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Preface

This document describes last-minute features and changes that are not included in the Oracle Database Documentation Library for Oracle Database 19c.

Starting with Oracle Database 18c, the readme and platform-specific release notes have been combined into one document. The first chapter of this document contains generic information. Subsequent chapters of this document contain platform-specific information. The last chapter of this document contains last-minute changes not included in the Oracle Database documentation library.

• Audience
• Documentation Accessibility
• Related Resources
• Conventions

Audience

This document is relevant only to Oracle Database 19c and documents new features, changes, unsupported products, preinstallation requirements, generic and platform-specific bug fixes, and known issues that are not included in the Oracle Database documentation library.

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 that have purchased support 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.

Related Resources

Refer to the following documentation for more information related to this release:

• http://docs.oracle.com/en/database/database.html
• For licensing information, refer to Oracle Database Licensing Information User Manual.
• Additional readme or release notes files also exist. Refer to Other Readmes, Release Notes, or Installation Guides.

Conventions

The following text conventions are used in this document:

<table>
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<tr>
<th>Convention</th>
<th>Meaning</th>
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<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td><code>monospace</code></td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
1 Purpose of These Release Notes

This topic briefly describes the purpose of these release notes.

Updates to this document can occur after it is released. Check for updates to this document and view other Oracle documentation at:


For licensing information, refer to Oracle Database Licensing Information User Manual.

Additional readme or release notes files also exist. Refer to the Other Readmes, Release Notes, or Installation Guides.
Issues Affecting All Platforms for Oracle Database 19c

These topics contain last-minute features and changes that affect all platforms for Oracle Database 19c.

- **Compatibility, Upgrading, Downgrading, and Installation**
  This section describes compatibility, upgrading, downgrading, and installation topics for Oracle Database 19c.

- **Deprecated and Desupported Features for Oracle Database**
  This topic describes deprecated and desupported features for Oracle Database 19c.

- **Other Readmes, Release Notes, or Installation Guides**
  There are additional documents for Oracle products that are associated with this Oracle Database release.

- **Open Bugs Affecting All Platforms**
  This section describes known bugs in Oracle Database 19c that affect all platforms.

### Compatibility, Upgrading, Downgrading, and Installation

This section describes compatibility, upgrading, downgrading, and installation topics for Oracle Database 19c.

- **Core Dump ORA-00600 [8153] Error Encountered After Database Upgrade**
  This topic describes the ORA-00600 error that can occur after a database upgrade.

- **Upgrading from Oracle Database 11g Release 2 (11.2.0.4) to 19c to Oracle Database Results in Errors During Upgrade**
  This topic describes the ORA-08102 error that can occur when upgrading from Oracle Database 11g release 2 (11.2.0.4) to Oracle Database 19c.

- **Plugging in an Oracle Database 12.1 Non-CDB to an Oracle Database 12.2 Local Undo CDB**
  This topic describes undo tablespaces are not plugged in when going from Oracle Database release 12.1 to release 12.2.

### Core Dump ORA-00600 [8153] Error Encountered After Database Upgrade

This topic describes the ORA-00600 error that can occur after a database upgrade.

A core dump ORA-00600 [8153] error is encountered after the database is upgraded to Oracle Database 12c release 2 (12.2) or to Oracle Database 19c and then downgraded back to its original release (reference Bug 20898997).
Always apply the patch for this bug before upgrading the database to Oracle Database 12c release 2 (12.2) or to Oracle Database 19c.

Upgrading from Oracle Database 11g Release 2 (11.2.0.4) to 19c to Oracle Database Results in Errors During Upgrade

This topic describes the ORA-08102 error that can occur when upgrading from Oracle Database 11g release 2 (11.2.0.4) to Oracle Database 19c.

In some cases, when altering table WRH$_SEG_STAT to add some columns, you may encounter the ORA-08102 error (reference Bug 28668676). For example:

```
ALTER TABLE WRH$_SEG_STAT ADD (im_membytes NUMBER DEFAULT 0);
ALTER TABLE WRH$_SEG_STAT ADD (im_membytes NUMBER DEFAULT 0)
*  
ERROR at line 1:
ORA-08102: index key not found, obj# 16200, file 2, block 4765 (2)
```

Download c18.sql and c1202000.sql from the bug and restart the upgrade process.

