

# Oracle® AI Database

## Database Release Notes



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Oracle AI Database Database Release Notes, 26ai

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# Preface

This document describes last-minute features and changes that are not included in the Oracle AI Database Documentation Library for Oracle AI Database 26ai.

- [Audience](#)
- [Related Resources](#)

## Audience

This document is relevant only to Oracle AI Database 26ai 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 AI Database documentation library.

## 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 AI Database Licensing Information User Manual*.
- Additional readme or release notes files also exist. Refer to [Other Readmes, Release Notes, or Installation Guides](#).

# 1

## Purpose of These Release Notes

More recent versions of some Oracle AI Database 26ai documentation may be available in either HTML or PDF format.

Updates to this release note document can occur after it is released. 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 *Oracle AI Database Licensing Information User Manual*.

Additional readme or release notes files also exist. Refer to the [Other Readmes, Release Notes, or Installation Guides](#).

# 2

## Issues Affecting All Platforms for Oracle AI Database 26ai

These topics contain last-minute features and changes that affect all platforms for Oracle AI Database 26ai.

- [Restrictions for Oracle AI Vector Search](#)  
The following are restrictions for Oracle AI Vector Search in Oracle AI Database 26ai.
- [Restrictions for JavaScript Object Notation and JSON-Relational Duality Views](#)  
The following are general restrictions for JavaScript Object Notation (JSON) and restrictions for JSON-relational duality views in Oracle AI Database 26ai.
- [Property Graph Features That Work With Oracle AI Database 26ai](#)  
Oracle Graph Server and Client Release 25.1 works with the following Property Graph features of Oracle AI Database 26ai.
- [Unrestricted Bulk Transactions](#)  
The following are restrictions for Unrestricted Bulk Transactions in Oracle AI Database 26ai.
- [Deprecated and Desupported Features for Oracle AI Database](#)  
Oracle AI Database 26ai introduces behavior changes for your database in addition to new features.
- [Other Readmes, Release Notes, or Installation Guides](#)  
Refer to the following Oracle products and the location of their associated readme, release notes, or installation guide for additional information.

## Restrictions for Oracle AI Vector Search

The following are restrictions for Oracle AI Vector Search in Oracle AI Database 26ai.

- The feature Open Neural Network Exchange (ONNX) is only supported on the x86-64 Linux and Linux for Arm (aarch64) platforms. ONNX is not supported on Microsoft Windows.
- To size the Vector Pool manually, use the `VECTOR_MEMORY_SIZE` initialization parameter. You can dynamically modify this parameter at the following levels:
  - At the multitenant container database (CDB) level, `VECTOR_MEMORY_SIZE` specifies the current size of the Vector Pool. Reducing the parameter value evicts vector usage that exceeds the new size.
  - At the pluggable database (PDB), level `VECTOR_MEMORY_SIZE` specifies the maximum Vector Pool usage allowed by a PDB. Reducing the parameter value evicts vector usage that exceeds the new quota.

**Note**

When `VECTOR_MEMORY_SIZE` is set to 1 and `sga_target` is greater than 0 upon CDB initialization, HNSW index creation will automatically grow the vector memory pool to satisfy the new index. In this configuration, the PDB `VECTOR_MEMORY_SIZE` value will default to 0 and cannot be changed using the `ALTER SYSTEM` command.

- Table-Level Support
  - Truncate or move table operations are supported but will mark global vector indexes unusable.
  - Partition management (PMOP) operations (for example, `DROP`, `TRUNCATE`, `EXCHANGE`, `MERGE`, `MOVE`, `COALESCE`, and `SPLIT`) are supported but will mark global vector indexes unusable.
  - Adding a hash partition will also mark global vector indexes unusable. However, adding a range or list partition will not mark global vector indexes unusable.
  - Vector columns are not supported either in or as the following:
    - \* Index organized tables (IOTs) (neither as a primary key or as a non-key column)
    - \* Clusters or cluster tables
    - \* Global temporary tables
    - \* Blockchain tables
    - \* Immutable tables
    - \* Partitioning and subpartitioning keys
    - \* Primary and foreign keys
    - \* Unique and check constraints
    - \* Default value
    - \* Modify column
    - \* Manual segment space management (MSSM) tablespace (only a SYS user can create vectors as BasicFiles in MSSM tablespace)
    - \* Continuous Query Notification (CQN) queries
    - \* Non-vector indexes such as B-tree, bitmap, reverse key, text, spatial indexes
  - For local Inverted Flat File (IVF) indexes:
    - \* `ADD` non-hash vector indexes are supported but will mark vector indexes unusable.
    - \* All other PMOP operations are not supported and return an error when attempted.
- Type-Level Support

