# Oracle® Database Database Licensing Information User Manual





Oracle Database Database Licensing Information User Manual, 18c

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Contributors: Prabhaker Gongloor, Mughees Minhas, Anu Natarajan, Jill Robinson, Jenny Tsai-Smith

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## Contents

	_	- 1	_	_	_
ப	r۷	וב	้ล	റ	Δ
			$\boldsymbol{\alpha}$	١.	Γ.

Aud	ience	١
Doc	umentation Accessibility	\
Dive	ersity and Inclusion	١
Rela	ated Documents	١
Con	ventions	V
Lic	ensing Information	
1.1	Introduction	1-1
1.2	Oracle Database Offerings	1-1
1.3	Permitted Features, Options, and Management Packs by Oracle Database Offering	1-3
1.4	Oracle Database Options and Their Permitted Features	1-18
1.5	Oracle Management Packs and Their Permitted Features	1-23
1.6	Checking for Feature, Option, and Management Pack Usage	1-46
1.7	Special License Rights	1-47
1.8	Restricted Use Licenses	1-52
Thi	rd-Party Notices and/or Licenses	
2.1	Commercial Software	2-1
2.2	Open Source or Other Separately Licensed Software	2-2
2.3	Written Offer for Source Code	2-48
Ор	en Source Software License Text	
A.1	Apache Batik SVG Toolkit 1.9 License	A-1
A.2	Apache Batik SVG Toolkit 1.10 License	A-4
	Annales Commune Matte C C 1 Linears	۸ 01
A.3	Apache Commons Math 3.6.1 License	A-21
A.3 A.4	Apache Tomcat 8.5.32 License	A-21 A-26
	·	
A.4	Apache Tomcat 8.5.32 License	A-26



Α.8	Implementation (GDAL/OGR) 2.1 License	A-63
A.9	JavaScript Extension Toolkit (JET) 2.0.2 License	A-66
A.10	JavaScript Extension Toolkit (JET) 3.0.0 License	A-74
A.11	JavaScript Extension Toolkit (JET) 3.2.0 License	A-82
A.12	Kerberos 1.15 License	A-89
A.13	Perl 5.22.0 License	A-108
A.14	Protocol Buffers (aka Google protobuf) 3.5.1 License	A-110
A.15	Python 2.7.14 License	A-112
A.16	Python 3.5.3 License	A-129
A.17	The Apache Software License, Version 1.1	A-147
A.18	The Apache Software License, Version 2.0	A-148
A.19	TinkerPop Gremlin Server 3.3.1 License	A-151
A.20	ant 1.9.6 License	A-158



Index

## **Preface**

This Preface contains these topics:

- Audience
- Documentation Accessibility
- · Diversity and Inclusion
- Related Documents
- Conventions

## **Audience**

This book is intended for all purchasers of Oracle Database 18c.

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### **Related Documents**

For more information, see these Oracle resources:

Oracle Database New Features Guide for information on the features new to this release
of Oracle Database



Oracle Global Pricing and Licensing, available at:

http://www.oracle.com/us/corporate/pricing/index.html

 Oracle Database licensing guidelines, available at: https://www.oracle.com/assets/databaselicensing-070584.pdf

## 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

## **Licensing Information**

- Introduction
- Oracle Database Offerings
- Permitted Features, Options, and Management Packs by Oracle Database Offering
- Oracle Database Options and Their Permitted Features
- Oracle Management Packs and Their Permitted Features
- · Checking for Feature, Option, and Management Pack Usage
- Special License Rights
- Restricted Use Licenses

### 1.1 Introduction

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle software program(s) covered by this document (the "Program(s)"). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website (https://edelivery.oracle.com) or from media Oracle may provide. If you have a question about your license rights and obligations, please contact your Oracle sales representative, review the information provided in Oracle's Software Investment Guide (http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html), and/or contact the applicable Oracle License Management Services representative listed on http://www.oracle.com/us/corporate/license-management-services/index.html.

## 1.2 Oracle Database Offerings

Table 1-1 Oracle Database Offerings

Oracle Database Offering	License Deployment Options	Abbreviated Name Used in this Guide	Description
Oracle Database Standard Edition 2	On-Premises, OCI*, and ACEs**	SE2	Oracle Database Standard Edition 2 includes features necessary to develop workgroup, department-level, and Web applications.



Table 1-1 (Cont.) Oracle Database Offerings

Oracle Database Offering	License Deployment Options	Abbreviated Name Used in this Guide	Description
Oracle Database Enterprise Edition	On-Premises, OCI*, and ACEs**	EE	Oracle Database Enterprise Edition provides performance, availability, scalability, and security for developing applications such as high-volume online transaction processing (OLTP) applications, query-intensive data warehouses, and demanding Internet applications.
			Oracle Database Enterprise Edition can be enhanced with the purchase of Oracle Database options and Oracle management packs.
Oracle Database Enterprise Edition on Engineered Systems	On-Premises, OCI*, and ACEs**	EE-ES	Oracle Database Enterprise Edition software installed on an engineered system (Oracle Exadata Database Machine or Oracle Database Appliance).
			Includes all of the components of Oracle Database. You can further enhance this offering with the purchase of Oracle Database options and Oracle management packs.
			The licensing policies for EE-ES vary depending on whether it is installed on Oracle Exadata Database Machine or Oracle Database Appliance. Be sure to make note of these differences, which are documented in the subsequent sections of this guide.
Oracle Database Personal Edition	On-Premises	PE	Oracle Database Personal Edition supports single-user development and deployment environments that require full compatibility with Oracle Database Standard Edition 2 and Oracle Database Enterprise Edition.
			Includes all of the components that are included with Enterprise Edition, as well as all Oracle Database options, with the exception of the Oracle RAC One Node and Oracle Real Application Clusters options, which cannot be used with Personal Edition. Personal Edition is available on Linux and Windows platforms only. Oracle management packs cannot be used with Personal Edition.
Oracle Base Database Service Standard Edition	OCI*	BaseDB SE	Includes Oracle Database Standard Edition 2 software
Oracle Base Database Service Enterprise Edition	OCI*	BaseDB EE	Includes Oracle Database Enterprise Edition software
Oracle Base Database Service Enterprise Edition - High Performance	OCI*	BaseDB EE-HP	Includes Oracle Base Database Service Enterprise Edition software plus many Oracle Database options and Oracle management packs
Oracle Base Database Service Enterprise Edition - Extreme Performance	OCI*	BaseDB EE-EP	Includes Oracle Base Database Service Enterprise Edition software plus all Oracle Database options and Oracle management packs that are appropriate for use in the cloud.



Table 1-1 (Cont.) Oracle Database Offerings

Oracle Database Offering	License Deployment Options	Abbreviated Name Used in this Guide	Description
Oracle Database Exadata Cloud Service	OCI*	ExaCS/CC	This guide uses <b>ExaCS/CC</b> to describe the licensing policies for both Oracle Database
Oracle Database Exadata Cloud@Customer			Exadata Cloud Service and Oracle Database Exadata Cloud@Customer.
			These offerings include Oracle Database Enterprise Edition software plus all Oracle Database options and Oracle management packs that are appropriate for use in Oracle Database Exadata Cloud Service or Oracle Database Exadata Cloud@Customer.

<sup>\*</sup> OCI: Oracle Cloud Infrastructure

Authorized Cloud Environments include Amazon Web Services—Amazon Elastic Compute Cloud (EC2), Amazon Relational Database Service (RDS), and Microsoft Azure Platform. For more information, see <a href="https://www.oracle.com/assets/cloud-licensing-070579.pdf">https://www.oracle.com/assets/cloud-licensing-070579.pdf</a>.

All other public clouds are not Authorized Cloud Environments. These include, for example, Google Cloud Platform, IBM Cloud, Alibaba Cloud,

and

environments that are in any way considered an extension of non-Authorized Cloud Environments, such as cloud management, cloud billing, cloud support, cloud automation, cloud images, or cloud monitoring software. Other examples are Google Bare Metal Solution, Amazon AWS Outpost, IBM Bluemix Local, and Alibaba Hybrid Cloud.

## 1.3 Permitted Features, Options, and Management Packs by Oracle Database Offering

The tables in this section list Oracle Database features, Oracle Database options, and Oracle management packs, and their availability for each Oracle Database offering. The  $\underline{Y}$  value in a column means that the feature, option, or pack is available for a particular offering;  $\underline{N}$  means that it is unavailable;  $\underline{N}/\underline{A}$  means that it is not applicable. These tables can help you understand the difference between Oracle Database offerings to determine which one is right for you.

