Oracle® Database
Release Notes

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ORACLE®

Oracle Database Release Notes, 18c

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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 18c.

Starting with Oracle Database release 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.

This Preface contains these topics:

- Audience
- Documentation Accessibility
- Related Resources
- Conventions

Audience

These Release Notes are relevant only to Oracle Database 18c 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 the *Oracle Database Licensing Information*.

- Additional Readme or Release Notes files may also exist. Refer to Other Readmes, Release Notes, or Installation Guides.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Purpose of These Release Notes

Starting with Oracle Database release 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.

These Release Notes are relevant only to Oracle Database release 18c, 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.

These Release Notes are provided instead of system bulletins or similar publications. This document may be updated after it is released. You can check for updates to this document and view other Oracle documentation at:

http://docs.oracle.com/en/database/database.html

For licensing information, refer to the *Oracle Database Licensing Information*.

Additional Readme or Release Notes files may also exist. Refer to Other Readmes, Release Notes, or Installation Guides.

2
Issues Affecting All Platforms for Oracle Database 18c

These topics contain last-minute features and changes that affect all platforms for Oracle Database 18c.

- Compatibility, Upgrading, Downgrading, and Installation
- Features Not Available or Restricted
- Deprecated and Desupported Features for Oracle Database
- 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

2.1 Compatibility, Upgrading, Downgrading, and Installation

These sections describe compatibility, upgrading, downgrading, and installation topics for Oracle Database 18c .

- Downgrading Oracle Database 12c Release 2 (12.2) to Oracle Database 11g Release 2 (11.2.0.3) Results in Errors When Running utlrp.sql

2.1.1 Downgrading Oracle Database 12*c* Release 2 (12.2) to Oracle Database 11*g* Release 2 (11.2.0.3) Results in Errors When Running utlrp.sql

If SQLJ types are present when downgrading from Oracle Database 12*c* Release 2 (12.2) to Oracle Database 11*g* Release 2 (11.2.0.3), then the following `ORA-00600` error can occur when running `utlrp.sql` to recompile invalid objects after running `catrelod.sql` (reference Bug 16230705):

```
ORA-00600: internal error code, arguments: [16211]
```

Apply the patch for this bug and recompile the type using the `ALTER TYPE COMPILE` statement.

2.2 Features Not Available or Restricted

Review this list of components and features that are not available or are restricted in this release of Oracle Database 18c:

- In Analytic Workspace Manager in Oracle Database 18c, the **Filter** option is no longer available on the Views: Data tab for a dimension.

If you require this functionality, use the Oracle Database 12*c*, Release 1 version of Analytic Workspace Manager.

- Zero Data Loss Recovery Appliance release 12.2 does not support backups from protected databases using Oracle Database 18c.

  Recovery Appliance support for 18c protected databases is not yet available.

2.3 Deprecated and Desupported Features for Oracle Database

Oracle Database 18c 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*

Terminal Release of Oracle Streams

Oracle Database 18c is the terminal release for support of the Oracle Streams feature. Oracle Streams will be desupported from Oracle Database 19 onwards.

Oracle Streams was deprecated in Oracle Database 12*c* (12.1). It does not support features introduced in Database version 12.1 and later releases, including the multitenant architecture, the LONG VARCHAR data type, long identifiers, and other features. Oracle GoldenGate is the replication solution for Oracle Database.

2.4 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:

Table 2-1   Other Oracle Product's Documentation

Product	Document
Oracle Application Express	*Oracle Application Express Release Notes* and the *Oracle Application Express Installation Guide.*
Oracle Multimedia	*ORACLE_HOME*/ord/im/admin/README.txt
Oracle ODBC Driver	*Oracle ODBC Driver Release Notes*
Oracle SQL Developer	*ORACLE_HOME*/sqldeveloper/readme.html
Pro*C	*Pro*C/C++ Release Notes*
Pro*COBOL	*Pro*COBOL Release Notes*
SQL*Plus	*SQL*Plus Release Notes*

2.5 Open Bugs Affecting All Platforms

These are known bugs in Oracle Database 18c.