Plugging in an Oracle Database 12.1 Non-CDB to an Oracle Database 12.2 Local Undo CDB

This topic describes undo tablespaces are not plugged in when going from Oracle Database release 12.1 to release 12.2.

When trying to plug in an Oracle Database 12c Release 1 (12.1) non-CDB to an Oracle Database 12c Release 2 (12.2) or higher CDB and local undo is enabled, undo tablespaces are not plugged in.

Workaround:

None.

Deprecated and Desupported Features for Oracle Database

This topic describes deprecated and desupported features for Oracle Database 19c.

Oracle Database 19c introduces behavior changes for your database in addition to new features. Changes in behavior include deprecated and desupported initialization parameters, options, syntax, and the deprecation and desupport of features and components. For more information, see the Oracle Database Upgrade Guide.

Other Readmes, Release Notes, or Installation Guides

There are additional documents for Oracle products that are associated with this Oracle Database release.

Refer to the following Oracle products and the location of their associated readme, release notes, or installation guide for additional information:
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<td>Oracle Application Express Release Notes and the Oracle Application Express Installation Guide.</td>
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<td>Oracle Multimedia</td>
<td>ORACLE_HOME/ord/im/admin/README.txt</td>
</tr>
<tr>
<td>Oracle ODBC Driver</td>
<td>Oracle ODBC Driver Release Notes</td>
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<tr>
<td>Oracle SQL Developer</td>
<td>ORACLE_HOME/sqldeveloper/readme.html</td>
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<tr>
<td>Pro*C</td>
<td>Pro*C/C++ Release Notes</td>
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<tr>
<td>Pro*COBOL</td>
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<td>SQL*Plus</td>
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Open Bugs Affecting All Platforms

This section describes known bugs in Oracle Database 19c that affect all platforms.

- **Analytic Workspace Manager Known Bugs**
  These are the Analytic Workspace Manager bugs in Oracle Database 19c.

- **Oracle ASM Cluster File System (Oracle ACFS) Known Bugs**
  These are the Oracle Automatic Storage Management (Oracle ASM) Cluster File System (Oracle ACFS) bugs in Oracle Database 19c.

- **Oracle ASM Dynamic Volume Manager (Oracle ADVM) Known Bugs**
  These are the Oracle Automatic Storage Management (Oracle ASM) Dynamic Volume Manager (Oracle ADVM) bugs in Oracle Database 19c.

- **Oracle Data Pump Known Bugs**
  These are the Oracle Data Pump bugs in Oracle Database 19c.

- **Oracle Database Enterprise Edition Known Bugs**
  These are the Oracle Database Enterprise Edition bugs in Oracle Database 19c.

- **Oracle Grid Infrastructure Known Bugs**
  These are the Oracle Grid Infrastructure bugs in Oracle Database 19c.

- **Oracle Universal Installer Known Bugs**
  These are the Oracle Universal Installer (OUI) bugs in Oracle Database 19c.

**Analytic Workspace Manager Known Bugs**

These are the Analytic Workspace Manager bugs in Oracle Database 19c.

- Bug 28937717
- Bug 28532773

**Bug 28937717**

Measures cannot be calculated in the Create Calculation Measure wizard.

**Workaround:**

None.
Bug 28532773

Cube Storage Advisor fails with the following error:

ORA-00942 table or view not found

Workaround:

None.

Oracle ASM Cluster File System (Oracle ACFS) Known Bugs

These are the Oracle Automatic Storage Management (Oracle ASM) Cluster File System (Oracle ACFS) bugs in Oracle Database 19c.

• Bug 29391849

Bug 29391849

After an upgrade to either Oracle Grid 18.x or 19.x is complete, a subsequent upgrade to Oracle Grid 18.y or 19.y results in the Oracle Automatic Storage Management Cluster File System (Oracle ACFS) being offline on the first node being upgraded. This issue does not occur on a fresh installation of Oracle Grid 19c or 18c.