Vector column specification does not support the following:

  - Encryption clause
  - SecureFiles storage clause
- Query-Level Support
  - The partition row-limiting clause does not use vector indexes.
  - There is limited cost-based optimization support for vector indexes.
  - SQL constructs with vector columns do not support the following:

- \* Distinct, Count Distinct
- \* Order By, Group By
- \* Join condition
- \* Comparison operators (for example, >, <, =)
- Index-Level Support
  - Vector indexes do not support the following:
    - \* External tables
    - \* IOTs
    - \* Clusters or cluster tables
    - \* Global temporary tables
    - \* Blockchain tables
    - \* Immutable tables
    - \* Materialized views
  - There is no support for the following:
    - \* Function-based vector index
    - \* Alter index DDL for vector indexes
    - \* Online creation of vector indexes
- The latest python-oracledb, node-oracledb, JDBC, ODP.NET, and OCI drivers enable native binds.
  - All other SQL drivers need to use CLOBs or VARCHAR2 for binds and for vector definitions.
  - Oracle clients from release 19c and release 21c will see vectors as CLOBs.
- Integration with the following is not supported:
  - Vector indexes with transportable tablespaces are not supported with Oracle Data Pump.
  - Oracle AI Database Advanced Queuing
  - Oracle AI Database Gateways
- A maximum of 65535 dimensions is supported.
- Data redaction is not supported for the VECTOR data type. Specifically, you cannot:
  - Add a data redaction policy on a vector column.
  - Alter a table to modify a column to the VECTOR data type if the column has a redaction policy defined on it.

# Restrictions for JavaScript Object Notation and JSON-Relational Duality Views

The following are general restrictions for JavaScript Object Notation (JSON) and restrictions for JSON-relational duality views in Oracle AI Database 26ai.

## Restrictions for Oracle GoldenGate Replication of JSON-Relational Duality Views

- Direct loads (`INSERT /*+APPEND*/`) are downgraded to conventional or serial inserts.
- Oracle Data Pump `EXPORT` does not export the `ENABLE LOGICAL REPLICATION` clause in the `CREATE DUALITY VIEW` and `ALTER DUALITY VIEW` statements.
- Executing `DBMS_METADATA.GET_DDL` on a duality view does not show the `ENABLE` or `DISABLE LOGICAL REPLICATION` clause.
- On base tables of a duality view with replication enabled:
  - Oracle Data Pump direct path load is downgraded to conventional inserts.
  - Direct load (`INSERT /*+APPEND*/`) is downgraded to conventional or serial inserts.
  - Parallel DMLs (PDMLs) are downgraded to conventional inserts.
  - Bulk DDLs, like `TRUNCATE TABLE` and `ALTER TABLE PARTITION`, return an error.
- Logical replication cannot be enabled on a duality view that has generated fields or a sub-object without an identifier (for example, primary key, unique key, identity column, or the field `_id`).

## Restrictions for JSON-Relational Duality Views

- The following tables can only participate in a JSON-relational duality view using read-only generated fields:
  - System-partitioned tables
  - Partitioned-extended tables
  - Sharded tables
  - Views (except editing views). Views include materialized views and duality views.
  - External tables
  - Hybrid partitioned tables
  - Global or private temporary tables
  - Remote tables (for example, tables over database links)
- Updates of duality views across database links are not supported.
- You cannot create a functional index, JSON search index, or JSON multivalued index on the `DATA` column of a duality view.
- The use of a JSON search index on the column of an underlying table is not supported.
- Virtual private database (VPD) and Oracle Real Application Security (RAS) on duality views are not supported.
- VPD on underlying tables are supported only if all statements (`INSERT`, `UPDATE`, `DELETE`, or `SELECT`) are included in the policy. However, when all statement types are not included in

the VPD policy, there is no error returned but DML and query results may be unexpected or may fail.