- PL/SQL Known Bugs

- Oracle ASM Cluster File System (Oracle ACFS) Known Bugs
- Oracle Database Configuration Assistant (DBCA) Known Bugs
- Oracle Database Enterprise Edition Known Bugs
- Oracle Grid Infrastructure Known Bugs
- Oracle Universal Installer Known Bugs

2.5.1 PL/SQL Known Bugs

These are known bugs for PL/SQL in Oracle Database Release 18c.

- Bug 5910872

2.5.1.1 Bug 5910872

In pre-18c Oracle Database releases, the PL/SQL compiler collected metadata for a PL/SQL package type argument and all of its nested types, and inserted that data into dictionary tables such that the data could be viewed using the `ALL`, `DBA`, and `USER_ARGUMENTS` user views.

For instance, consider the following type declarations in the package `NestedTypesExample`:

```
Type Level2Record is RECORD (Field1 NUMBER); Type Level1Collection is TABLE of
Level2Record index by binary_integer; Type Level0Record is RECORD (Field1
Level1Collection); Procedure NestedTypesProc (Param1 Level0Record);
```

When the `ALL`, `DBA`, and `USER_ARGUMENTS` user views were queried, the top-level type of the `NestedTypeProc` procedure, `parameter Param1`, `Level0Record`, was returned along with an expanded description of all the nested types within `Level0Record`.

```
SQL> select argument_name,type_subname,position,sequence,data_level from
user_arguments where object_name='NESTEDTYPESPROC';
ARGUMENT_NAME    TYPE_SUBNAME      POSITION    SEQUENCE  DATA_LEVEL
---------------  ----------------  ----------  --------  ----------
PARAM1           LEVEL0RECORD           1         1           0
FIELD1           LEVEL1COLLECTION       1         2           1
                 LEVEL2RECORD           1         3           2
FIELD1                                  1         4           3
```

All of this metadata was stored because the PL/SQL package type descriptive metadata was not user accessible in the way that metadata is accessible for top-level object types. With top-level object types and collections, you can query `ALL_TYPES` and the associated user views, `ALL_TYPE_ATTRS` and `ALL_COLL_TYPES`, to obtain type metadata. However, before Oracle Database 12*c* Release 1 (12.1), there was no way to obtain type metadata for PL/SQL package types, such as records and packaged collections. Therefore, function or procedure parameters that referenced those PL/SQL package types resulted in publishing all metadata about these types in the `ARGUMENTS` views, including any nested types.

The problem with this approach is that deeply nested types can consume extensive memory in the `SYS` tablespace. Also, because there is no way to share the type metadata in the `ARGUMENTS` views, each parameter with deeply nested types requires its own redundant copy of the type metadata. Copious amounts of metadata in the `ARGUMENTS` views and `SYS` tablespace can lead to various issues, including PL/SQL

compiler performance degradation. The degradation is caused because of the time it takes PL/SQL to update rows in the underlying dictionary tables.

Workaround:

In the Oracle Database 12*c* Release 1 (12.1), PL/SQL introduced enhanced support for package types, including the new user views, `ALL_PLSQL_TYPES`, `ALL_PLSQL_TYPE_ATTRS`, and `ALL_PLSQL_COLL_TYPES`. As the names imply, these views allow users to query metadata about PL/SQL package types.

Because of the package type support added with Oracle Database 12*c* Release 1 (12.1), there is no longer a need for the PL/SQL compiler to insert large amounts of descriptive metadata into the `ARGUMENTS` views. A single row of metadata that includes the type name is all that is required in the `ARGUMENTS` views for each parameter type. You can obtain a full description of the type name, and any nested types, in a query against the PL/SQL type views.

What this means is that, beginning with Oracle Database 18c, the `ARGUMENTS` views will contain fewer rows. In particular, only top-level (`DATA_LEVEL=0`) items are stored in the `ARGUMENTS` views.