Workaround:

• To avoid this issue:
  1. Complete the upgrade from Oracle Grid 12c Release 1 (12.1.0.2) or Oracle Grid 12c Release 2 (12.2) to Oracle Grid 18.x or 19.x.
  2. Restart Cluster Ready Services (CRS) on each node, restarting the master node last. For example:
     a. Run `acfsutil clusterinfo | grep -i master`.
     b. Restart CRS on each non-master node, in any order.
     c. Restart CRS on the master node last.
  3. Then, upgrade from Oracle Grid 18.x or 19.x to Oracle Grid 18.y or 19.y.
• If you have completed the upgrade from Oracle Grid 12.1.0.2 or 12.2 to Oracle Grid 18.x or 19.x, and have started the upgrade to Oracle Grid 18.y or 19.y, and if you see the Oracle Automatic Storage Management Dynamic Volume Manager (Oracle ADVM) volumes offline on the node that you have upgraded, then:
  1. Roll back that node to Oracle Grid 18.x or 19.x.
  2. Restart CRS on each node, restarting the master node last.
     a. Run `acfsutil clusterinfo | grep -i master`.
     b. Restart CRS on each non master node, in any order.
     c. Restart CRS on the master node last.
  3. Then, upgrade from Oracle Grid 18.x or 19.x to Oracle Grid 18.y or 19.y.
Oracle ASM Dynamic Volume Manager (Oracle ADVM) Known Bugs

These are the Oracle Automatic Storage Management (Oracle ASM) Dynamic Volume Manager (Oracle ADVM) bugs in Oracle Database 19c.

- Bug 29520544

Bug 29520544

Upgrading to Oracle Grid 19c or 18c can cause unnecessary disk resilvering (if using more than 1 MB of allocation units (AU)). This issue does not occur on a fresh installation of Oracle Grid 19c or 18c.

**Workaround:**

Apply the patch for 29520544 before upgrading to Oracle Grid 19c or 18c. Note that the patch can be applied on the initiating system (Oracle Grid 12c Release 1 (12.1.0.2) or Oracle Grid 12c Release 2 (12.2)) before the upgrade or the patch can be applied on the receiving system (Oracle Grid 19c or 18c) before the upgrade.

Allow resilvering to complete. This is a one-time operation. Once the resilvering completes, performance returns to normal.

Oracle Data Pump Known Bugs

These are the Oracle Data Pump bugs in Oracle Database 19c.

- Bug 27133957
- Bug 27092988

Bug 27133957

If you use the %u or %l wildcard character in the file name component of a Uniform Resource Identifier (URI) during a Data Pump load, you receive the following errors:

ORA-31640: unable to open dump file

ORA-17503: ksfdopn:11 Failed to open file

ORA-17500: ODM err:ODM HTTP Bad Request

**Workaround:**

Do not use wildcards. Instead, list every file name as part of the DUMPFILE parameter.

Bug 27092988

In releases prior to Oracle Database 19c, the Oracle Data Pump always enabled secure roles that were granted to the user running the data pump. Starting in Oracle Database 19c, the data pump no longer enables these roles by default. There is a new parameter, ENABLE_SECURE_ROLES, to control whether those roles should be enabled for the data pump job.
Oracle Database Enterprise Edition Known Bugs

These are the Oracle Database Enterprise Edition bugs in Oracle Database 19c.

- Bug 23569490
- Bug 24291322
- Bug 27254644

Bug 23569490

If you have a large number of collections and are working with clients earlier than Oracle Database 12c release 2 (12.2), then you need a larger object cache, due to a change in snapshot size and thus a need for collection image conversion.

Workaround:

The object cache size can be set using the `OBJECT_CACHE_OPTIMAL_SIZE` initialization parameter. This is set to a low value by default.

Bug 24291322

Symbolic links are not allowed in the directory object paths or filenames when opening BFILEs. The entire directory path and filename is checked and the following error is returned if any symbolic link is found:

`ORA-22288: file or LOB operation FILEOPEN failed soft link in path`

Workaround:

If the database directory object or filename that you are trying to open contains symbolic links, then change it to provide the real path and filename.

Bug 27254644

During the Oracle Scheduler agent register database process (`schagent -register-database`), the following warning message might be issued:

"Warning: The JKS keystore uses a proprietary format. It is recommended to migrate to PKCS12 which is an industry standard format using..."

Workaround:

This warning message is due to a new Java runtime update. There is no change in the Oracle Scheduler agent usage of keystores (`jks files`). You can ignore this warning message.
Oracle Grid Infrastructure Known Bugs

These are the Oracle Grid Infrastructure bugs in Oracle Database 19c.

- Bug 29414664
- Bug 29053083
- Bug 21559133

Bug 29414664

The Help text for command `rhpctl instantiate image` does not show the `-server` option.