The tables are organized into the following functional categories:

- Consolidation Table 1-2
- Development Platform Table 1-3
- High Availability Table 1-4
- Integration Table 1-5
- Manageability Table 1-6



<sup>\*\*</sup>ACEs: Authorized Cloud Environments

- Networking Table 1-7
- Performance Table 1-8
- Scalability Table 1-9
- Security Table 1-10
- Snapshots and Cloning Table 1-11
- Spatial and Graph Data Table 1-12
- VLDB, Data Warehousing, and Business Intelligence Table 1-13



Table 1-2 Consolidation

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Oracle Multitenant - # of PDBs	1	252	4096	1	1	4096	4096	4096	The number value in each column indicates the maximum number of pluggable databases (PDBs that can be created for each offering.  • For all offerings, if you are not licensed for Oracle Multitenant, then the container database architecture is available in single-tenant mode, that is, with one usercreated PDB, one usercreated application root and one user-created proxy PDB.  • EE: Extra cost option; if you are licensed for Oracle Multitenant, then you can create up to 25 PDBs.  • EE-ES: Extra cost option; if you are licensed for Oracle Multitenant, then you can create up to 4096 PDBs.  • BaseDB EE-HP, BaseDB EE-EP, and ExaCS/CC: License included option: You can create up to 4096 PDBs.  BYOL option: Limit is 3 PDBs, unless you purchase the Oracle Multitenant option.  Authorized Cloud Environments: Use is limite to three pluggable database per container database.  Note: For licensing purpose one non-CDB instance is equivalent to one usercreated PDB inside one CDI
CDB Fleet	N	N	Y	N	Υ	Υ	Υ	Υ	- Catoa i DD moide one OD
Management PDB Snapshot Carousel	N	N	Υ	N	Υ	Υ	Υ	Υ	
Refreshable PDB switchover	N	N	Υ	Y	Υ	Υ	Υ	Υ	



**Table 1-3 Development Platform** 

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
SQLJ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Requires Oracle Programmer
Oracle Developer Tools for Visual Studio	Y	Υ	N/A	N/A	N/A	N/A	N/A	N/A	Windows only
Microsoft Distributed Transaction Coordinator support	Y	Y	N/A	N/A	N/A	N/A	N/A	N/A	Windows only
Native .NET Data Provider—ODP.NET	Υ	Υ	N/A	N/A	N/A	N/A	N/A	N/A	Windows only
.NET Stored Procedures	Y	Υ	N/A	N/A	N/A	N/A	N/A	N/A	Windows only

Table 1-4 High Availability

Feature / Option / Pack	SE2	EE	EE- ES	Base DB	Base DB	Base DB	Base DB	ExaCS /CC	Notes
				SE	EE	EE-HP	EE-EP		
Application Continuity	N	Y	Y	N	N	N	Y	Y	EE and EE-ES: Requires the Oracle Active Data Guard option, the Oracle RAC One Node option, or the Oracle Real Application Clusters option
Oracle Sharding	N	Y	Y	N	Y	Y	Y	Y	EE and EE-ES: No limit on the number of either primary shards or standby shards if every shard has an Oracle Active Data Guard, Oracle GoldenGate, or Oracle RAC license. Without an Oracle Active Data Guard, Oracle GoldenGate, or Oracle RAC license, use is limited to three primary shards, with basic Data Guard standbys.
									BaseDB EE, BaseDB EE-HP, and Authorized Cloud Environments: Use is limited to three primary shards; there is no limit on the number of standby shards.
									BaseDB EE-EP and ExaCS/CC: No limit on the number of either primary shards or standby shards.
Oracle Fail Safe	Υ	Υ	N/A	N/A	N/A	N/A	N/A	N/A	Windows only
Oracle RAC One Node	Y	Υ	Υ	N	N	N	N	N	EE and EE-ES: Extra cost option



Table 1-4 (Cont.) High Availability

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Oracle Data Guard— Redo Apply	N	Υ	Υ	N	Y	Y	Y	Y	
Oracle Data Guard— Far Sync Standby	N	Υ	Υ	N	N	N	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Active Data Guard option
Oracle Data Guard— SQL Apply	N	Υ	Y	N	Υ	Υ	Y	Υ	
Oracle Data Guard— Snapshot Standby	N	Υ	Υ	N	Y	Υ	Υ	Y	
Oracle Data Guard— Real-Time Cascading Standbys	N	Υ	Υ	N	N	N	Y	Y	EE and EE-ES: Requires the Oracle Active Data Guard option
Oracle Data Guard— Automatic Correction of Non-logged Blocks at a Data Guard Standby Database	N	N	Υ	N	N	N	Y	Y	<b>EE-ES</b> : Requires the Oracle Active Data Guard option
Oracle Active Data Guard	N	Υ	Y	N	N	N	Y	Υ	EE and EE-ES: Extra cost option
Rolling Upgrades— Patch Set, Database, and Operating System	N	Υ	Υ	N	Y	Y	Y	Υ	
Rolling Upgrade Using Active Data Guard	N	Υ	Y	N	N	N	Y	Y	EE and EE-ES: Requires the Oracle Active Data Guard option
Online index rebuild	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Online table organization	N	Υ	Υ	N	Υ	Y	Υ	Y	ALTER TABLE MOVE ONLINE operations
Online table redefinition	N	Υ	Υ	N	Υ	Y	Y	Y	Using the DBMS_REDEFINITION package
Duplexed backup sets	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Block change tracking for fast incremental backup	N	Υ	Y	N	Υ	Υ	Y	Y	
Unused block compression in backups	N	Υ	Υ	N	Y	Y	Y	Y	
Block-level media recovery	N	Υ	Y	N	Υ	Y	Υ	Υ	
Lost Write Protection	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Automatic Block Repair	N	Υ	Υ	N	N	N	Υ	Υ	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Active Data Guard option



Table 1-4 (Cont.) High Availability

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Parallel backup and recovery	N	Υ	Y	N	Υ	Y	Y	Υ	
Tablespace point-in- time recovery	N	Υ	Y	N	Υ	Υ	Y	Y	
Trial recovery	N	Υ	Υ	N	Υ	Υ	Y	Υ	
Fast-start fault recovery	N	Υ	Υ	N	Y	Y	Y	Y	
Flashback Table	N	Υ	Υ	N	Υ	Υ	Y	Υ	
Flashback Database	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Flashback Transaction	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Flashback Transaction Query	N	Υ	Υ	N	Y	Y	Υ	Y	
Optimization for Flashback Data	N	Υ	Υ	N	N	Υ	Υ	Υ	Basic Flashback Data Archive is in all offerings
Archive									<b>EE</b> and <b>EE-ES</b> : Optimization for Flashback Data Archive requires the Oracle Advanced Compression option
Online Datafile Move	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Transaction Guard	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Cross-platform Backup and Recovery	N	Υ	Υ	N	Y	Y	Υ	Y	
Global Data Services	N	Υ	Y	N	N	N	Y	Y	EE and EE-ES: Requires the Oracle Active Data Guard option
Recovering tables and table partitions from RMAN backups	N	Υ	Y	N	Y	Υ	Y	Y	

Table 1-5 Integration

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Oracle Streams	Y	Υ	Y	Y	Y	Y	Y	Y	SE2 and BaseDB SE: No capture from redo
Database Gateways	Y	Υ	Y	Y	Y	Υ	Y	Y	Database Gateway for ODBC is included in all offerings.
									All other Database Gateway products are available for all offerings, but require a separate product license.
Messaging Gateway	N	Υ	Υ	N	Υ	Υ	Υ	Υ	



Table 1-5 (Cont.) Integration

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	DB	Base DB EE-HP	DB	ExaCS /CC	Notes
AQ Sharded Queues	N	Υ	Y	N	N	Υ	Υ	Υ	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Partitioning option

Table 1-6 Manageability

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Oracle Cloud Management Pack for Oracle Database	N	Y	Υ	N	N	Y	Y	Υ	EE and EE-ES: Extra cost option
Oracle Data Masking and Subsetting Pack	N	Υ	Y	N	Υ	Y	Y	Υ	EE and EE-ES: Extra cost option
Oracle Database Lifecycle Management Pack for Oracle Database	N	Υ	Y	N	N	Y	Y	Y	EE and EE-ES: Extra cost option
Oracle Diagnostics Pack	N	Υ	Y	N	Υ	Y	Y	Υ	EE and EE-ES: Extra cost option
Oracle Tuning Pack	N	Υ	Υ	N	Y	Y	Y	Y	EE and EE-ES: Extra cost option, also requires Oracle Diagnostics Pack
Oracle Real Application Testing	N	Y	Y	N	Υ	Y	Y	Υ	EE and EE-ES: Extra cost option
Database Resource Manager	N	Υ	Υ	N	Υ	Y	Υ	Υ	
I/O Resource Management	N	N	Υ	N	N	N	N	Υ	
Instance Caging	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	



Table 1-6 (Cont.) Manageability

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
SQL Plan Management	Y	Y	Y	Y	Y	Y	Y	Y	SQL Plan Management does not require a license for Oracle Diagnostics Pack or Oracle Tuning Pack
									SE2 and BaseDB SE Summary: Only one SQL plan baseline per SQL statement is allowed and SQL plan evolution is disabled.
									SE2 and BaseDB SE Details:
									SQL plan baselines can be created or captured using the following methods:
									• Auto capture (OPTIMIZER_CAPTURESQL_PLAN_BASELINE =TRUE)
									• Manual loading from the cursor cache (DBMS_SPM.LOAD_PLA NS_FROM CURSOR CACHE)
									Migration from stored outlines     (DBMS_SPM.MIGRATE_STORED OUTLINE)
									• Import using DBMS_SPM.UNPACK_ST GTAB_BASELINE
									2. All capture and creation methods store only one SQL plan baseline per SQL statement.
									3. SQL plan baselines can be exported and imported using  DBMS_SPM.CREATE_STGTA  B_BASELINE,  DBMS_SPM.PACK_STGTAB_  BASELINE, and  DBMS_SPM.UNPACK_STGTA  B_BASELINE.
									<ol> <li>Unused SQL plan baselines are not auto- purged.</li> </ol>
									5. Alternative SQL execution plans for SQL statements



Table 1-6 (Cont.) Manageability

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
									are not added to the SQL plan history.
									6. SQL plan baselines can be altered and dropped (DBMS_SPM.ALTER_SQL_P LAN_BASELINE and DBMS_SPM.DROP_SQL_PLA N_BASELINE).
									7. The following DBMS_SPM functions and procedures are not allowed:  CONFIGURE,  LOAD_PLANS_FROM_AWR,  LOAD_PLANS_FROM_SQLSE  T, and all functions and procedures associated with SQL plan evolution.
SQL Tuning Sets	N	Y	Y	N	Y	Y	Y	Y	EE and EE-ES: SQL Tuning Sets can also be accessed by way of database server APIs and command-line interfaces. Usage of any subprograms in the DBMS_SQLSET package to manage SQL Tuning Sets is part of the EE and EE-ES offerings. In addition, the following subprograms, part of the DBMS_SQLTUNE package, provide an older interface to manage SQL Tuning Sets and are also part of the EE and EE- ES offerings: ADD_SQLSET_REFERENCE, CAPTURE_CURSOR_CACHE_SQL SET, CREATE_SQLSET, CREATE_STGTAB_SQLSET, DELETE_SQLSET, DROP_SQLSET_REFERENCE, SELECT_CURSOR_CACHE, SELECT_CURSOR_CACHE, SELECT_SQLSET, SELECT_WORKLOAD_REPOSITO RY, UNPACK_STGTAB_SQLSET, UPDATE_SQLSET.