For instance, the query shown above returns the following reduced number of rows (only those rows where `DATA_LEVEL=0`) when run in Oracle Database 18c:

```
ARGUMENT_NAME    TYPE_SUBNAME      POSITION    SEQUENCE  DATA_LEVEL
---------------  ----------------- ----------  --------  ----------
PARAM1           LEVEL0RECORD              1         1           0
```

`OCIDescribeAny()` is based on the same metadata used by the `ARGUMENTS` views. `OCIDescribeAny()` also returns a single row for each parameter type, instead of the multiple rows commonly returned before the change in Oracle Database 12*c* Release 1 (12.1).

`ALL`, `DBA`, and `USER_ARGUMENTS` user views also contain a new column type, `TYPE_OBJECT_TYPE`. To determine the type of the type described by `TYPE_OWNER`, `TYPE_NAME` and `TYPE_SUBNAME`, use the `TYPE_OBJECT_TYPE` column. The possible values include `TABLE`, `VIEW`, `PACKAGE`, and `TYPE`.

If you require the old behavior for collecting argument metadata, then you can set events to `events='10946, level 65536'`. Setting this event reverts the `ARGUMENTS` views back to the behavior in Oracle Database releases earlier than 18c, in which `DATA_LEVEL` can be greater than `0`, and descriptive metadata for the type and any nested types are included in the view. If you make this change, then you must recompile affected packages after you set the event. When you recompile the affected packages, the compiler recollects the additional metadata. This event also reverts `OCIDescribeAny()` to the behavior in Oracle Database releases earlier than 18c.

Starting in Oracle Database 12*c* Release 1 (12.1.0.2), if you entered a procedure with no arguments, then the `ARGUMENTS` views did not have any rows. This change was an additional change that was separate from the row reduction change to the `ARGUMENTS` views. Before Oracle Database 12*c* Release 1 (12.1.0.2), a procedure with no arguments was presented as a single row in the `ARGUMENTS` views.

2.5.2 Oracle ASM Cluster File System (Oracle ACFS) Known Bugs

These are known bugs for Oracle ASM Cluster File System (Oracle ACFS) in Oracle Database Release 18c.

- Bug 24501993
- Bug 24509867

2.5.2.1 Bug 24501993

Use Case 1:

Consider that security, encryption and auditing are already enabled on the file system, and snap-based replication needs to be initialized with the specified tags. If replication is enabled for the specified tags and security, encryption and auditing are also enabled, and if the security directory is not tagged with one of the specified tags, then replication will fail.

Use Case 2:

Consider that replication is initialized with the specified tags, and security, encryption and auditing need to be initialized. If snap-based replication is initialized with tags that do not replicate the files in the security directory, an attempt to enable security, encryption and auditing fails.

Workaround for Use Case 1:

Tag the security directory with the one of the specified tags for the replication.

Workaround for Use Case 2:

1. Pause the replication.
2. Enable security, encryption and auditing and add a tag that is specified for the replication to the security directory recursively running as Oracle ACFS Security administrator.
3. Resume the replication.

2.5.2.2 Bug 24509867

If Oracle ACFS security, encryption, or auditing are enabled and if a user creates a snapshot and directly invokes `acfsutil snap dup create` or `acfsutil snap dup apply` to apply the snapshot, the apply command fails even though no error is reported.

Workaround:

Do not enable Oracle ACFS security, encryption, or auditing if you are directly invoking `acfsutil snap dup create` or `acfsutil snap dup apply`.

2.5.3 Oracle Database Configuration Assistant (DBCA) Known Bugs

These are known bugs for Oracle Database Configuration Assistant (DBCA) in Oracle Database Release 18c.

- Bug 27237306

2.5.3.1 Bug 27237306

During the creation of a pluggable database (PDB) from an existing PDB on Oracle Managed Files (OMF), users can edit the database location in the Oracle Database Configuration Assistant (DBCA) user interface. This allows users to change the

location of the database files during PDB creation, giving an impression that the location can be changed. This behavior is incorrect because the PDB is always created with the database files in the same location as the source PDB, and the database location cannot be modified.

Workaround:

Do not edit the default database location value. Oracle Managed Files (OMF) creates the new PDB with the default database location value only.