Workaround:

When instantiating an image between two Fleet Patching and Provisioning (FPP) servers whose peer-to-peer relationship has already been established, use the command `rhpctl instantiate image` with the `-server` option specifying the remote FPP server from which to instantiate the given image.

Bug 29053083

The Grid Naming Service (GNS) manifest file validation fails.

Workaround:

Do not add GNS while creating a member cluster manifest file.

Bug 21559133

This issue affects rolling upgrades from Oracle Grid Infrastructure 12c release 1 (12.1) to Oracle Grid Infrastructure 19c of Oracle Clusterware standard Cluster with Oracle ASM. A node running Oracle Grid Infrastructure 12c release 1 (12.1) cannot join the cluster after the first node has been upgraded to Oracle Grid Infrastructure 19c. The nodes running Oracle Grid Infrastructure 12c release 1 (12.1) that are in ONLINE status continue to be members of the cluster.

Workaround:

Upgrade Oracle Grid Infrastructure from 12c release 1 (12.1) to 19c on the failed node.

Oracle Universal Installer Known Bugs

These are the Oracle Universal Installer (OUI) bugs in Oracle Database 19c.

You should also review Compatibility, Upgrading, Downgrading, and Installation for other issues related to installation and upgrades.

- Bug 18336219
- Bug 23006768
- Bug 27080535
- Bug 27120934
Bug 18336219

Oracle Database installer does not check if the password specified for ASMSNMP on the Specify Management Options screen is correct. If you proceed with the configuration and specify an incorrect password, then Oracle Enterprise Manager Cloud Control cannot discover details and monitor the Oracle ASM instance.

Workaround #1:

Ensure that the correct password (the same password specified earlier during the Oracle Grid Infrastructure for a cluster installation) is specified in the Specify Management Options screen of Oracle Database installer.

Workaround #2:

On the Oracle Enterprise Manager Cloud Control portal, navigate to the Oracle ASM credentials screen and update the password for ASMSNMP. Once the password is saved on Oracle Enterprise Manager Cloud Control, the Oracle ASM monitoring starts working.

Bug 23006768

When installing an Oracle RAC database on an Oracle Member Cluster for Database that is configured to use an Oracle ASM service of an Oracle Domain Services Cluster (DSC) and, if the network selected for ASM or ASM & Private usage is not of the same type as the Oracle ASM network of the DSC, then the database instance terminates with the following error:

IOS hit ORA-00600: internal error code, arguments: [kfias_creg!net]

Workaround:

During the installation of the Oracle Member Cluster for Database, choose the network interface for ASM or ASM & Private so that it is on the same network as the Oracle ASM network of the DSC.

Bug 27080535

When deinstalling the Oracle Grid Infrastructure for a standalone server home with an Oracle Management Server configuration, the emConfig.txt file in ORACLE_BASE/admin/emca is not deleted.

Workaround:

To remove the emConfig.txt file, run the following command:

```
rm -rf $ORACLE_BASE/admin/emca/emConfig.txt
```

During the last ORACLE_HOME deinstallation, to remove ORACLE_BASE, run the following command after the deinstallation tool exits:

```
rm -rf $ORACLE_BASE
```
Bug 27120934

After downgrading Oracle Clusterware using the Grid Setup Wizard, from Oracle Database 19c to Oracle Clusterware release 12.1 or release 11.2, the unused data files of the Oracle Grid Infrastructure Management Repository (GIMR) of the 19c Oracle Grid Infrastructure home could still be present in the disk group.

Workaround:

Before starting the downgrade procedure using the Grid Setup Wizard, delete the GIMR database using the following command:

```
<Active_GI_HOME>/bin/dbca -silent -deleteDatabase -sourceDB -MGMTDB
```
Issues Affecting Linux for Oracle Database 19c

These topics contain last-minute features and changes for Linux for Oracle Database 19c.

- **Unsupported Products for Linux**
  This topic describes products or features that are unavailable for Oracle Database 19c.

- **Product Support**
  This topic describes the supported products or features for Oracle Database 19c.

- **Linking Applications with Oracle Client Libraries for Linux**
  You must use the dynamic Oracle client libraries to link the client code on Linux.

- **Preinstallation Requirements for the Linux Platform**
  Refer to the installation guides for the preinstallation requirements for Oracle Database 19c.

- **Open Bugs Affecting Linux**
  This topic contains last-minute features and changes for Oracle Database 19c.