Table 1-6 (Cont.) Manageability

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Oracle Fleet Patching and Provisioning	N	Υ	Υ	N/A	N/A	N/A	N/A	N/A	EE and EE-ES: When deployed across multiple clusters, each
(formerly Rapid Home Provisioning)									FPP-managed target must be licensed for one of the following: Oracle Database Lifecycle Management Pack, Oracle RAC, or Oracle RAC One Node

Table 1-7 Networking

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
RDMA fabric	N	N	Υ	N	N	N	N	Υ	<b>EE-ES</b> : Available on Exadata. Not available on Oracle Database Appliance.
Oracle Connection Manager	N	Υ	Y	N	Y	Y	Y	Y	Available via a custom install of the Oracle Database client, usually installed on a separate machine or compute instance
Network Compression	N	Y	Υ	N	N	Υ	Y	Υ	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Advanced Compression option

Table 1-8 Performance

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Client Side Query Cache	N	Υ	Y	N	Υ	Y	Y	Υ	
Query Results Cache	N	Υ	Υ	N	Υ	Υ	Υ	Y	
PL/SQL Function Result Cache	N	Υ	Y	N	Y	Y	Y	Y	
Oracle TimesTen Application-Tier Database Cache	N	Y	Υ	N	N	N	N	N	EE and EE-ES: Extra cost option
Database Smart Flash Cache	N	Υ	Υ	N/A	N/A	N/A	N/A	N/A	<b>EE</b> : Solaris and Oracle Linux only
									<b>EE-ES</b> : Available on Oracle Database Appliance. Not available on Exadata
Support for Oracle Exadata Storage Server Software	N	N	Y	N	N	N	N	Y	<b>EE-ES</b> : Available on Exadata. Not available on Oracle Database Appliance.



Table 1-8 (Cont.) Performance

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Adaptive Execution Plans	N	Υ	Υ	N	Y	Y	Y	Y	
Concurrent Execution of UNION and UNION ALL Branches	N	Υ	Y	N	Υ	Y	Y	Υ	
Oracle Database In- Memory	N	Υ	Υ	N	N	N	Y	Y	EE and EE-ES: Extra cost option
In-Memory Column Cache on Storage Servers	N	N	Y	N	N	N	N	Y	<b>EE-ES</b> : Available on Exadata and requires the Oracle Database In-Memory option. Not available on Oracle Database Appliance.
									Requires Exadata or Supercluster
In-Memory Column Store on Active Data Guard standby	N	N	Y	N	N	N	N	Y	EE-ES: Available on Exadata and requires the Oracle Database In-Memory option and the Oracle Active Data Guard option. Not available on Oracle Database Appliance.
Fault Tolerant In- Memory Column Store	N	N	Y	N	N	N	N	Y	EE-ES: Available on Exadata and Oracle Database Appliance. Requires the Oracle Database In-Memory option and the Oracle Real Application Clusters option.
									Requires Exadata, Supercluster, or Infiniband- based Oracle Database Appliance
Automatic In-Memory	N	N	Υ	N	N	N	Y	Y	<b>EE-ES</b> : Requires the Oracle Database In-Memory option
In-Memory Column Store support for External Tables	N	N	Υ	N	N	N	N	Y	EE-ES: Available on Exadata and requires the Oracle Database In-Memory option. Not available on Oracle Database Appliance.
In-Memory Aggregation	N	Υ	Y	N	N	N	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Database In-Memory option
Memoptimized Rowstore	N	N	Υ	N	N	N	N	Y	<b>EE-ES</b> : Available on Exadata. Not available on Oracle Database Appliance.
Attribute Clustering	N	Υ	Υ	N	Υ	Υ	Υ	Υ	



Table 1-8 (Cont.) Performance

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Zone Maps	N	N	Y	N	N	N	N	Y	<b>EE-ES</b> : Available on Exadata and requires the Oracle Partitioning option. Not available on Oracle Database Appliance.

Table 1-9 Scalability

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Oracle Real Application Clusters (Oracle RAC)	Υ	Υ	Υ	N	N	N	Υ	Y	EE and EE-ES: Extra cost option
Automatic Workload Management	Y	Y	Y	N	N	N	Y	Υ	EE and EE-ES: Requires the Oracle Real Application Clusters option
Quality of Service Management	Υ	Υ	Y	N	N	N	Y	Y	EE and EE-ES: Requires the Oracle RAC One Node option or the Oracle Real Application Clusters option
Oracle NoSQL Database Enterprise Edition	N	Υ	Υ	N/A	N/A	N/A	N/A	N/A	

Table 1-10 Security

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Transparent Data Encryption (TDE) for Columns	N	Υ	Y	N	N	Y	Y	Υ	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Advanced Security option
Transparent Data Encryption (TDE) for Tablespaces	N	Y	Y	Y	Υ	Υ	Y	Υ	EE and EE-ES: Requires the Oracle Advanced Security option
Oracle Advanced Security	N	Y	Y	N	N	Y	Y	Y	EE and EE-ES: Extra cost option
Oracle Database Vault	N	Υ	Y	N	N	Υ	Y	Υ	EE and EE-ES: Extra cost option
Oracle Label Security	N	Y	Y	N	N	Y	Y	Υ	EE and EE-ES: Extra cost option



Table 1-10 (Cont.) Security

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Enterprise User Security	N	Y	Y	N	Y	Y	Y	Y	EE, EE-ES, BaseDB EE, BaseDB EE-HP, BaseDB EE- EP, and ExaCS/CC: Enterprise User Security is a feature for directory-based management of database users. It requires a corresponding Oracle Identity Management Directory Services Plus to be licensed.
Centrally Managed Users	N	Y	Y	N	Y	Y	Y	Y	EE, EE-ES, BaseDB EE, BaseDB EE-HP, BaseDB EE- EP, and ExaCS/CC: Centrally Managed Users is a feature for centrally authenticating and authorizing database users with Microsoft Active Directory.
Fine-grained Auditing	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Privilege Analysis	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Real Application Security	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Redaction	N	Υ	Υ	N	N	Y	Y	Y	EE and EE-ES: Requires the Oracle Advanced Security option
Transparent Sensitive Data Protection	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Virtual Private Database	N	Υ	Υ	N	Υ	Y	Υ	Y	
Keystore for Each Pluggable Database	N	N	Y	N	Y	Y	Υ	Υ	EE-ES: Requires the Oracle Advanced Security option CLOUD: Only available in OCI.

Table 1-11 Snapshots and Cloning

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Storage Snapshot Optimization	N	Υ	Y	N/A	N/A	N/A	N/A	N/A	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Advanced Compression option



Table 1-12 Spatial and Graph Data

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Oracle Spatial and Graph	Y	Υ	Y	Y	Y	Y	Y	Y	Oracle Spatial and Graph no longer requires an extra cost license. See Oracle Database Insider blog post for more information.
Property Graph and RDF Graph Technologies (RDF/ OWL)	Y	Υ	Y	Y	Y	Y	Y	Y	Property Graph and RDF Graph Technologies (RDF/OWL) no longer requires an extra cost license. See Oracle Database Insider blog post for more information.
Parallel spatial index builds	N	Υ	Υ	N	Υ	Y	Υ	Υ	
Partitioned spatial indexes	N	Υ	Y	N	N	Y	Υ	Υ	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Partitioning option

Table 1-13 VLDB, Data Warehousing, and Business Intelligence

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Oracle Partitioning	N	Υ	Y	N	N	Y	Y	Υ	EE and EE-ES: Extra cost option
Oracle On-Line Analytical Processing (OLAP)	N	Y	Y	N	N	Y	Y	Υ	EE and EE-ES: Extra cost option
Oracle Machine Learning (formerly Advanced Analytics)	Y	Y	Y	Y	Y	Y	Y	Y	Oracle Machine Learning no longer requires an extra cost license. See Oracle Database Insider blog post for more information.
Oracle Advanced Compression	N	Υ	Υ	N	N	Y	Y	Υ	EE and EE-ES: Extra cost option
Advanced Index Compression	N	Y	Υ	N	N	Υ	Y	Υ	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Advanced Compression option
Prefix Compression (also called Key Compression)	N	Υ	Y	N	Υ	Y	Υ	Y	
Hybrid Columnar Compression	N	Υ	Υ	N	Y	Y	Y	Y	<b>EE</b> : Requires ZFS, Axiom, or FS1 storage
Row-Level Locking for Hybrid Columnar Compression	N	Υ	Y	N	N	N	N	Y	EE: Requires ZFS or FS1 storage, and the Oracle Advanced Compression option EE-ES: Requires the Oracle Advanced Compression option



Table 1-13 (Cont.) VLDB, Data Warehousing, and Business Intelligence

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS /CC	Notes
Exadata Flash Cache Compression	N	N	Y	N	N	N	N	Y	<b>EE-ES</b> : Available on Exadata and requires the Oracle Advanced Compression option. Not available on Oracle Database Appliance.
Heat Map	N	Y	Y	N	N	Y	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Advanced Compression option or the Oracle Database In-Memory option
Automatic Data Optimization	N	Υ	Y	N	N	Y	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Advanced Compression option or the Oracle Database In-Memory option
Basic Table Compression	N	Υ	Υ	N	Υ	Y	Υ	Υ	
Deferred Segment Creation	N	Υ	Υ	N	Y	Υ	Y	Y	
Bitmapped index, bitmapped join index, and bitmap plan conversions	N	Y	Y	N	Y	Y	Y	Y	
Parallel query/DML	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Parallel statistics gathering	N	Υ	Υ	N	Y	Y	Y	Y	
Parallel index build/ scans	N	Υ	Υ	N	Y	Y	Y	Y	
Parallel Data Pump Export/Import	N	Υ	Υ	N	Υ	Y	Υ	Υ	
In-Memory Parallel Execution	N	Υ	Υ	N	Υ	Y	Υ	Υ	
Parallel Statement Queuing	N	Υ	Υ	N	Υ	Y	Υ	Υ	
Parallel capture and apply via XStream	N	Υ	Y	N	Υ	Y	Υ	Y	
Transportable tablespaces, including cross-platform and full transportable export and import	N	Y	Y	N	Y	Y	Y	Y	Import of transportable tablespaces is supported from all offerings that include Enterprise Edition software into SE2; this does not include the use of cross-platform capabilities.
Summary management— Materialized View Query Rewrite	N	Y	Υ	N	Y	Υ	Υ	Υ	



## 1.4 Oracle Database Options and Their Permitted Features

Table 1-14 lists Oracle Database options, the Oracle Database offerings for which each option is available, and the features that are included with each option. You must be licensed for an option in order to use any of its features.