- Transparent Sensitive Data Protection is not supported with duality views and underlying tables.
- Table columns of a duality view cannot be redacted if the redacted columns are part of the ETAG.
- Because JSON-relational duality views rely on JSON type, a 19c or earlier SQL\*Plus client cannot be used for queries, DML or other SQL operations that use the `DATA` column which is of data type `JSON`.
- Duality views cannot be created on base tables with textual JSON columns (`VC2/CLOB/BLOB` with `IS-JSON` constraint) in the base table.
- The same subquery cannot be used multiple times to define nested JSON structures (object or array) in the same parent object.
- Fine-grained auditing policies are not supported with duality views.
- DML error logging is not supported with duality views.

## Property Graph Features That Work With Oracle AI Database 26ai

Oracle Graph Server and Client Release 25.1 works with the following Property Graph features of Oracle AI Database 26ai.

- Native representation of graphs in Oracle AI Database.
- Support for the ISO/IEC SQL Property Graph Queries (SQL/PGQ) standard.
- Use JSON collections as a graph data source.
- Use Native Representation of Graphs in Oracle AI Database with Graph Tools.

See the topics [SQL Property Graphs](#) and [Visualizing GRAPH\\_TABLE Queries on SQL Property Graphs](#) in [Oracle AI Database Graph Developer's Guide for Property Graph](#).

## Unrestricted Bulk Transactions

The following are restrictions for Unrestricted Bulk Transactions in Oracle AI Database 26ai.

For this release, the Unrestricted Bulk Transactions feature is:

- Not compatible with In-Memory Undo (IMU). IMU is already disabled for Oracle RAC.
- Not compatible with distributed and clusterwide global transactions.

## Deprecated and Desupported Features for Oracle AI Database

Oracle AI Database 26ai 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 AI Database Upgrade Guide*.

### Removal of 3DES Encryption Algorithm in FIPS-Compliant Mode

The 3DES encryption algorithm functionality for databases operating in FIPS 140-3 compliant mode is scheduled for removal later this year. Update your systems accordingly.

The National Institute of Standards and Technology (NIST) will [move FIPS 140-2 to the historical list on 21 September 2026](#). Oracle is transitioning from FIPS 140-2 to FIPS 140-3 validated cryptographic modules for Oracle AI Database 26ai and Oracle Database 19c. FIPS 140-3 desupports the 3DES (Triple Data Encryption Standard) encryption algorithms. In compliance with this change to the updated standard, Oracle Database is desupporting the use of 3DES for Oracle Database 19c when databases are configured to run in FIPS 140-3 compliant mode. Support for 3DES in FIPS -complaint databases is scheduled for removal in 2026 with Oracle Database 19c Release Update 19.32. Oracle AI Database 26ai already desupports 3DES for use when the database is configured for FIPS 140-3.

In line with current security best practices, Oracle recommends transitioning to the Advanced Encryption Standard (AES). AES offers improved security, performance, and resistance to known attacks. Review your encryption configurations (including transparent data encryption and network encryption) to ensure that you do not use 3DES. If you have not already done so, convert Oracle Wallets created prior to Oracle Database 19.22 to use AES. If you find any use of 3DES, then transition to a more secure cipher such as AES. For additional details, refer to appendix E of the *Oracle AI Database Security Guide*.

## Other Readmes, Release Notes, or Installation Guides

Refer to the following Oracle products and the location of their associated readme, release notes, or installation guide for additional information.

- *Oracle APEX Release Notes*
- *Oracle APEX Installation Guide*.

# 3

## Issues Affecting Linux for Oracle AI Database 26ai

These topics contain last-minute features and changes for Linux for Oracle AI Database 26ai.