## Unsupported Products for Linux

This topic describes products or features that are unavailable for Oracle Database 19c.

In addition to the list of unavailable products or features in this release of Oracle Database 19c, the following product is not supported for Linux:

- **IPv6 Networks Support**
  The IPv6 based IP addresses to configure the private networks for a cluster is not supported on IBM: Linux on System z. It is currently under testing and the support will be announced after testing is successfully complete.

## Product Support

This topic describes the supported products or features for Oracle Database 19c.

The supported products or features are:

- **Database Smart Flash Cache Support**
  Database Smart Flash Cache is supported on Oracle Linux.

- **Oracle ACFS and Oracle ADVM Support**
  Although Oracle ADVM supports raw disks in Oracle Automatic Storage Management disk groups, Oracle ADVM device special files created through raw are not supported; Oracle ADVM only supports block device special files.
For the latest information about supported platforms and releases, see the Note 1369107.1 on My Oracle Support at https://support.oracle.com

- **Oracle ASM Filter Driver Support**
  Oracle Automatic Storage Management Filter Driver (Oracle ASMFD) is supported only on Linux x86-64.

- **Share-based Instance Caging**
  Share-based Instance Caging is supported on Oracle Linux.

## Linking Applications with Oracle Client Libraries for Linux

You must use the dynamic Oracle client libraries to link the client code on Linux.

Do not link the static Oracle client libraries.

## Preinstallation Requirements for the Linux Platform

Refer to the installation guides for the preinstallation requirements for Oracle Database 19c.

## Open Bugs Affecting Linux

This topic contains last-minute features and changes for Oracle Database 19c.

- **Bug 26708302**

### Bug 26708302

Deinstallation of Oracle Real Application Clusters (Oracle RAC) home on shared Network Attached Storage (NAS) fails to delete the directory `$ORACLE_HOME/deinstall` and returns the following error:

Failed to delete the directory `$ORACLE_HOME/deinstall`. Either user has no permission to delete or it is in use.

**Workaround:**

Manually delete the `$ORACLE_HOME/deinstall` folder as either the Oracle RAC owner or as root.
4

Issues Affecting Oracle Solaris for Oracle Database 19c

These topics contain last-minute features and changes for Oracle Solaris for Oracle Database 19c.

- **Unsupported Products for Oracle Solaris**
  In addition to the list of unavailable products or features in this release of Oracle Database 19c, the following product is not supported for Oracle Solaris:

- **Product Support**
  These are the supported products or features for Oracle Database 19c:

- **Linking Applications with Oracle Client Libraries for Oracle Solaris**
  You must use the dynamic Oracle client libraries to link the client code on Oracle Solaris.

- **Preinstallation Requirements for Oracle Solaris**
  Refer to the installation guides for the preinstallation requirements for Oracle Database 19c.

- **Installation, Configuration, and Upgrade Issues for Oracle Solaris**
  These topics describe information about issues that affect Oracle Database installation, configuration, and upgrade.

- **Open Bugs Affecting Oracle Solaris**
  There are no open bugs affecting Oracle Solaris at the time of the release.

**Unsupported Products for Oracle Solaris**

In addition to the list of unavailable products or features in this release of Oracle Database 19c, the following product is not supported for Oracle Solaris:

- **Net Configuration Assistant Support**

**Bug 21816875**

Net Configuration Assistant (NETCA) is not supported on Oracle Solaris on SPARC (32-Bit) and Oracle Solaris on x86 (32-Bit) client platforms.

**Product Support**

These are the supported products or features for Oracle Database 19c:

- **Oracle Solaris Support on SPARC**
  Oracle Database 19c is supported on Oracle Solaris on SPARC (64-bit).
• Database Smart Flash Cache Support
  Database Smart Flash Cache is supported on Oracle Solaris.

• Oracle ACFS and Oracle ADVM Support
  Although Oracle ADVM supports raw disks in Oracle Automatic Storage Management disk groups, Oracle ADVM device special files created through raw are not supported; Oracle ADVM only supports block device special files.

  For the latest information about supported platforms and releases, see the Note 1369107.1 on My Oracle Support at https://support.oracle.com

Linking Applications with Oracle Client Libraries for Oracle Solaris

You must use the dynamic Oracle client libraries to link the client code on Oracle Solaris.

Do not link the static Oracle client libraries.