Table 1-14 Oracle Database Options and Their Permitted Features

Option	Availability	Included Features
Oracle Active Data Guard	Extra cost option: EE, EE-ES Included option: PE, BaseDB EE-EP, ExaCS/CC	
		required if any of the pluggable databases in the standby is opened for read.



Table 1-14 (Cont.) Oracle Database Options and Their Permitted Features

Option	Availability	Included Features
Oracle Advanced Compression	Extra cost option: EE, EE-ES Included option: PE, BaseDB EE-HP, BaseDB EE-EP, ExaCS/CC	<ul> <li>Oracle Advanced Compression includes the following features:</li> <li>Advanced Row Compression</li> <li>Advanced LOB Compression</li> <li>Advanced LOB Deduplication</li> <li>RMAN Backup Compression (RMAN DEFAULT COMPRESS does not require the Oracle Advanced Compression option)</li> <li>Data Pump Export Data Compression (COMPRESSION=METADATA_ONLY does not require the Oracle Advanced Compression option)</li> <li>Heat Map</li> <li>Automatic Data Optimization</li> <li>Data Guard Redo Transport Compression</li> <li>Advanced Network Compression</li> <li>Optimization for Flashback Data Archive History Tables</li> <li>Storage Snapshot Optimization</li> <li>Online Move Partition (to any compressed format)</li> <li>Exadata Flash Cache Compression (This feature can be enabled only on Exadata storage servers, and all database processors that access the Exadata storage servers must be licensed for Oracle Advanced Compression.)</li> <li>Advanced Index Compression</li> <li>Row-Level Locking for Hybrid Columnar Compression (Requires Exadata, Oracle Database Appliance, Supercluster, ZFS, or FS1 storage)</li> <li>Note: The use of Hybrid Columnar Compression without Row-Level Locking does not require a license for Oracle Advanced Compression.</li> </ul>
Oracle Advanced Security	Extra cost option: EE, EE-ES Included option: PE, BaseDB EE-HP, BaseDB EE-EP, ExaCS/CC	<ul> <li>Oracle Advanced Security includes the following features:</li> <li>Transparent Data Encryption (TDE) for columns and tablespaces (including Oracle SecureFiles)</li> <li>DataPump Export File encryption</li> <li>RMAN backup encryption to disk</li> <li>Encrypted Database File System (DBFS)</li> <li>Data Redaction of sensitive data returned to applications (Full, Partial, Regular Expression, and Random techniques)</li> <li>Oracle Advanced Security includes a restricted use license for certain Oracle Enterprise Manager features. Refer to Oracle Advanced Security in "Restricted Use Licenses" for more information.</li> <li>Note: Network encryption (native network encryption, network data integrity, and SSL/TLS) and strong authentication services (Kerberos, PKI, and RADIUS) are no longer part of Oracle Advanced Security and are available in all licensed editions of all supported releases of Oracle Database.</li> </ul>



Table 1-14 (Cont.) Oracle Database Options and Their Permitted Features

Option	Availability	Included Features
Oracle Database In- Memory	Extra cost option: EE, EE-ES Included option: PE, BaseDB EE-EP, ExaCS/CC	Oracle Database In-Memory includes the following features: In-Memory Column Store In-Memory Column Cache on Storage Servers (Requires Exadata or Supercluster) Fault Tolerant In-Memory Column Store (Requires Exadata, Supercluster, or Infiniband-based Oracle Database Appliance) In-Memory Aggregation Heat Map Automatic Data Optimization
Oracle Database Vault	Extra cost option: EE, EE-ES Included option: PE, BaseDB EE-HP, BaseDB EE-EP, ExaCS/CC	Oracle Database Vault includes the following features:  Separation of Duties  Realms  Command Rules  Trusted Paths  Oracle Database Vault includes special license rights for Oracle Label Security. Refer to Oracle Database Vault in "Special License Rights" for more information.  Oracle Database Vault includes a restricted use license for certain Oracle Enterprise Manager features. Refer to Oracle Database Vault in "Restricted Use Licenses" for more information.
Oracle Label Security	Extra cost option: EE, EE-ES Included option: PE, BaseDB EE-HP, BaseDB EE-EP, ExaCS/CC	Oracle Label Security includes the following features:  Label based access control (LBAC)  Multi-level security (MLS)  Label factors for Oracle Database Vault (Confidential, Sensitive)  User label authorizations (Confidential, Sensitive: PII)  Data labels (Sensitive: PII)  Oracle Label Security includes a restricted use license for certain Oracle Enterprise Manager features. Refer to Oracle Label Security in "Restricted Use Licenses" for more information.
Oracle Multitenant	Extra cost option: EE, EE-ES Included option: PE, BaseDB EE-HP, BaseDB EE-EP, ExaCS/CC	<ul> <li>Oracle Multitenant includes the following features:</li> <li>For EE and PE, the ability to have up to 252 pluggable databases per multitenant container database</li> <li>For EE-ES, BaseDB EE-HP, BaseDB EE-EP, and ExaCS/CC, the ability to have up to 4096 pluggable databases per multitenant container database</li> <li>A restricted use license for Oracle Multitenant is included with all Oracle Database offerings. Refer to Oracle Multitenant in "Restricted Use Licenses" for more information.</li> <li>Note: For licensing purposes, one non-CDB instance is equivalent to one user-created PDB inside one CDB.</li> </ul>
Oracle On-Line Analytical Processing (OLAP)	Extra cost option: EE, EE-ES Included option: PE, BaseDB EE-HP, BaseDB EE-EP, ExaCS/CC	Oracle On-Line Analytical Processing (OLAP) includes the following features:  OLAP Cube Definition, Storage, and Querying  OLAP API and Metadata  OLAP Cube Materialized Views  Analytic Workspaces  SQL Access to OLAP Cubes



Table 1-14 (Cont.) Oracle Database Options and Their Permitted Features

Option	Availability	Included Features
Oracle Partitioning	Extra cost option: EE, EE-ES Included option: PE, BaseDB EE-HP, BaseDB EE-EP, ExaCS/CC	<ul> <li>Oracle Partitioning includes the following features:</li> <li>Table Partitions and Subpartitions</li> <li>Global and Local Index Partitions and Subpartitions</li> <li>AQ Sharded Queues</li> <li>Zone Maps (Available only on EE-ES and ExaCS/CC; requires Exadata or Supercluster)</li> </ul>
Oracle RAC One Node	Extra cost option: <b>EE</b> , <b>EE-ES</b> Included option: <b>SE2</b>	<ul> <li>Oracle RAC One Node includes the following features:</li> <li>Database Cold Failover to another node in the cluster in case of server or instance failure</li> <li>Online migration of the database instance to another server</li> <li>Support for online rolling upgrades of the database, grid infrastructure, and OS homes</li> <li>Online upgrade to Oracle Real Application Clusters</li> <li>Policy-managed Server Pools</li> <li>Quality of Service Management</li> <li>Application Continuity</li> <li>Zero-Downtime Oracle Grid Infrastructure Patching</li> </ul>
Oracle Real Application Clusters (Oracle RAC)	Extra cost option: EE, EE-ES Included option: SE2, BaseDB EE-EP, ExaCS/CC	following features:



Table 1-14 (Cont.) Oracle Database Options and Their Permitted Features

Option	Availability	Included Features
Oracle Real Application Testing	<del>-</del>	Oracle Real Application Testing includes the following features:  Database Replay  SQL Performance Analyzer (SPA)  Database Migration Planner  Database Migration Workbench  Database Replay  The Oracle Real Application Testing license is required on both capture and replay systems for Database Replay and is charged by the total number of CPUs on those systems.  Use of Capture and Replay ASH Analytics Reports, Compare Period ADDM Reports, and Replay Compare Period Reports also requires an Oracle Diagnostics Pack license.  An Oracle Real Application Testing license permits you to access Database Replay functionality through Oracle Enterprise Manager, as well as through the following database server command-line APIs: DBMS_WORKLOAD_CAPTURE package and DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT () function also requires a license for Oracle Diagnostics Pack.  SQL Performance Analyzer (SPA)  An Oracle Real Application Testing license permits you to access SQL Performance Analyzer functionality through Oracle Enterprise Manager, as well as through the following database server command-line API: DBMS_SQLPA package, which is part of the Oracle Real Application Testing option.  Database Migration Planner  Database Migration Planner  Database Migration Planner  Database Migration Planner, introduced in Oracle Enterprise Manager Cloud Control 13.4,  Database Migration Planner, introduced in Oracle Enterprise Manager Cloud Control 13.4,  Database Migration Planner, introduced in Oracle Enterprise Manager Cloud Control 13.4,  Database Migration Planner, introduced in Oracle Enterprise Manager Cloud Control 13.4,  Database Migration Planner, introduced in Oracle Enterprise Manager Cloud Control 13.4,  Database Migration Planner, introduced in Oracle Enterprise Manager Cloud Control Planner requires an Oracle Diagnostics Pack license.  An Oracle Real Application Testing license permits you to access the following links on the Database Migration Planner.  From the Enterprise menu, select Migration and Consolidation, then select
		Enterprise Manager Cloud Control 13c Release 4, is a single workbench that integrates all needs for migration sizing and



