

# Oracle® Database Express Edition Licensing Information User Manual



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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# Preface

This guide provides information about Oracle Database Express Edition licensing.

- [Audience](#)
- [Documentation Accessibility](#)
- [Related Documents](#)
- [Conventions](#)

## Audience

This book is intended for anyone responsible for installing Oracle Database 18c Express Edition.

## Documentation Accessibility

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## Related Documents

For more information, see these Oracle resources:

- *Oracle Database Licensing Information User Manual* for information on other Oracle Database offerings
- *Oracle Database New Features Guide* for more information about the new features to this release

## Conventions

The following text conventions are used in this document:

<b>Convention</b>	<b>Meaning</b>
<b>boldface</b>	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	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

## Licensing Information

Welcome to the *Oracle Database Express Edition Licensing Information*. This guide covers the following Oracle Database Express Edition (Oracle Database XE) topics:

- [Oracle Database Express Edition License Agreement](#)
- [Features Availability](#)
- [Third-Party Licenses](#)
- [Documentation Accessibility](#)

### 1.1 Oracle Database Express Edition License Agreement

Oracle Database XE is available on Linux x86-64 and Microsoft Windows platforms.

#### **Oracle Database Express Edition for Microsoft Windows**

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### 1.2 Features Availability

- [Permitted Features, Options, and Management Packs in Oracle Database XE](#)
- [Additional Components](#)

#### 1.2.1 Permitted Features, Options, and Management Packs in Oracle Database XE

The tables in this section list Oracle Database features, Oracle Database options, and Oracle management packs, and their availability in Oracle Database Express Edition.

These tables can help you understand if the Oracle Database Express Edition offering is right for you. The Y value in a column means that the feature, option, or pack is available; N means that it is unavailable; N/A means that it is not applicable.

The tables are organized into the following functional categories:

- Consolidation - [Table 1-1](#)
- Development Platform - [Table 1-2](#)
- High Availability - [Table 1-3](#)
- Integration - [Table 1-4](#)
- Manageability - [Table 1-5](#)
- Networking - [Table 1-6](#)
- Performance - [Table 1-7](#)
- Scalability - [Table 1-8](#)
- Security - [Table 1-9](#)
- Snapshots and Cloning - [Table 1-10](#)
- Spatial and Graph Data - [Table 1-11](#)
- VLDB, Data Warehousing, and Business Intelligence - [Table 1-12](#)

**Table 1-1 Consolidation**

Feature/Option/Pack	Availability	Notes
Oracle Multitenant - # of PDBs	Y	Maximum of 3 PDBs
CDB Fleet Management	N	
PDB Snapshot Carousel	N	
Refreshable PDB switchover	N	

**Table 1-2 Development Platform**

Feature/Option/Pack	Availability	Notes
SQLJ	Y	
Microsoft Distributed Transaction Coordinator support	Y	Windows only
Native .NET Data Provider—ODP.NET	Y	Windows only
.NET Stored Procedures	Y	Windows only

**Table 1-3 High Availability**

Feature/Option/Pack	Availability	Notes
Application Continuity	N	
Oracle Sharding	N	
Oracle Fail Safe	N	
Oracle RAC One Node	N	
Oracle Data Guard—Redo Apply	N	
Oracle Data Guard—Far Sync Standby	N	
Oracle Data Guard—SQL Apply	N	



**Table 1-3 (Cont.) High Availability**

Feature/Option/Pack	Availability	Notes
Oracle Data Guard—Snapshot Standby	N	
Oracle Data Guard—Real-Time Cascading Standbys	N	
Oracle Data Guard—Automatic Correction of Non-logged Blocks at a Data Guard Standby Database	N	
Oracle Active Data Guard	N	
Rolling Upgrades—Patch Set, Database, and Operating System	N	
Rolling Upgrades Using Active Data Guard	N	
Online index rebuild	Y	
Online table organization	Y	
Online table redefinition	Y	
Duplexed backup sets	N	
Block change tracking for fast incremental backup	N	
Unused block compression in backups	N	
Block-level media recovery	N	
Lost Write Protection	N	
Automatic Block Repair	N	
Parallel backup and recovery	N	
Tablespace point-in-time recovery	N	
Trial recovery	Y	
Fast-start fault recovery	Y	
Flashback Table	Y	
Flashback Database	Y	
Flashback Transaction	N	
Flashback Transaction Query	N	
Optimization for Flashback Data Archive	N	
Online Datafile Move	N	
Transaction Guard	N	
Cross-platform Backup and Recovery	Y	
Global Data Services	N	
Recovering tables and table partitions from RMAN backups	N	