Preinstallation Requirements for Oracle Solaris

Refer to the installation guides for the preinstallation requirements for Oracle Database 19c.

Installation, Configuration, and Upgrade Issues for Oracle Solaris

These topics describe information about issues that affect Oracle Database installation, configuration, and upgrade.

• Bug 21800407
• Bug 28650933

Bug 21800407

When installing Oracle Database for English and Japanese environments, the background font incorrectly displays yellow color for the Oracle Universal Installer (OUI), Database Configuration Assistant (DBCA), and Database Upgrade Assistant (DBUA) pages.

Workaround:

Prior to installing Oracle Database, run the following command:

```bash
export _JAVA_OPTIONS=-Dsun.java2d.xrender=false
```

Bug 28650933

Installing and using Oracle Secure Backup 12.2 on Oracle Solaris 11.4 may fail if the library libnls.so is not available in standard system library paths, since the Oracle Secure Backup libraries depend on libnls.so.
Workaround:

Upgrade the Oracle Solaris OS version to Oracle Solaris 11.4.6.4.0. and then install Oracle Secure Backup 12.2. Alternate workaround is to copy the file `/usr/lib64/libnls.so.1` from an Oracle Solaris 11.3 machine to the `/usr/lib64` path in the Oracle Solaris 11.4 machine where Oracle Secure Backup 12.2 needs to be installed.

Open Bugs Affecting Oracle Solaris

There are no open bugs affecting Oracle Solaris at the time of the release.
These topics contain last-minute features and changes for HP-UX Itanium for Oracle Database 19c.

- **Unsupported Products for HP-UX Itanium**
  In addition to the list of unavailable products or features in this release of Oracle Database 19c, the following products and features are not supported:

- **Product Support**
  There are no supported products or features for Oracle Database 19c on HP-UX Itanium at this time.

- **Linking Applications with Oracle Client Libraries for HP-UX Itanium**
  You must use the dynamic Oracle client libraries to link the client code on HP-UX Itanium.

- **Preinstallation Requirements for HP-UX Itanium**
  Refer to the installation guides for the preinstallation requirements for Oracle Database 19c.

- **Installation, Configuration, and Upgrade Issues for HP-UX Itanium**
  This topic describes information about issues that affect Oracle Database installation, configuration, and upgrade.

### Unsupported Products for HP-UX Itanium

In addition to the list of unavailable products or features in this release of Oracle Database 19c, the following products and features are not supported:

- Database Smart Flash Cache Support
- Oracle ASM Filter Driver Support

### Product Support

There are no supported products or features for Oracle Database 19c on HP-UX Itanium at this time.

### Linking Applications with Oracle Client Libraries for HP-UX Itanium

You must use the dynamic Oracle client libraries to link the client code on HP-UX Itanium.

Do not link the static Oracle client libraries.
Preinstallation Requirements for HP-UX Itanium

Refer to the installation guides for the preinstallation requirements for Oracle Database 19c.

Installation, Configuration, and Upgrade Issues for HP-UX Itanium

This topic describes information about issues that affect Oracle Database installation, configuration, and upgrade.

- Bug 27367949
- Bug 28340043
- Bug 29198896

Bug 27367949

In some Oracle Database installation scenarios, Database Upgrade Assistant (DBUA) reports a prerequisite checks failure, and returns the following error:

```
Oracle OLAP API UPGRADED 18.1.0.0.0 00:00:18
Upgrade Datapatch Error: prereq checks failed!
Upgrade Datapatch 00:00:37
```

Further `catupgrd_datapatch_normal.log` returns the following error:

```
Connecting to database...OK
Gathering database info...done
Bootstrapping registry and package to current versions...done
Error: prereq checks failed!
verify_queryable_inventory returned ORA-20001: Latest xml inventory is not loaded into table
Prereq check failed, exiting without installing any patches.
```

Workaround:

Start DBUA as a user with the same group ID as that of the Oracle user that owns the Oracle Database 18c Oracle home.