Table 1-14 (Cont.) Oracle Database Options and Their Permitted Features

Option	Availability	Included Features			
		An Oracle Real Application Testing license permits you to access the following links on the Database Migration Workbench page in Oracle Enterprise Manager:			
		<ul> <li>From the Enterprise menu, select Migration and Consolidation, then select Database Migration Workbench.</li> </ul>			
		<ul> <li>All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Migration Workbench.</li> </ul>			
Oracle TimesTen Application-Tier	Extra cost option: <b>EE</b> , <b>EE-ES</b>	Oracle TimesTen Application-Tier Database Cache includes the following features:			
Database Cache	Included option: PE	<ul> <li>Data access using PL/SQL, JDBC, ODBC, ttClasses, OCI, and Pro*C/C++ interfaces</li> </ul>			
		Transaction Log API (XLA) for change notification			
		Multi-node Cache Grid			
		<ul> <li>Automatic data synchronization with the Oracle database</li> </ul>			
		<ul> <li>Transactional replication between the in-memory cache databases</li> </ul>			
		<ul> <li>Automated failure detection and database failovers</li> </ul>			
		TimesTen Extension for Oracle SQL Developer			
		TimesTen Plug-in for Oracle Enterprise Manager			

## 1.5 Oracle Management Packs and Their Permitted Features

Table 1-15 lists Oracle management packs, the Oracle Database offerings for which each pack is available, and the features that are included with each pack. The features in these packs are accessible through Oracle Enterprise Manager, Desktop Widgets, and APIs provided with Oracle Database software. You must be licensed for a management pack in order to use any of its features.



Table 1-15 Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features					
Oracle Cloud Management Pack for Oracle Database	Extra cost pack: <b>EE</b> , <b>EE-ES</b>	Features: Oracle Cloud Management Pack for Oracle Database includes the following features:					
Oracle Database Included pack BaseDB EE-H	BaseDB EE-HP, BaseDB EE-EP,	<ul> <li>Database-as-a-Service comprising self-service database provisioning on physical or virtual infrastructure</li> <li>DBaaS Rapid Start Kit allowing users to set up and configure Enterprise Manager Cloud Control 12c in under a minute.</li> <li>Pluggable Database-as-a-Service (PDBaaS) providing self-service provisioning on a pool of multitenant container databases (CDBs).</li> <li>Support shared server, shared cluster, and shared database (Schema-as-a-Service) deployment models</li> <li>Virtual assembly provisioning. For example, if there is an assembly topology of three VMs (two WebLogic Servermanaged servers and one database), you will need both packs to cover the respective tiers.</li> <li>Snap Clone, a fast, storage efficient way of cloning Oracle databases</li> <li>Full clones using RMAN backups</li> <li>Role based access and resource control through quotas and retirement policies</li> <li>Schedule- and performance-based resource management policies</li> <li>Metering and chargeback based on fixed cost, utilization metrics and configuration parameters of the database</li> <li>Programmatic access to the Self-Service Portal</li> <li>Blueprint driven orchestration of cloud operations</li> <li>Prerequisites:</li> </ul>					
		Oracle Cloud Management Pack for Oracle Database requires					
		Oracle Database Lifecycle Management Pack for Oracle Database.  Licensed Links:					
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Cloud Management Pack for Oracle Database.					
		Starting on the Enterprise Summary home page, click the <b>Enterprise</b> menu. Select:					
		<ul> <li>Cloud, then Infrastructure Home</li> <li>Cloud, then Infrastructure Request Dashboard</li> <li>Cloud, then Infrastructure Policies</li> <li>Cloud, then Middleware and Database Home</li> <li>Cloud, then Middleware and Database Request Dashboard</li> <li>Cloud, then Self Service Portal</li> <li>Cloud, then Service Instances</li> <li>Chargeback</li> <li>Provisioning and Patching, then Database Provisioning. In the Database Provisioning page, in the Related Links section of the left menu pane, click Provision Pluggable Databases. Next, from the PDB Operations section, select Create New Pluggable Databases. Click Launch, and from Pluggable Database Creation Options, select Clone an Existing PDB -&gt; Snap Clone.</li> </ul>					



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

### Management Pack Availability Included Features

Starting on the Enterprise Summary home page, click the **Setup** menu. Select:

- Cloud. Select Infrastructure
- Cloud. Select Database
- Provisioning and Patching, then Storage Registration
   On the Multitenant container database's home page, from the
   Oracle Database menu, select Provisioning, then Provision
   Pluggable Database. Next, from the PDB Operations section,
   select Create New Pluggable Databases. Click Launch, and from
   Pluggable Database Creation Options, select Clone an Existing
   PDB -> Snap Clone.

### **Licensed APIs:**

Use of the following APIs requires a license for Oracle Cloud Management Pack for Oracle Database:

- Assembly Operations Any POST/GET/PUT/DELETE on /em/ cloud/iaas URI space for Resources Assembly Template and Assembly Instance
- DBaaS Operations Any POST/GET/PUT/DELETE on /em/ cloud/dbaas URI space
- DBaaS Setup Operations Any POST/GET/PUT/DELETE on /em/websvcs/restful/extws/cloudservices/ admin/cfw/v1 URI space.

### **Licensed Command Line Interface (CLI) Verbs:**

The following Enterprise Manager Command Line Interface (CLI) verbs are licensed as part of Oracle Cloud Management Pack for Oracle Database. These verbs operate on a database pool.

- add pool members
- create\_charge\_item
- create dbaas quota
- create dbprofile
- create pool
- create service template
- delete charge item
- delete dbaas quota
- delete pool
- delete\_service\_template
- get dbaas quota
- get dbaas request settings
- get metering data
- get\_pool\_capacity\_data
- get pool capacity summary data
- get pool constraints
- get pool criteria
- get\_pool\_detail
- get pool instance data
- get pool target type
- get pools
- get service template



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
		• list_charge_item_candidates
		<ul><li>remove_pool_members</li></ul>
		<ul><li>update_dbaas_quota</li></ul>
		<ul> <li>update_dbaas_request_settings</li> </ul>
		• update_pool
		Licensed Views and Tables:
		The following objects within the repository schema are licensed under Oracle Cloud Management Pack for Oracle Database:
		Tables starting with EMCT_CBA
		<ul> <li>Views starting with EMCT\$CBA</li> </ul>
		The GP_EMCT_CBA_TARGET_CHARGE views
		<ul> <li>The MGMT\$EMCT_CBA_CHARGE_DAILY view</li> </ul>
		<ul> <li>The MGMT\$EMCT_CBA_CHARGE_HOURLY view</li> </ul>
		Licensed Chargeback Reports:
		The following BI Publisher reports are licensed under Oracle Cloud Management Pack for Oracle Database:
		Charge Trend Report
		<ul> <li>Charge Summary Report</li> </ul>
		<ul> <li>Usage Trend Report</li> </ul>
		<ul> <li>Usage Summary Report</li> </ul>
		Also, any report created using the "create-like" feature of BI publisher referring the preceding reports, falls under this license.



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
Oracle Data Masking and Subsetting Pack	Extra cost pack: EE, EE-ES Included pack: BaseDB EE, BaseDB EE-HP, BaseDB EE-EP, ExaCS/CC	Features: Oracle Data Masking and Subsetting Pack includes the following features:  Application Data Modeling Data Masking Formats Library Data Masking Definitions Data Subsetting Definitions Application Data Modeling, Data Masking and Subsetting Enterprise Manager Command Line Interface (CLI) verbs Application Data Modeling accelerator for select versions of Oracle E-Business Suite Application Data Modeling accelerator for select versions of Oracle Fusion Applications Data Masking templates for select versions of Oracle Fusion Applications Data Masking templates for select versions of Oracle Fusion Applications Data Masking templates for select versions of Oracle E-Business Suite Oracle Data Masking and Subsetting Pack includes the following restricted use licenses: Database Gateway for APPC Database Gateway for DRDA Database Gateway for NRDA Database Gateway for SQLServer Database Gateway for SQLServer Database Gateway for Teradata If you want to use the Oracle Database Gateways listed above not solely for the purposes of Oracle Data Masking and Subsetting Pack, then you must purchase full-use licenses for the Oracle Database Gateways. When using Oracle Data Masking and Subsetting Pack, then you must purchase full-use licenses for the Oracle Database Gateways stage the data in a separately licensed Oracle Database. Oracle Data Masking and Subsetting Functionality cannot be executed directly against the non-Oracle database. Oracle Data Masking and Subsetting Pack must be licensed only for the source database server, i.e., the databases from which the data originates. There is no requirement to license the pack for the staging database server on which masking and Subsetting Pack incorporates the previous Oracle Data Masking and Subsetting Pack incorporates the previous Oracle Data Masking and Subsetting Pack incorporates the previous Oracle Data Masking Pack, Oracle Test Data Management Pack, and Oracle Data Masking and Subsetting Pack for non-Oracle Data Masking Pack, Oracle Test Data Management Pack, and Orac



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
		Starting on the Enterprise Summary home page, click the <b>Enterprise</b> menu, then <b>Quality Management</b> , then select:
		<ul> <li>Application Data Modeling</li> <li>Data Masking Definitions</li> <li>Data Masking Formats</li> <li>Data Subset Definitions</li> <li>From the Oracle database or cluster database target home page, click the Security menu, then select:</li> </ul>
		<ul> <li>Application Data Modeling</li> <li>Data Masking Definitions</li> <li>Data Subsetting</li> </ul>