2.5.4 Oracle Database Enterprise Edition Known Bugs

These are known bugs for Oracle Database Enterprise Edition in Oracle Database Release 18c.

- Bug 23569490
- Bug 23713504
- Bug 24291322
- Bug 24322363
- Bug 27254644

2.5.4.1 Bug 23569490

If you have a large number of collections and are working with pre-12.2 clients, 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.

Based on the number of collections and object types used in the application, the size required can be found by using this formula:

```
max(20K * Number of Collection Types, 5K * Object type)
```

2.5.4.2 Bug 23713504

The service-oriented buffer cache access optimization feature continuously monitors data block reads from disk or inter-node block transfers and performs data-dependent caching using this information. The data-dependent caching does not work in the case of service relocation if there are no data block reads or transfers in the recent past. This can happen if all of the blocks queried are already in the buffer cache and, therefore, no new blocks are read or transferred.

Workaround:

None.

2.5.4.3 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 you are trying to open contains symbolic links, change it to provide the real path and filename.

2.5.4.4 Bug 24322363

Software-only images are the only type of images supported with persistent home paths provisioned using Rapid Home Provisioning (RHP). Images created from existing working copies or homes are not supported for provisioning homes with a persistent home path.

Workaround:

Use images created from software-only installations.

2.5.4.5 Bug 27254644

During the Oracle Scheduler agent register database process (`schagent - registerdatabase`), 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.

2.5.5 Oracle Grid Infrastructure Known Bugs

These are known bugs for Oracle Grid Infrastructure in Oracle Database Release 18c.

- Bug 21559133
- Bug 23102210
- Bug 27302415

2.5.5.1 Bug 21559133

This issue affects rolling upgrade from Oracle Grid Infrastructure 12*c* Release 1 (12.1) to Oracle Grid Infrastructure 18c Release 1 (18.1) of Oracle Clusterware standard Cluster with Oracle ASM. A node running Oracle Grid Infrastructure 12*c* Release 1 (12.1) cannot join the cluster after the first node has been upgraded to Oracle Grid Infrastructure 18c Release 1 (18.1).

The nodes running Oracle Grid Infrastructure 12*c* Release 1 (12.1) that are in `ONLINE` status continue to be members of the cluster.

Workaround:

Upgrade Oracle Grid Infrastructure from 12*c* Release 1 (12.1) to 18c Release 1 (18.1) on the failed node.

2.5.5.2 Bug 23102210

Sometimes starting an Oracle Grid Infrastructure stack fails with the following error stack when there are reader farm services on a pluggable database (PDB):

```
CRS-5017: The resource action "<rfservice on pdb> start" encountered the following
error:
```

```
ORA-12963: A read-only instance cannot be the first instance to open a database
```

Workaround:

Ensure that PDB is started on a Hub Node and then restart the service reported as part of the `CRS-5017` error message.

2.5.5.3 Bug 27302415

While upgrading Oracle Grid Infrastructure 12*c* Release 2 (12.2), the Grid Infrastructure Management Repository (GIMR) configuration tool could fail with the following error:

```
MGTUA-1801 : Prerequisite check for GIMR database upgrade operation failed
```

Workaround:

As the Oracle Grid Infrastructure owner, create the `<ORACLE_BASE>/admin/_mgmtdb/adump/` directory on the server and try executing the configuration tool again.

2.5.6 Oracle Universal Installer Known Bugs

These are known bugs for Oracle Universal Installer (OUI) in Oracle Database Release 18c. It is also recommended that you review Compatibility, Upgrading, Downgrading, and Installation for other issues related to installation and upgrades.

- Bug 8666656
- Bug 18336219
- Bug 23006768
- Bug 27080535
- Bug 27120934

2.5.6.1 Bug 8666656

The Oracle Universal Installer (OUI) `runInstaller` script that resides in the Oracle home (`ORACLE_HOME/oui/bin/setup.exe`) cannot be used to install the Oracle Database 18c releases, Oracle Grid Infrastructure for a cluster, and Oracle Database Client.

Workaround:

Refer to the Installation Guide of the respective product for instructions on how to install the product.