For example, if the user `asmadmin` is the group owner of the Oracle home on your system, change the user primary group to the `asmadmin` group using `newgrp`:

```
bash-4.3$ ls -l $ORACLE_HOME/bin/oracle
-rw-r--r-- 1 oracle asmadmin 1133380232 Feb 14 00:36 bin/oracle
bash-4.3$ newgrp asmadmin
bash-4.3$ $ORACLE_HOME/bin/dbua
```
Bug 28340043

In some Oracle Database installation scenarios, creating database using Database Configuration Assistant (DBCA) results in INVALID JAVA VM component or database upgrade using Database Upgrade Assistant (DBUA) reports a prerequisite checks failure and returns the following error:

```
Oracle OLAP API UPGRADED 18.1.0.0.0 00:00:18
Upgrade Datapatch Error: prereq checks failed!
Upgrade Datapatch 00:00:37
```

Further `catupgd_datapatch_normal.log` returns the following error:

```
Connecting to database...OK
Gathering database info...done
Bootstrapping registry and package to current versions...done
Error: prereq checks failed!
verify_queryable_inventory returned ORA-20001: Latest xml inventory is not loaded into table
Prereq check failed, exiting without installing any patches.
```

Workaround:

Start DBCA or DBUA as a user with the same group ID as that of the Oracle user that owns the Oracle Database 18c Oracle home.

For example, if the user `asmadmin` is the group owner of the Oracle home on your system, change the user primary group to the `asmadmin` group using `newgrp`:

```
bash-4.3$ ls -l $ORACLE_HOME/bin/oracle
-rwsr-s--x 1 oracle asmadmin 1133380232 Feb 14 00:36 bin/oracle
bash-4.3$ newgrp asmadmin
bash-4.3$ $ORACLE_HOME/bin/dbua
```

Bug 29198896

While duplicating Oracle Database as standby using Database Configuration Assistant (DBCA), internally, RMAN DUPLICATE tries to copy the password file from Oracle Automatic Storage Management (Oracle ASM) to Non-ASM or vice-versa. The password file is copied, but the clone password file is not readable and returns the following error:

```
"ORA-01017: invalid username/password; logon denied" on clone instance reconnection"
```

Workaround:

If the source instance password file is on Oracle ASM, then define the clone instance password on Oracle ASM only, and when the source password file is on Non-ASM files system, then keep the clone instance password file on Non-ASM file system.
Issues Affecting the IBM AIX on POWER Systems Platform for Oracle Database 19c

These topics contain last-minute features and changes for Oracle Database 19c.

- Unsupported Products for the IBM AIX on POWER Systems Platform
- Linking Applications with Oracle Client Libraries for the IBM AIX on POWER Systems Platform
- Preinstallation Requirements for the IBM AIX on POWER Systems Platform
- Installation, Configuration, and Upgrade Issues for the IBM AIX on POWER Systems Platform
- Open Bugs Affecting the IBM AIX on POWER Systems Platform

Unsupported Products for the IBM AIX on POWER Systems Platform

There are no unsupported products for the IBM AIX on POWER Systems Platform at this time. Refer to the list of unavailable products or features for all platforms in Oracle Database 19c.

Linking Applications with Oracle Client Libraries for the IBM AIX on POWER Systems Platform

You must use the dynamic Oracle client libraries to link the client code on Linux. Do not link the static Oracle client libraries.

Preinstallation Requirements for the IBM AIX on POWER Systems Platform

Refer to the installation guides for the preinstallation requirements for Oracle Database 19c.

Installation, Configuration, and Upgrade Issues for the IBM AIX on POWER Systems Platform

These topics describe information about issues that affect Oracle Database installation, configuration, and upgrade.

- Bug 29053538
Bug 29053538

Oracle database instance at startup loads libora_netlib.so. This library has dependencies on IBM XL Fortran runtime libraries. If they are not installed on the system, startup fails with the following error:

ORA-40238: invalid linear algebra shared library

**Workaround:**

Install XL Fortran Runtime for AIX Fix Pack 10 (February 2018 PTF) for 15.1.

Download and install XL Fortran Runtime for AIX Fix Pack 10 (February 2018 PTF) for 15.1 from:

https://www-01.ibm.com/support/docview.wss?uid=swg24044611

Bug 29434250

If you install Oracle Database 19c or Oracle Grid Infrastructure 19c or upgrade Oracle Database 19c or Oracle Grid Infrastructure 19c from previous versions to 19c by registering with Enterprise Manager Cloud Control (EMCC), installer may crash.

**Workaround:**

Do not register with EMCC during install or upgrade. Instead, discover the host and add targets either using EMCC web console or Enterprise Manager Command Line Interface (EMCLI) commands after the install and upgrade is complete.