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

Oracle Database Lifecycle Management Pack for Oracle Database	Extra cost pack: EE, EE-ES Included pack: BaseDB EE-HP, BaseDB EE-EP, ExaCS/CC	Features: Oracle Database Lifecycle Management Pack for Oracle Database includes the following features: Change Activity Plans Client system analyzer Compliance Configuration Collection Extensibility Configuration Compare Configuration History Configuration Instance Browser Configuration Save Configuration Search Configuration Topology Copy Objects Database Patching Database Provisioning Database Upgrade Disaster Recovery via Site Guard Enterprise Data Governance File Synchronization
		<ul> <li>Notifications</li> <li>Pluggable Database (PDB) Clone</li> <li>PDB Create/Plug/Unplug (Multiple target operations or performed using a customized deployment procedure.)</li> <li>PDB Migrate</li> <li>RAC Scale Back</li> <li>RAC Scale Out</li> <li>Real-time configuration change detection</li> <li>Real-time schema change detection</li> <li>Schema and Data Comparisons</li> <li>Schema Change Plans</li> <li>Schema Comparisons</li> <li>User Defined Deployment Procedures (UDDP)</li> <li>With the purchase of Oracle Database Lifecycle Management Pactor Oracle Database, you also are entitled to the features described in the following sections. These features are restricted to the Oracle Database targets in the Oracle Database Home and the Platform (hardware and operating system) for the CPUs you have licensed.</li> <li>Application Configuration Console</li> <li>The oplan Utility (The basic OPlan feature is free for everyone)</li> </ul>
		<ul> <li>Application Configuration Console</li> <li>The oplan Utility (The basic OPlan feature is free for everyone that has an Oracle Support contract. Use of OPlan metadata that drive orchestration logic from either Enterprise Manager or custom/third-party scripts is part of Oracle Database Lifecycle Management Pack for Oracle Database.)</li> <li>Migrate to ASM</li> </ul>

**Licensed Parameters:** 

The  ${\tt init.ora}$  parameter  ${\tt ENABLE\_DDL\_LOGGING}$  is licensed as part

of Oracle Database Lifecycle Management Pack for Oracle



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

### Management Pack Availability Included Features

Database when set to <code>TRUE</code>. When set to <code>TRUE</code>, the database reports schema changes in real time into the database alert log under the message group schema\_ddl. The default setting is <code>FALSE</code>.

#### **Licensed Links:**

The Licensed Links, features, and functions listed in the following sections apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management on non-Oracle Database targets, you must purchase the appropriate management pack.

### **Licensed Links – Database Provisioning Procedures:**

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

- From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library.
   All Procedures that Clone and Provision a Database are licensed with Oracle Database Lifecycle Management Pack for Oracle Database.
- From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Database Provisioning. All features, functions, links, buttons, and drilldowns on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
- From the Oracle database or cluster database target home page, click the Oracle Database menu, then **Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

### Licensed Links - Database Upgrade:

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

- From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library.
   All Procedures that Upgrade a Database are licensed with Oracle Database Lifecycle Management Pack for Oracle Database.
- From the Oracle database or cluster database target home page, click the Oracle Database menu, then **Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

### Licensed Links – User Defined Deployment Procedures (UDDP)

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. On the Provisioning Library page, from the list of actions, the Create New option is licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

Licensed Links - RAC Scale Out and Scale Back



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

- From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library.
   All Procedures that Extend or Scale a database or RAC are licensed with Oracle Database Lifecycle Management Pack for Oracle Database.
- From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Database Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
- From the Oracle cluster database target home page, click the Oracle Database menu, then **Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

#### Licensed Links - Database Patching

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

 From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library.
 All Procedures that patch a database, Clusterware or Real Application Clusters are licensed with Oracle Database Lifecycle Management Pack for Oracle Database.

#### Licensed Links - Offline Patching

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

 From the Enterprise Manager home page, click the Setup menu, Provisioning and Patching, then Offline Patching.
 From the Online and Offline Setting tab, the Connection,
 Offline setting is licensed with Oracle Database Lifecycle Management Pack for Oracle Database.

#### Licensed Links - Configuration Instance Browser

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

- From the Enterprise Manager home page, click on Targets,
   Databases, and select a Database. From the database home
   page, click on Oracle Database, Configuration. All features,
   functions, links, buttons, and drill-downs on this menu,
   excluding Topology, are licensed as part of Oracle Database
   Lifecycle Management Pack for Oracle Database.
- If the Target Home Page is accessed directly or by other paths:
  - From the database home page, click on Oracle Database,
     Configuration. All features, functions, links, buttons, and drill-downs on this menu, excluding Topology, are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

#### Licensed Links - Configuration Search

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

 From the Enterprise Manager home page, click the Enterprise menu, then Configuration and Search. All features, functions, links, buttons, and drill-downs on this page are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

#### **Licensed Links - Configuration History**

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

 From the Enterprise Manager home page, click the Enterprise menu, then Configuration and History. All features, functions, links, buttons, and drill-downs on this page are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

#### **Licensed Links - Configuration Compare**

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

 From the Enterprise Manager home page, click the Enterprise menu, then Configuration and Compare. All features, functions, links, buttons, and drill-downs on this page are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

#### Licensed Links - Configuration Save

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

 From the Enterprise Manager home page, click the Enterprise menu, then Configuration and Save. All features, functions, links, buttons, and drill-downs on this page are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

#### **Licensed Links - Configuration Topology**

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

- From the Target Home Page, click on Oracle Database, Configuration, Topology. In the View Dropdown, Used By is licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
- From the Target Home Page, click on Oracle Database, Configuration, Topology, Customization. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
- If the Target Home Page is accessed directly or by other paths:
  - From the Target Home Page, click on Oracle Database,
     Configuration, Topology. In the View drop-down, Used



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

- By is licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
- From the Target Home Page, click on Oracle Database, Configuration, Topology, Customization. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

#### Licensed Links - Configuration Collection Extensibility

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

 From the Enterprise Manager home page, click the Enterprise menu, then Configuration and Custom. All features, functions, links, buttons, and drill-downs on this page are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

#### **Licensed Links - File Synchronization**

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

 When viewing comparison results differences as described in the Configuration Compare feature, select the configuration specification in the tree on the left. Select Enable File Synchronization. All features, functions, links, buttons, and drill-downs on this page are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

#### **Licensed Links - Schema Comparison:**

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

- From the Enterprise Manager home page, click on Targets,
   Databases, and then select a Database. From the database
   home page, click on Schema, Change Management. All
   features, functions, links, buttons, and drill-downs on this menu
   are licensed as part of Oracle Database Lifecycle Management
   Pack for Oracle Database.
- If the Target Home Page is accessed directly or by other paths:
  - From the database home page, click on Schema, Change Management. All features, unctions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

#### Licensed Links - Schema and Data Comparisons:

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

From the Enterprise Manager home page, click on Targets, Databases, and then select a Database. From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

- If the Target Home Page is accessed directly or by other paths:
  - From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

#### **Licensed Links – Schema and Data Synchronization:**

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

- From the Enterprise Manager home page, click on Targets,
   Databases, and then select a Database. From the database
   home page, click on Schema, Change Management. All
   features, functions, links, buttons, and drill-downs on this menu
   are licensed as part of Oracle Database Lifecycle Management
   Pack for Oracle Database.
- If the Target Home Page is accessed directly or by other paths:
  - From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

#### **Licensed Links - Copy Objects:**

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

- From the Enterprise Manager home page, click on Targets,
   Databases, and then select a Database. From the database
   home page, click on Schema, Change Management. All
   features, functions, links, buttons, and drill-downs on this menu
   are licensed as part of Oracle Database Lifecycle Management
   Pack for Oracle Database.
- If the Target Home Page is accessed directly or by other paths:
  - From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

#### Licensed Links - Real-Time Schema Change Detection:

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

- From the Enterprise Manager home page, click on Targets, Databases, and then select a Database. From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
- If the Target Home Page is accessed directly or by other paths:
  - From the database home page, click on **Schema**, **Change Management**. All features, functions, links, buttons, and



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

## Licensed Links – Real-time Configuration Change Detection and Compliance:

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

 From the Enterprise Manager home page, click the Enterprise menu and Compliance. All features, functions, links, buttons, and drill-downs associated with the Library, Results and Real-Time Observations pages are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

#### **Licensed Reports:**

The following reports are part of Oracle Database Lifecycle Management Pack for Oracle Database. All reports in each of these sections are licensed as part of this pack. To access the reports go to the Enterprise Manager home page, click the Reports, Information Publisher Reports or BI Publisher Enterprise Reports.

The following reporting areas, reports, and sub-reports under Information Publisher Reports are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database:

- Compliance
- Deployment and Configuration
- Sample Host reports, Configuration Reports
- Security

The following reporting areas, reports and sub-reports under BI Publisher Enterprise Reports are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database:

- Compliance
- Deployment and Configuration
- Sample Host reports, Configuration Reports
- Security

#### **Licensed Command Line Interface (CLI) Verbs:**

The following Enterprise Manager Command Line Interface (CLI) verbs are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

- associate cs targets
- clone database
- config\_compare
- config db service target
- configure log archive locations
- confirm instance
- create database
- describe instance
- describe procedure input
- disable config history
- enable config history
- export compliance group



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

- export compliance standard rule
- export facet
- export standard
- fix compliance state
- get config searches
- get config templates
- get executions
- get\_instance\_data
- get instance status
- get instances
- get oms config property
- get procedure types
- get\_procedure\_xml
- get procedures
- get retry argument
- get saved configs
- ignore\_instance
- import compliance object
- list oms config properties
- remove cs target association
- reschedule instance
- resume instance
- run config search
- save procedure
- set config history retention period
- stop instance
- submit procedure
- suspend instance
- update and retry step
- update\_procedure\_input
- upgrade\_database

#### **Licensed Repository Views - Compliance Views:**

The following compliance views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:

- MGMT\$CCC ALL OBS BUNDLES
- MGMT\$CCC ALL OBSERVATIONS
- MGMT\$CCC DIAG ANALYTICS
- MGMT\$CCC DIAG QUEUEBACKLOG
- MGMT\$COMPLIANCE STANDARD
- MGMT\$COMPLIANCE STANDARD GROUP
- MGMT\$COMPLIANCE STANDARD RULE
- MGMT\$COMPOSITE CS EVAL SUMMARY
- MGMT\$CS\_ASM\_DISKGRP\_SETTINGS
- MGMT\$CS DB CONTROL FILE COUNT
- MGMT\$CS DB INIT PARAMS