2.5.6.2 Bug 18336219

Oracle Database installer does not check if the password specified for `ASMSNMP` on the Specify Management Options screen is correct or not. 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 that was specified earlier during the Oracle Grid Infrastructure for a cluster installation) is specified in 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 correct password for `ASMSNMP`. Once the correct password is saved on Oracle Enterprise Manager Cloud Control, the Oracle ASM monitoring starts working.

2.5.6.3 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 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.

2.5.6.4 Bug 27080535

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

Workaround:

To remove the `emConfig.txt` file, execute the following command:

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

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

```
rm -rf $ORACLE_BASE
```

2.5.6.5 Bug 27120934

After downgrading Oracle Clusterware using the Grid Setup Wizard, from release 18c
to release 12.1 or 11.2 of Oracle Clusterware, the unused data files of the Oracle Grid
Infrastructure Management Repository (GIMR) of the 18c 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
```

3

Issues Affecting the Linux Platform for Oracle Database 18c

These topics contain last-minute features and changes for the Linux platform for Oracle Database 18c.

- Unsupported Products for the Linux Platform
- Linking Applications with Oracle Client Libraries for the Linux Platform
- Preinstallation Requirements for the Linux Platform
- Installation, Configuration, and Upgrade Issues for the Linux Platform
- Open Bugs Affecting the Linux Platform

3.1 Unsupported Products for the Linux Platform

There are no unsupported products for the Linux platform at this time. Refer to the list of unavailable products or features for all platforms in Oracle Database 18c.

3.2 Linking Applications with Oracle Client Libraries for the Linux Platform

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

3.3 Preinstallation Requirements for the Linux Platform

Refer to the installation guides for the preinstallation requirements for Oracle Database 18c.

3.4 Installation, Configuration, and Upgrade Issues for the Linux Platform

There are no installation, configuration, and upgrade issues at the time of this release of Oracle Database 18c.

3.5 Open Bugs Affecting the Linux Platform

These topics contain last-minute features and changes for Oracle Database 18c.

- DBCA Displays Incorrect Memory of the Host Server

- Deinstallation of Oracle Real Application Clusters Oracle (RAC) Home Returns Errors
- Oracle R Enterprise Fails Due to Libtiff Library Version Mismatch

3.5.1 DBCA Displays Incorrect Memory of the Host Server

When creating a database on Linux Container, Database Configuration Assistant (DBCA) incorrectly shows the available memory of the host server instead of the Linux Container on the Specify Configuration Options page. When you choose to allocate the percentage of memory based on the value shown, the database creation may fail in the case where total consumable memory for that Linux Container is less than the allocated memory.

Workaround:

You must allocate physical memory for the database according to the configuration of the Linux Container system.

This issue is tracked with Oracle bug 21546793.

3.5.2 Deinstallation of Oracle Real Application Clusters Oracle (RAC) Home Returns Errors

Deinstallation of Oracle Real Application Clusters Oracle (RAC) home on shared NAS may fail 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.

This issue is tracked with Oracle bug 26708302.

3.5.3 Oracle R Enterprise Fails Due to Libtiff Library Version Mismatch

The Cairo package in Oracle R Enterprise fails to load on SUSE Linux Enterprise Server 12 when the `libtiff.so.3` version is missing.

Workaround:

Create a symlink for `libtiff.so.3` from `libtiff5.so.5`.

This issue is tracked with Oracle bug 24939744.

4

Issues Affecting the Oracle Solaris Platform for Oracle Database 18c

These topics contain last-minute features and changes for the Oracle Solaris platform for Oracle Database 18c.

- Unsupported Products for the Oracle Solaris Platform
- Linking Applications with Oracle Client Libraries for the Oracle Solaris Platform
- Preinstallation Requirements for the Oracle Solaris Platform
- Installation, Configuration, and Upgrade Issues for the Oracle Solaris Platform