- [Unsupported Products for Oracle AI Database 26ai](#)  
This topic describes products or features that are unavailable for Oracle AI Database 26ai.
- [Product Support](#)  
This topic describes the supported products or features for Oracle AI Database 26ai.
- [Known Issues and Bugs for Oracle Linux 8 and Red Hat Enterprise Linux 8](#)  
This section contains information about issues related to Oracle Linux 8 and Red Hat Enterprise Linux 8:
- [Open Bugs Affecting Linux](#)  
This topic contains last-minute features and changes for Oracle AI Database 26ai.

### Unsupported Products for Oracle AI Database 26ai

This topic describes products or features that are unavailable for Oracle AI Database 26ai.

DBnest is only supported on Linux cgroup v1. By default, Oracle Linux 9.2 with the Unbreakable Enterprise Kernel 7: 5.15.0-313.189.5.1.el9uek.x86\_64 or later and Oracle Linux 9.2 with the Red Hat Compatible Kernel: 5.14.0-284.30.1.el9\_2.x86\_64 or later boot with cgroup v2.

### Product Support

This topic describes the supported products or features for Oracle AI Database 26ai.

- For Oracle AI Database 26ai on Oracle Linux 9 Red Hat Compatible Kernel (RHCK), Oracle ASMLIB V3 is supported on kernel version 5.14.0-362.8.1.el9\_3 or later only.

### Known Issues and Bugs for Oracle Linux 8 and Red Hat Enterprise Linux 8

This section contains information about issues related to Oracle Linux 8 and Red Hat Enterprise Linux 8:

- [Bug 36756459](#)

### Bug 36756459

If you use Oracle Database Configuration Assistant (Oracle DBCA) with Oracle Data Guard to carry out a database move operation, then you must move the Data Guard Broker configuration files before starting your database move operation.

The default location for the `DB_BROKER_CONFIG` files is in the `db`s directory in the earlier release Oracle AI Database Oracle home. When you use a database move operation to carry out a database move of database instances using Oracle Data Guard, you must move the `DG_BROKER_CONFIG` files to a mount point location outside of the earlier release Oracle home. Also ensure that the `DG_BROKER_CONFIG_FILE` parameters specify that location, instead of a location in the Oracle home.

### Tasks Before Starting Your Database Move Operation using Oracle DBCA

To enable access to the `DB_BROKER_CONFIG` files during a rolling upgrade, you must complete the following tasks before starting the database move operation.

1. Before you start the database move operation, set the Oracle Data Guard files `DG_BROKER_CONFIG_FILE1` and `DG_BROKER_CONFIG_FILE2` to a separate mount point on your server that is outside of the Oracle home path for either the source or target Oracle AI Database Oracle homes.
2. Complete a successful database move operation of your earlier release Oracle home to the new Oracle AI Database release.

## Open Bugs Affecting Linux

This topic contains last-minute features and changes for Oracle AI Database 26ai.

- [Bug 36326543](#)
- [Bug 35517929](#)
- [Bug 37294692](#)
- [Bug 37983922](#)
- [Bug 38622857](#)

### Bug 36326543

On Oracle Linux 9.2, the listener fails to start due to issues with `getaddrinfo()` if the `/etc/hosts` has an entry in the order IPv4 and IPv6 addresses when the same host name and listener are configured with IPv6 address and `ip=v6_only`.

#### Workaround

Change the order of the address in the `/etc/hosts` entry with IPv6 first and then IPv4.

### Bug 35517929

Static linking demos fail during compilation on Oracle AI Database 26ai on Oracle Linux 9 and Red Hat Enterprise Linux 9.

#### Workaround:

Oracle AI Database 26ai supports only Dynamic linking demos on Oracle Linux 9 and Red Hat Enterprise Linux 9.

### Bug 37294692

On Oracle AI Database 26ai, Release Update 23.6, failed vector index builds are cleaned up inline with subsequent `CREATE INDEX`.

**Workaround**

Run the `alter system set _vector_index_cleanup_inline=false;` command to set the underscore parameter `_vector_index_cleanup_inline` to `FALSE` before starting a rolling upgrade of Oracle AI Database 26ai, Release Update 23.6 to Oracle AI Database 26ai, Release Update 23.7.