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

- MGMT\$CS DB RBS IN SYSTEM
- MGMT\$CS DB REC SEG SETTINGS
- MGMT\$CS DB REC TS SETTINGS
- MGMT\$CS DB REC USER SETTINGS
- MGMT\$CS DB REDO LOG COUNT
- MGMT\$CS DB REDO LOGS
- MGMT\$CS DB TABLESPACES
- MGMT\$CS DB TBSP SEGSPACE MGMT
- MGMT\$CS EVAL SUMMARY
- MGMT\$CS FEATURE USAGE
- MGMT\$CS GROUP EVAL SUMMARY
- MGMT\$CS GROUP KEYWORD
- MGMT\$CS HA\_INFO
- MGMT\$CS HIERARCHY
- MGMT\$CS KEYWORD
- MGMT\$CS RQS HIERARCHY
- MGMT\$CS RULE ATTRS
- MGMT\$CS RULE EVAL SUMMARY
- MGMT\$CS RULEFOLDER
- MGMT\$CS TARGET ASSOC
- MGMT\$CS TGT ASSOC TXF REQ
- MGMT\$CSG HIERARCHY
- MGMT\$CSG SUBGROUP
- MGMT\$CSR CURRENT VIOLATION
- MGMT\$CSR TARGET ASSOC
- MGMT\$CSR VIOLATION CONTEXT
- MGMT\$CSRF TARGET ASSOC
- MGMT\$EM CS RULE EVENT ERROR
- MGMT\$EM RULE VIOL CTXT DEF
- MGMT\$ICS TARGET ASSOC
- MGMT\$REPO RULE CHK DETAILS
- MGMT\$REPOSITORY RULE BIND VARS
- MGMT\$REPOSITORY RULE PARAMS
- MGMT\$RULE KEYWORD

#### Licensed Repository Views – Provisioning and Patching Views:

The following provisioning and patching views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:

- EM\$PROV APPTYPES
- EM\$PROVAPP METADATA
- EM\$PROVAPP METADATA VERSION
- EM\$PROVAPP TAG PROPERTIES
- EM\$PROVAPP TAGS
- MGMT\$PA RECOM METRIC SOURCE

#### Licensed Repository Views - Patching Views:



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

The following patching views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:

- GC\$EM PC PLAN PATCHES
- GC\$EM PC PLANS
- GC\$EM PC PLAN TARGETS
- GC PC EXECUTION INSTANCES
- GC PC PLAN ANALYSIS RS
- GC PC PLAN REMEDY
- GC PC PLAN REMEDY DETAILS
- GC PC PLAN USERS
- GC PC TARGETS
- MGMT\$APPLIED PATCHES
- MGMT\$APPLIED PATCHSETS
- MGMT\$ARU FAMILY PRODUCT MAP
- MGMT\$ARU LANGUAGES
- MGMT\$ARU PATCH RECOMMENDATIONS
- MGMT\$ARU PLATFORMS
- MGMT\$ARU PRODUCT\_RELEASE\_MAP
- MGMT\$ARU PRODUCTS
- MGMT\$ARU RELEASES
- MGMT\$ARU TARGETS
- MGMT\$PA AFFTED HOST GUID OH
- MGMT\$PA AFFTED HOST OH
- MGMT\$PA AFFTED TARGETS
- MGMT\$PA FINAL PATCH LIST
- MGMT\$PA TARGET MAPPING
- MGMT\$PR APPL PATCHES TO OH
- MGMT\$PR APPL PATCHES TO OH TGT
- MGMT\$PR HOME INFO
- MGMT\$PR HOMES AFFECTED COUNT
- MGMT\$RECOM METRIC SOURCE

#### **Licensed Repository Views - Configuration Views:**

The following configuration views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:

- GC\$ECM COMP PROPERTIES
- GC\$ECM CONFIG SUMMARY
- GC\$ECM CURR CONFIG
- GC\$ECM CURR CONFIG FLAT MEMS
- GC\$ECM CURR CONFIG SNAPSHOTS
- GC\$ECM\_CURR\_TARGET\_SNAPSHOTS
- GC\$ECM DATA RETENTION TIME
- GC\$ECM GEN SNAPSHOT
- GC\$ECM SAVED CONFIG
- GC\$ECM SAVED CONFIG FLAT MEMS



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

#### **Management Pack Availability Included Features** GC\$ECM SAVED CONFIG SNAPSHOTS GC\$ECM SAVED CONFIG TARGETS GC\$ECM SAVED TARGET SNAPSHOTS MGMT\$CCS DATA MGMT\$CCS DATA SOURCE MGMT\$CCS DATA SOURCE VISIBLE MGMT\$CCS DATA VISIBLE MGMT\$DB CONTROLFILES MGMT\$DB DATAFILES MGMT\$DB DBNINSTANCEINFO MGMT\$DB FEATUREUSAGE MGMT\$DB INIT PARAMS MGMT\$DB LICENSE MGMT\$DB OPTIONS MGMT\$DB REDOLOGS MGMT\$DB ROLLBACK SEGS MGMT\$DB SGA MGMT\$DB TABLESPACES MGMT\$DB TABLESPACES ALL MGMT\$ECM CMP JOB LAST RESULTS MGMT\$ECM CMP JOBS MGMT\$ECM CMP RPT CCS DS MGMT\$ECM CMP RPT CCS DS DTLS MGMT\$ECM CMP RPT CCS PD ALL MGMT\$ECM CMP RPT CCS PD DIFFS MGMT\$ECM CMP RPT CI DIFFS MGMT\$ECM CMP VISIBLE CONFIGS MGMT\$ECM CURRENT SNAPSHOTS MGMT\$ECM VISIBLE SNAPSHOTS MGMT\$SERVICETAG INSTANCES MGMT\$SERVICETAG REGISTRY MGMT\$UNPATCHABLE DB TARGETS Licensed Repository Views - Oracle Home Patching Views: The following Oracle home patching views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database: MGMT\$APPLIED PATCHES MGMT\$APPLIED PATCHSETS MGMT\$APPL PATCH AND PATCHSET MGMT\$CPF ADVISORY INFO MGMT\$CPF HOMES INFO MGMT\$CPF PATCH INFO MGMT\$EM HOMES PLATFORM

MGMT\$HOMES\_AFFECTED

MGMT\$OH\_CLONE\_PROPERTIES

MGMT\$OH\_COMP\_DEP\_RULE



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

- MGMT\$OH COMP INST TYPE
- MGMT\$OH COMPONENT
- MGMT\$OH CRS NODES
- MGMT\$OH DEP HOMES
- MGMT\$OH FILE
- MGMT\$OH HOME INFO
- MGMT\$OH INSTALLED TARGETS
- MGMT\$OH INV SUMMARY
- MGMT\$OH PATCH
- MGMT\$OH PATCHED COMPONENT
- MGMT\$OH PATCHED FILE
- MGMT\$OH PATCH FIXED BUG
- MGMT\$OH PATCHSET
- MGMT\$OH VERSIONED PATCHV
- MGMT\$PATCH ADVISORIES

#### **Licensed Repository Views - Security Views:**

The following security views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:

- MGMT\$ESA ALL PRIVS REPORT
- MGMT\$ESA ANY DICT REPORT
- MGMT\$ESA ANY PRIV REPORT
- MGMT\$ESA AUDIT SYSTEM REPORT
- MGMT\$ESA BECOME USER REPORT
- MGMT\$ESA CATALOG REPORT
- MGMT\$ESA CONN PRIV REPORT
- MGMT\$ESA CREATE PRIV REPORT
- MGMT\$ESA DBA GROUP REPORT
- MGMT\$ESA DBA ROLE REPORT
- MGMT\$ESA\_DIRECT\_PRIV\_REPORT
- MGMT\$ESA\_EXMPT\_ACCESS\_REPORT
- MGMT\$ESA KEY OBJECTS REPORT
- MGMT\$ESA\_OH\_OWNERSHIP\_REPORT
- MGMT\$ESA\_OH\_PERMISSION\_REPORT
- MGMT\$ESA POWER PRIV REPORT
- MGMT\$ESA PUB PRIV REPORT
- MGMT\$ESA\_SYS\_PUB PKG REPORT
- MGMT\$ESA TABSP OWNERS REPORT
- MGMT\$ESA TRC AUD PERM REPORT
- MGMT\$ESA WITH ADMIN REPORT
- MGMT\$ESA WITH GRANT REPORT

#### **Licensed Repository Views - Client Configuration Views:**

The following client configuration views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:

• MGMT\$CSA COLLECTIONS



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
		• MGMT\$CSA_FAILED
		<ul> <li>MGMT\$CSA_HOST_COOKIES</li> </ul>
		• MGMT\$CSA_HOST_CPUS
		• MGMT\$CSA_HOST_CUSTOM
		• MGMT\$CSA_HOST_IOCARDS
		• MGMT\$CSA_HOST_NICS
		• MGMT\$CSA_HOST_OS_COMPONENTS
		• MGMT\$CSA_HOST_OS_FILESYSEMS
		• MGMT\$CSA_HOST_OS_PROPERTIES
		• MGMT\$CSA_HOST_RULES
		• MGMT\$CSA_HOST_SW
		• MGMT\$ECM_CONFIG_HISTORY



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
Dracle Diagnostics Pack	Extra cost pack: EE, EE-ES Included pack: BaseDB EE, BaseDB EE-HP, BaseDB EE-EP, ExaCS/CC	Features: Oracle Diagnostics Pack includes the following features: Performance monitoring and diagnostics (database and host) Automatic Workload Repository (AWR) AWR Warehouse Automatic Database Diagnostic Monitor (ADDM) Compare Period ADDM Real Time ADDM Active Session History (ASH) ASH analytics Performance Hub Top Activity Lite Exadata Cell Grid Administration Exadata Cell Grid Performance Exadata Cell Grid Performance Exadata Cell Group Health Overview page Exadata Resource Utilization Blackouts Notifications Metric and Alert/Event history User-Defined Metrics and Metric Extensions Management Connectors Dynamic metric baselines and Adaptive metric thresholds Monitoring templates and Template Collections Replay Compare Period Report Supporting functionality to perform per stream bottleneck detection and per component top wait event analysis In order to use the features listed above, you must purchase licenses for Oracle Diagnostics Pack. A new initialization paramete CONTROL_MANAGEMENT_PACK_ACCESS, controls access to Oracle Diagnostics Pack and Oracle Tuning Pack functionally is enabled in the database server.  DIAGNOSTIC: Only Oracle Diagnostics Pack functionality is enabled in the server.  NONE: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server. Any and all methods of accessing Oracle Diagnostics Pack functionality, whether through Enterprise Manager Console, Deskt Widgets, command-line APIs, or direct access to the underlying data, requires an Oracle Diagnostics Pack license. Licensed Links: To determine which links in Enterprise Manager are part of Oracle Diagnostics Pack, click the Setup link on the top right-hand part of the Enterprise Manager Home page.  When you click the Setup link, the navigation bar contains the Management Pack Access page,

management packs.



