you have already run the `root.bat` script and it failed, then perform the following steps:

1. Deconfigure Oracle Clusterware on the nodes being added to the cluster:

```
cd %ORACLE_HOME%\crs\install
perl rootcrs.pl -deconfig -force
```

2. Perform the workaround 1 and rerun the `root.bat` script.

This issue is tracked with Oracle bug 9525501.

5.16 ODP.NET Help Not Installed on 64-Bit Windows

If you install 32-bit Oracle software on a 64-bit Windows computer, then help for ODP.NET is not installed.

Workaround:

Use the .NET Help Setup Wizard to manually install the dynamic help. To start the wizard on an English locale, run the `DataProviderHelp_en.msi` file from the `%ORACLE_HOME%\ODP.NET\help` directory. For the Japanese locale, run the `DataProviderHelp_ja.msi` file from the same directory.

This issue is tracked with Oracle bug 9524039.

5.17 Oracle ACFS As DB Home and LOB Files

When using Oracle ACFS as a DB Home, if LOB files will be used, the Oracle ACFS DB Home must be of the format, `DRIVE_LETTER:\directory`. For example:

```
g:\dir
g:\dir1\dir2
```

Otherwise, LOB related errors will be shown when accessing the LOB (as is the case in the sample schema for a basic installation). For example:

```
ERROR at line 1:
ORA-22288: file or LOB operation FILEOPEN failed
ORA-06512: at "SYS.DBMS_LOB", line 744
ORA-06512: at "XDB.DBMS_XDB", line 301
ORA-06512: at line 4
```

See ["File Systems Mounted with Drive Letters on Oracle ADVM Volumes Are Not Visible in Windows Explorer"](#) for related information. If you are not using a drive letter for the Oracle ACFS DB Home, then several LOB related popups will appear during sample schema install due to this issue.

Workaround:

Click to ignore these errors if you want to proceed, or click to abort the database creation.

This issue is tracked with Oracle bug 9527303.

5.18 Oracle ACFS Recommendation for CRS Stack Shutdown

Under certain conditions, errors may be issued during CRS stack shutdown relating to activity on Oracle ACFS file systems:

```
acfsdismount: ACFS-04007: dismount failed due to open files on the volume
\app\crstest\product\11.2.0\dbhome_1\bin: No such file or directory at
C:\app\11.2.0\grid\lib\osds_acfslib.pm line 609
```

Workaround:

To avoid these errors, unmount all Oracle ACFS file systems manually prior to CRS stack shutdown. The Windows `handle` and `wmic` commands can be used to identify processes which are active on the file systems. Ensure that these processes are no longer active, unmount all ACFS file systems, then reissue CRS stack shutdown.

This issue is tracked with Oracle bugs 9539710 and 9445489.

5.19 Oracle Notification Service (ONS) Fails to Stop During CRS Stack Shutdown

You might encounter the following error during shutdown of a CRS stack on a node:

```
CRS-5016 (or CRS-2675): stop action failed for ora.eons resource
```

Workaround:

Perform the following steps:

1. Disable `ora.eons` resource on the node by running the following command:

```
crsctl modify resource ora.eons -attr "ENABLED@SERVERNAME(nodename)=0"
```

2. Find and stop the java process for the `ora.eons` resource, `oracle.supercluster.impl.cluster.EONSServerImpl`.

To determine the process ID (PID) of the process, you can use a utility such as the Microsoft Windows Management Utility. For example:

```
wmic RETURN process
```

To stop the process, use the following command:

```
kill -f PID of the java process
```

3. Stop the CRS stack on the node by running the following command:

```
crsctl stop cluster -n nodename
```

Ignore the error messages displayed on the console during the shutdown. The stack is stopped at the end of the process.

4. Restart the CRS stack by running the following command:

```
crsctl start cluster -n nodename
```

5. Enable the `ora.eons` resource by running the following command:

```
crsctl modify resource ora.eons -attr "ENABLED@SERVERNAME(nodename)=1"
```

6. Start the `ora.eons` resource by running the command:

```
crsctl start res ora.eons -n nodename
```

This issue is tracked with Oracle bug 9524640.

5.20 Global Services Daemon (GSD) Resource Shows ONLINE After a CRS Stack Restart

The GSD resource should stay OFFLINE in a cluster environment when there are no Oracle 9i databases configured. After you restart the Oracle Clusteware stack, it is

possible the GSD resource status could be changed to ONLINE. There is no issue with keeping the GSD resource ONLINE, but if this resource is not needed (there are no Oracle 9i databases to be managed) and you want to keep this resource OFFLINE, then use the suggested workaround.

Workaround:

Use the following command to stop GSD on all the nodes:

```
srvctl stop nodeapps -g
```

Also, ensure that the file, *Grid_home\admin\gsd.pid*, does not exist on any of the cluster nodes.

This issue is tracked with Oracle bug 9489026.

5.21 VIP Does Not Fail Back When Public Network Interface Card (NIC) Status Changes Rapidly

If the Public NIC is disabled and enabled within a short span of time, then the VIP resources do not fail back to the node where the NIC was enabled.

Workaround:

Use CRSCTL to relocate the node VIP:

```
crsctl relocate res ora.nodename.vip -n nodename
```

This issue is tracked with Oracle bug 9369822.

5.22 cluvfy.bat Fails to Check Shared Resource Status for Node Addition

When you use `cluvfy.bat` to validate the new node to be added to a cluster with OCFS-based OCR and voting disks, `cluvfy.bat` displays an error message stating that the resources are not shared.

Workaround:

You can ignore this error message.

This issue is tracked with Oracle bug 9546850.

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