Bug 29052788

In some environments, every time the Dynamic Host Configuration Protocol (DHCP) lease is renewed, a different IP address is assigned. The Cross-Domain Protocol (CDP) daemon does not see these changes, and assumes the IP address has not changed unless the CDP resource is restarted. Example, when the SCAN is stopped. When the IP address changes, there is a window when CDP is unreachable by that IP, and the agent eventually executes a clean action and restarts.

**Workaround:**

If CDP is found to be offline when the SCAN VIP’s IP changes, then use `svrctl start cdp` to restart it.

Bug 29178036

The shutdown abort of Oracle RAC One Node Database software on IBM AIX on Power Systems 7.1 does not finish quickly and results in failing to failover.

**Workaround:**
IBM AIX on Power Systems 8 or later, and AIX 7.2 use hardware compression for Active Memory Expansion (AME) and therefore can support the use of 64k pages with AME. On AIX 7.1 or earlier, 64k pages are not supported when AME is enabled, and 4k pages are used instead. In certain scenarios when using 4k pages with the Oracle Database, certain operations may be slower, including startup and shutdown of the database. Use of AME with the Oracle RAC One Node Database software is not recommended unless using AIX 8 or later and AIX 7.2 or later with 64k pages enabled.

Open Bugs Affecting the IBM AIX on POWER Systems Platform

These topics contain last-minute features and changes for Oracle Database 19c.
Issues Affecting Microsoft Windows for Oracle Database 19c

These topics contain last-minute features and changes for Microsoft Windows for Oracle Database 19c.

- **Unsupported Products for Microsoft Windows**
  There are no unsupported Microsoft Windows-specific products at this time.

- **Product Support**
  This is the supported product or feature for Oracle Database 19c.

- **Linking Applications with Oracle Client Libraries for Microsoft Windows**
  You must use the dynamic Oracle client libraries to link the client code on Microsoft Windows.

- **Preinstallation Requirements for Microsoft Windows**
  Refer to the installation guides for the preinstallation requirements for Oracle Database 19c.

- **Installation, Configuration, and Upgrade Issues for Microsoft Windows**
  These topics describe information about issues that affect Oracle Database installation, configuration, and upgrade.

**Unsupported Products for Microsoft Windows**

There are no unsupported Microsoft Windows-specific products at this time.

**Product Support**

This is the supported product or feature for Oracle Database 19c.

- **Oracle ACFS and Oracle ADVM Support**
  Although Oracle ADVM supports raw disks in Oracle Automatic Storage Management disk groups, Oracle ADVM device special files created through raw are not supported; Oracle ADVM only supports block device special files.

  For the latest information about supported platforms and releases, see the Note 1369107.1 on My Oracle Support at [https://support.oracle.com](https://support.oracle.com)

**Linking Applications with Oracle Client Libraries for Microsoft Windows**

You must use the dynamic Oracle client libraries to link the client code on Microsoft Windows.

Do not link the static Oracle client libraries.
Preinstallation Requirements for Microsoft Windows

Refer to the installation guides for the preinstallation requirements for Oracle Database 19c.

Installation, Configuration, and Upgrade Issues for Microsoft Windows

These topics describe information about issues that affect Oracle Database installation, configuration, and upgrade.

• Bug 20918120
• Bug 21325903
• Bug 29426320

Bug 20918120

Installing Oracle Real Application Clusters Database home with a Group Managed Services Account (gMSA) as the Oracle home user, fails with the following error if the gMSA name consists of more than 15 characters (including the domain name):

[INS-32101] Specified Oracle Home user does not exist

Workaround:

Use a gMSA name (including the domain name) that consists of less than 15 characters.

Bug 21325903

The deinstallation operation fails to remove Oracle home and displays file in use errors because the services and processes running from Oracle home are not removed completely before Oracle home removal.

Workaround:

Manually remove the Oracle home.

Bug 29426320

ORA-28575 "Unable to open RPC connection to external procedure agent" error occurs when running external procedures or Oracle Database Extensions for .NET procedures with a virtual user account.

Workaround#1

Restart the Oracle listener service and the OracleClrAgent service using a non-virtual user account.

Workaround#2
Reinstall Oracle Database 19c and select a non-virtual user account.

**Workaround#3**

If you require a virtual user account, then set `sqlnet.authentication_services` to `NONE` in `SQLNET.ORA`. 