**Related Topics**

- [My Oracle Support note 3076046.1](#)

## Bug 37983922

`compat-openssl11-1.1.1` package missing error during Oracle Database Client installation on Oracle Linux 10.

**Workaround:**

In the **Perform Prerequisite Checks** screen, for the `compat-openssl11-1.1.1` missing check, select **Ignore All**, and click **Install** to continue with the installation.

## Bug 38622857

On Oracle Linux 10, Oracle Database Client installation displays one or more of the following errors about graphical display setup:

Unable to verify the graphical display setup. This application requires X display. Make sure that `xdpyinfo` exist under `PATH` variable.

Could not execute auto check for display colors using command `/usr/bin/xdpyinfo`. Check if the `DISPLAY` variable is set.

**Workaround:**

Ignore the following error message on the console and continue with the client installation:

```
ERROR: Unable to verify the graphical display setup. This application
requires X display. Make sure that xdpyinfo exist under PATH variable.
```

# 4

## Issues Affecting Microsoft Windows for Oracle AI Database 26ai

These topics contain last-minute features and changes for Microsoft Windows for Oracle AI Database 26ai and Oracle Instant Client 26ai.

- [Known Issues and Bugs Affecting Oracle Instant Client 26ai for Microsoft Windows](#)  
The following section contains information about a known issue affecting Oracle Instant Client 26ai for Microsoft Windows.

### Known Issues and Bugs Affecting Oracle Instant Client 26ai for Microsoft Windows

The following section contains information about a known issue affecting Oracle Instant Client 26ai for Microsoft Windows.

- [Unzip Issue with Windows Oracle Instant Client Package](#)

#### Unzip Issue with Windows Oracle Instant Client Package

The `unzip -t` operation on the Windows Oracle Instant Client 26ai package results in an error.

##### **Workaround**

Do not use `unzip -t`. Use `unzip <windows_pkg_name>` instead.

# 5

## Issues Affecting Microsoft Windows for Oracle AI Database 26ai Free

These topics contain last-minute features and changes for Microsoft Windows for Oracle AI Database 26ai Free.

- [Known Issues and Bugs Affecting Oracle AI Database 26ai Free for Microsoft Windows](#)  
The following section contains information about a known issue affecting Oracle AI Database 26ai Free for Microsoft Windows.

### Known Issues and Bugs Affecting Oracle AI Database 26ai Free for Microsoft Windows

The following section contains information about a known issue affecting Oracle AI Database 26ai Free for Microsoft Windows.

- [Bug 35706665](#)

#### Bug 35706665

Upgrading from Oracle Database 21c XE to Oracle AI Database 26ai Free may detect one or more invalid objects.

##### **Workaround**

Ignore these invalid objects and proceed with the upgrade.

# 6

## Issues Affecting Oracle Instant Client 26ai for macOS (ARM64)

This topic contains last-minute features and changes for Oracle Instant Client 26ai for macOS (ARM64).

- [Unsupported Features and Components](#)  
The following features or components are not supported on Apple macOS (ARM64):
- [Known Issues and Bugs Affecting Oracle Instant Client 26ai for macOS \(ARM64\)](#)  
The following section contains information about a known issue affecting Oracle Instant Client 26ai for Apple macOS (ARM64).

### Unsupported Features and Components

The following features or components are not supported on Apple macOS (ARM64):

- Pro\*FORTRAN
- Pro\*COBOL
- Oracle AI Database 26ai Vector Operations

### Known Issues and Bugs Affecting Oracle Instant Client 26ai for macOS (ARM64)

The following section contains information about a known issue affecting Oracle Instant Client 26ai for Apple macOS (ARM64).

- [Advanced Queuing Operations Error](#)

### Advanced Queuing Operations Error

During Advanced Queuing (AQ) operations you might encounter the following error:

```
ORA-24912: Listener Thread failed
```

#### Workaround

Add the `en0 inet` IP address and host name to the `/etc/hosts` file: `IP_address host_name`.

You can obtain the `en0 inet` IP address by running the `ipconfig getifaddr en0` command in the terminal.

You can obtain the host name by running the `hostname -f` command in the terminal.