**Table 1-4 Integration**

Feature/Option/Pack	Availability	Notes
Oracle Streams	N	
Database Gateways	N	
Messaging Gateway	N	

**Table 1-4 (Cont.) Integration**

Feature/Option/Pack	Availability	Notes
Sharded Queues	Y	

**Table 1-5 Manageability**

Feature/Option/Pack	Availability	Notes
Oracle Cloud Management Pack for Oracle Database	N	
Oracle Data Masking and Subsetting Pack	N	
Oracle Database Lifecycle Management Pack for Oracle Database	N	
Oracle Diagnostics Pack	N	
Oracle Tuning Pack	N	
Oracle Real Application Testing	N	
Database Resource Manager	N	
I/O Resource Management	N	
Instance Caging	N	
SQL Plan Management	N	
SQL Tuning Sets	N	
Rapid Home Provisioning	N	

**Table 1-6 Networking**

Feature/Option/Pack	Availability	Notes
Infiniband support	N	
Oracle Connection Manager	N	
Network Compression	Y	

**Table 1-7 Performance**

Feature/Option/Pack	Availability	Notes
Client Side Query Cache	Y	
Query Results Cache	Y	
PL/SQL Function Result Cache	Y	
Oracle TimesTen Application-Tier Database Cache	N	
Database Smart Flash Cache	N	
Support for Oracle Exadata Storage Server Software	N	
Adaptive Execution Plans	Y	
Concurrent Execution of UNION and UNION ALL Branches	N	
In-Memory Column Store	Y	
In-Memory Column Cache on Storage Servers	N	

**Table 1-7 (Cont.) Performance**

Feature/Option/Pack	Availability	Notes
In-Memory Column Store on Active Data Guard standby	N	
Fault Tolerant In-Memory Column Store	N	
Automatic In-Memory Column Store	N	
In-Memory Column Store support for External Tables	N	
In-Memory Aggregation	Y	
MemOptimized Row Store	N	
Attribute Clustering	Y	
Zone Maps	N	

**Table 1-8 Scalability**

Feature/Option/Pack	Availability	Notes
Oracle Real Application Clusters (Oracle RAC)	N	
Automatic Workload Management	N	
Quality of Service Management	N	
Oracle NoSQL Database Basic Edition	N	

**Table 1-9 Security**

Feature/Option/Pack	Availability	Notes
Column-Level Encryption	Y	
Tablespace Encryption	Y	TDE online method to encrypt/rekey/decrypt an existing tablespace is not supported. See Oracle Advanced Security Guide for details
Oracle Advanced Security	Y	
Oracle Database Vault	Y	
Oracle Label Security	Y	
Enterprise User Security	N	
Centrally Managed Users	Y	
Fine-grained auditing	Y	
Privilege Analysis	Y	
Real Application Security	Y	
Redaction	Y	

**Table 1-9 (Cont.) Security**

Feature/Option/Pack	Availability	Notes
Transparent Sensitive Data Protection	Y	
Virtual Private Database	Y	
Keystore for Each Pluggable Database	N	

**Table 1-10 Snapshots and Cloning**

Feature/Option/Pack	Availability	Notes
Storage Snapshot Optimization	N	

**Table 1-11 Spatial and Graph Data**

Feature/Option/Pack	Availability	Notes
Oracle Spatial and Graph	Y	
Property Graph and RDF Graph Technologies (RDF/OWL)	Y	
Parallel spatial index builds	N	
Multimaster replication of SDO_GEOMETRY objects	N	
Partitioned spatial indexes	Y	

**Table 1-12 VLDB, Data Warehousing, and Business Intelligence**

Feature/Option/Pack	Availability	Notes
Oracle Partitioning	Y	
Oracle On-Line Analytical Processing (OLAP)	N	
Oracle Advanced Analytics	Y	
Oracle Advanced Compression	Y	
Advanced Index Compression	Y	
Prefix Compression (also called Key Compression)	Y	
Hybrid Columnar Compression	N	
Hybrid Columnar Compression Row-Level Locking	N	
Exadata Flash Cache Compression	N	
Heat Map	N	
Automatic Data Optimization	N	
Basic Table Compression	Y	
Deferred Segment Creation	Y	
Bitmapped index, bitmapped join index, and bitmap plan conversions	Y	
Parallel query/DML	N	
Parallel statistics gathering	N	
Parallel index build/scans	N	