- Open Bugs Affecting the Oracle Solaris Platform

4.1 Unsupported Products for the Oracle Solaris Platform

In addition to the list of unavailable products or features in this release of Oracle Database 18c, the following products and features are not supported:

- Net Configuration Assistant Support

> ✎ **See Also:**
>
> Features Not Available or Restricted

4.1.1 Net Configuration Assistant Support

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

4.2 Linking Applications with Oracle Client Libraries for the Oracle Solaris Platform

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

4.3 Preinstallation Requirements for the Oracle Solaris Platform

Refer to the installation guides for the preinstallation requirements for Oracle Database 18c.

4.4 Installation, Configuration, and Upgrade Issues for the Oracle Solaris Platform

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

- Font Color Issue When Installing Oracle Database
- Inconsistent Oracle Home Path During an Oracle Grid Infrastructure Installation

4.4.1 Font Color Issue When Installing Oracle Database

When installing Oracle Database for the English and Japanese environment, 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:

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

This issue is tracked with Oracle bug 21800407.

4.4.2 Inconsistent Oracle Home Path During an Oracle Grid Infrastructure Installation

When installing or upgrading an Oracle Grid Infrastructure home on Oracle Solaris 10, if the desired software location resides under a soft link, then the Oracle Grid Infrastructure installer may incorrectly set the physical path as the software location.

Workaround:

Perform the following steps:

1. Set the Oracle Grid Infrastructure installer using the complete path to the desired Oracle home path:

   Complete Oracle home path/gridSetup.sh

2. Proceed with the Oracle Grid Infrastructure installation.

This issue is tracked with Oracle bug 24355490.

4.5 Open Bugs Affecting the Oracle Solaris Platform

These topics contain last-minute features and changes for Oracle Database 18c.

- Running Visual COBOL 2.2 Applications Using rtsora

4.5.1 Running Visual COBOL 2.2 Applications Using rtsora

If you want to run the Visual COBOL 2.2 applications using the `rtsora` command, then you must relink `rtsora` in `ORACLE_HOME`.

Workaround:

Perform the following steps to run the Visual COBOL 2.2 applications:

1. Verify if the `COBMODE` and `COBDIR` variables point to the directory where Visual COBOL is installed and `LD_LIBRARY_PATH` and `PATH` variables contain the `COBDIR` and `COBIDR/lib` directories respectively.

2. Relink the `rtsora` command in `ORACLE_HOME`.

   ```
   cd $ORACLE_HOME/precomp/lib
   make -f ins_precomp.mk relink EXENAME=rtsora
   ```

3. Run the Visual COBOL 2.2 applications.

This issue is tracked with Oracle bug 24438496.

5

Corrections or Additions to Published Documentation

These topics contain corrections or additions that need to be made to published documentation.

- Oracle Database 2 Day + Performance Tuning Guide (E83714)
- Oracle Database Utilities (E89587)

5.1 Oracle Database 2 Day + Performance Tuning Guide (E83714)

In Section 9.3 "Using the AWR Compare Periods Reports" in Chapter 9 "Resolving Performance Degradation Over Time", the following two new subsections have been added to the Automatic Workload Repository (AWR) Compare Periods report in 18.1:

- Top Process Types by Wait Class

  This section shows top process types ordered by wait class.

- Top Process Types by CPU Used

  This section shows top process types ordered by CPU time.

5.2 Oracle Database Utilities (E89587)

Oracle Database Utilities for 18.1 has been updated with the following restrictions:

- For the `ACCESS_METHOD` parameter for Data Pump Export (Chapter 2):

  "The `ACCESS_METHOD` parameter for Data Pump Export is not valid for transportable tablespace jobs."

- For the `TRANSPORT_TABLESPACES` parameter for Data Pump Export (Chapter 3):

  "Transportable tablespace jobs do not support the `ACCESS_METHOD` parameter for Data Pump Export."

- For the `ACCESS_METHOD` parameter for Data Pump Import (Chapter 2):

  "The `ACCESS_METHOD` parameter for Data Pump Import is not valid for transportable tablespace jobs."

- For the `TRANSPORT_TABLESPACES` parameter for Data Pump Import (Chapter 3):

  "Transportable tablespace jobs do not support the `ACCESS_METHOD` parameter for Data Pump Import."