**Table 1-12 (Cont.) VLDB, Data Warehousing, and Business Intelligence**

Feature/Option/Pack	Availability	Notes
Parallel Data Pump Export/Import	N	
In-memory Parallel Execution	N	
Parallel Statement Queuing	N	
Parallel capture and apply via XStream	N	
Transportable tablespaces, including cross-platform and full transportable export and import	Y	
Summary management—Materialized View Query Rewrite	Y	

## 1.2.2 Additional Components

The following development platforms are not included with Oracle Database XE. You can download them separately and use them with XE

- Oracle SQL Developer
- Oracle Application Express (APEX)
- Oracle Developer Tools for Visual Studio
- Oracle REST Data Services (ORDS)

## 1.3 Third-Party Licenses

This section includes third-party license information for all third-party products included with Oracle Database Express Edition (XE). Oracle acknowledges that following Third Party and Open Source software are used in the provided programs covered by this documentation.

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**Figure 1-1 RSA Secure Logo**

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```
cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \  
co -D2006-11-20 mozilla/js/rhino
```

The patch is available here:

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[https://bugzilla.mozilla.org/show\\_bug.cgi?id=367627](https://bugzilla.mozilla.org/show_bug.cgi?id=367627)

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`org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java`

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`org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java`

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=====  
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-----  
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=====

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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
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- jsp\_2\_3.xsd



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- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd

- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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Version 1.1 - 26 February 2007

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This code is derived from the code associated with the book "An Introduction to NURBS" by David F. Rogers. More information on the book and the code is available at: <http://www.nar-associates.com/nurbs/>

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scss/oj/v1.1.0/3rdparty/normalize/normalize.scss	MIT
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=== jsTree 1.0-rc3 ===

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=== jQuery UI - v1.11.4 ===

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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\* <http://hammerjs.github.io/>

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js/libs/require/text.js	MIT 2.0.15
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js/libs/proj4js/dist/proj4.js	Proj4js 2.3.14
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=== knockout-amd-helpers 0.7.3 ===

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=== Normalize.css ===

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=== jsTree 1.0-rc3 ===

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```
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 * http://hammerjs.github.io/
 *
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 */
```

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in src/lib/gssapi, including the following files:

```
lib/gssapi/generic/gssapi_err_generic.et  
lib/gssapi/mechglue/g_accept_sec_context.c  
lib/gssapi/mechglue/g_acquire_cred.c  
lib/gssapi/mechglue/g_canon_name.c  
lib/gssapi/mechglue/g_compare_name.c  
lib/gssapi/mechglue/g_context_time.c  
lib/gssapi/mechglue/g_delete_sec_context.c  
lib/gssapi/mechglue/g_dsp_name.c
```

```
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
```

and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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### Mersenne Twister

-----

The :mod:'\_random' module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

-----  
The :mod:'socket' module uses the functions, :func:'getaddrinfo',  
and :func:'getnameinfo', which are coded in separate source files from the WIDE  
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### MD5 message digest algorithm

-----

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L. Peter Deutsch

ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix

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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.

1999-11-04 lpd Edited comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.

1999-05-03 lpd Original version.

Asynchronous socket services

-----

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

-----

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strtod and dtoa

-----

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#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
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#### Mersenne Twister

-----

The `:mod:'_random'` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: `m-mat @ math.sci.hiroshima-u.ac.jp` (remove space)

#### Sockets

-----

The `:mod:'socket'` module uses the functions, `:func:'getaddrinfo'`, and `:func:'getnameinfo'`, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::



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#### Asynchronous socket services

-----

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Cookie management

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UUencode and UUdecode functions

-----

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

-----

The :mod:'xmlrpc.client' module contains the following notice::

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SipHash24

-----

The file :file:'Python/pyhash.c' contains Marek Majkowski' implementation of

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves ([supercop/crypto\\_auth/siphash24/little](https://github.com/supercop/crypto_auth/siphash24/little))

djb ([supercop/crypto\\_auth/siphash24/little2](https://github.com/supercop/crypto_auth/siphash24/little2))

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

-----

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-----

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cfuhash

-----

The implementation of the hash table used by the `:mod:'tracemalloc'` is based on the cfuhash project::

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Lib/sqlite3/\_\_init\_\_.py

:::::::::::::

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Modules/timing.h

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::::::::::::
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#
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