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

- For Enterprise Manager Database Control, click the Remove Access radio button for the Diagnostics Pack and click Apply.
- For Enterprise Manager Cloud Control, click the appropriate check box for the Diagnostics Pack and click Apply.

This procedure disables all the links and tabs associated with Oracle Diagnostics Pack in Enterprise Manager. All the disabled links and tabs are part of Oracle Diagnostics Pack and therefore require a pack license.

#### **Licensed Command-Line APIs:**

Oracle Diagnostics Pack features can also be accessed by way of database server APIs and command-line interfaces:

- The DBMS\_ADDM, DBMS\_PERF, DBMS\_UMF, and
   DBMS\_WORKLOAD\_REPOSITORY packages are part of this pack.
- The DBMS\_ADVISOR package is part of this pack if you specify ADDM as the value of the advisor\_name parameter, or if you specify for the value of the task\_name parameter any value starting with the ADDM prefix.
- The DBMS\_WORKLOAD\_REPLAY.COMPARE\_PERIOD\_REPORT function is part of this pack.
- The V\$ACTIVE\_SESSION\_HISTORY dynamic performance view and its underlying table, X\$ASH, are part of this pack.
- The DBA\_STREAMS\_TP\_PATH\_BOTTLENECK view is part of this
  pack.
- All views beginning with DBA ADDM are part of this pack.
- Some data in DBA\_STREAMS\_TP\_COMPONENT\_STAT requires
  Oracle Diagnostics Pack. The following filter clause to any
  query on DBA\_STREAMS\_TP\_COMPONENT\_STAT shows
  Diagnostics-Pack-dependent data:

```
where STATISTIC_UNIT = 'PERCENT'
```

For example, the following query shows Diagnostics-Pack-dependent data only:

```
SELECT * FROM DBA_STREAMS_TP_COMPONENT_STAT
where STATISTIC UNIT = 'PERCENT';
```

- All data dictionary views beginning with the prefix DBA\_HIST\_ are part of this pack, along with their underlying tables. The only exception are the views: DBA\_HIST\_SNAPSHOT, DBA\_HIST\_DATABASE\_INSTANCE, DBA\_HIST\_SNAP\_ERROR, DBA\_HIST\_SEG\_STAT, DBA\_HIST\_SEG\_STAT\_OBJ, and DBA\_HIST\_UNDOSTAT. They can be used without the Oracle Diagnostics Pack license.
- All data dictionary views with the prefix DBA\_ADVISOR\_ are part
  of this pack if queries to these views return rows with the value
  ADDM in the ADVISOR\_NAME column or a value of ADDM\* in the
  TASK\_NAME column or the corresponding TASK\_ID.
- The following reports found in the /rdbms/admin/ directory of the Oracle home directory are part of this pack: awrrpt.sql, awrrpti.sql, awrqrpt.sql, awrqrpti.sql, awrqdrpt.sql,



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

awrgdrpi.sql, addmrpt.sql, addmrpti.sql, ashrpt.sql, ashrpti.sql, awrddrpt.sql, awrddrpi.sql, awrsqrpi.sql, awrsqrpt.sql, awrextr.sql, awrload.sql, awrinfo.sql, spawrio.sql, and spawrrac.sql.

#### **Licensed Repository Views - Monitoring Views:**

The following monitoring views are licensed under Oracle Diagnostics Pack:

- MGMT\$ALERT ANNOTATIONS
- MGMT\$ALERT CURRENT
- MGMT\$ALERT HISTORY
- MGMT\$ALERT NOTIF LOG
- MGMT\$AVAILABILITY CURRENT
- MGMT\$AVAILABILITY HISTORY
- MGMT\$BLACKOUT HISTORY
- MGMT\$BLACKOUTS
- MGMT\$METRIC COLLECTIONS
- MGMT\$ALERT\_CURRENT
- MGMT\$METRIC DAILY
- MGMT\$METRIC DETAILS
- MGMT\$METRIC HOURLY
- MGMT\$TARGET METRIC COLLECTIONS
- MGMT\$TARGET METRIC SETTINGS

#### Licensed Repository Views - Template Views:

The following template views are licensed under Oracle Diagnostics Pack:

- MGMT\$TEMPLATES
- MGMT\$TEMPLATE METRIC COLLECTION
- MGMT\$TEMPLATE METRIC SETTINGS
- MGMT\$TEMPLATE POLICY SETTINGS

#### **Additional Licensing Information:**

- The use of Top Activity Lite in Enterprise Manager requires an Oracle Diagnostics Pack license.
- The use of Top Activity Lite in OCI Database Management Service requires both an Oracle Diagnostics Pack license and an OCI Database Management Service subscription – Full Management.



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
Oracle Tuning Pack	Extra cost pack: EE, EE-ES Included pack: BaseDB EE, BaseDB EE-HP, BaseDB EE-EP, ExaCS/CC	Features: Oracle Tuning Pack includes the following features: SQL Access Advisor SQL Tuning Advisor Oracle Database In-Memory Advisor Automatic SQL Tuning SQL Profiles Real-time SQL and PL/SQL Monitoring Reorganize objects A new initialization parameter, CONTROL MANAGEMENT PACK ACCESS, is introduced to control access to Oracle Diagnostics Pack and Oracle Tuning Pack in the database server. This parameter can be set to one of three values: DIAGNOSTIC+TUNING: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is enabled in the database server. DIAGNOSTIC: Only Oracle Diagnostics Pack functionality is enabled in the server. NONE: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server. NONE: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server. Any and all methods of accessing Oracle Tuning Pack functionality, whether through Enterprise Manager Console, Desktop Widgets, command-line APIs, or direct access to the underlying data, requires an Oracle Tuning Pack license.  Prerequisites: Oracle Tuning Pack requires Oracle Diagnostics Pack.  Licensed Links: To determine which links in Enterprise Manager are part of Oracle Tuning Pack, click the Setup link on the top right-hand part of the Enterprise Manager Home page.  When you click the Setup link, the navigation bar contains the Management Pack Access link. Click this link. This will take you to the Management Pack Access page, which allows you to grant and remove access from all the management packs.  For Enterprise Manager Database Control, click the Remove Access radio button for the Tuning Pack and click

- Apply.
- For Enterprise Manager Cloud Control, click the appropriate check box for the Tuning Pack and click Apply.

This procedure disables all the links and tabs associated with Oracle Tuning Pack in Enterprise Manager. All the disabled links and tabs are part of Oracle Tuning Pack and therefore require a pack

#### **Licensed Command Line APIs:**

Oracle Tuning Pack features can also be accessed by way of database server APIs and command-line interfaces:

- DBMS ADVISOR, when the value of the advisor name parameter is either SQL Tuning Advisor or SQL Access Advisor.
- DBMS AUTO SQLTUNE



Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
Management Pack	Availability	Included Features  DBMS_PERF DBMS_SQL_MONITOR DBMS_SQLTUNE (See Note) V\$SQL_MONITOR V\$SQL_MONITOR The following report found in the /rdbms/admin/ directory of the Oracle home directory is part of this pack: sqltrpt.sql.  Note: If you are licensed for the on-premises Oracle Database Enterprise Edition, then you can use certain subprograms of the
		DBMS_SQLTUNE package even if you do not have an Oracle Tuning Pack license. See the SQL Tuning Sets entry in Table 1-6 for more information.

# 1.6 Checking for Feature, Option, and Management Pack Usage

Oracle provides the script options\_packs\_usage\_statistics.sql, which enables you to check feature usage, Oracle Database option usage, and Oracle management pack usage on your database. This script lists, in two distinct sections:

- Oracle Database option and Oracle management pack usage
- Features used by each option and management pack

You can obtain the script from My Oracle Support as follows:

1. Use a Web browser to view the My Oracle Support Web site:

https://support.oracle.com

2. Log in to My Oracle Support.

If you are not a My Oracle Support registered user, then click **Register** and follow the registration instructions.

3. Search for Document ID 1317265.1, or access it directly with the following URL:

https://support.oracle.com/rs?type=doc&id=1317265.1

You can manually run the script on an individual database or use Oracle Enterprise Manager Job System to automatically run the script on multiple databases. Refer to *Oracle Enterprise Manager Cloud Control Administrator's Guide* for information on Oracle Enterprise Manager Job System.



#### Note:

The information obtained from this script will provide you an overview of the licensable Oracle Database options and Oracle management packs that were identified as used by your organization. This is to be used for informational purposes only and this does not represent your license entitlement or requirement. Please contact the License Management Services representative at http://

 ${\tt www.oracle.com/us/corporate/license-management-services/index.html} \ to \\ understand your license requirements.$ 

# 1.7 Special License Rights

Table 1-16 Special License Rights

Feature / Option	Licensing Information	
Data Guard Far Sync	The far sync instance can be installed and used on a server different from the server where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the server running the far sync instance.	
Enterprise User Security	If you wish to use Enterprise User Security in Oracle Database Enterprise Edition, you no longer need to license the Oracle Advanced Security option for Kerberos and PKI based authentication. It does require a corresponding Oracle Identity Management Directory Services Plus to be licensed. Any Oracle Advanced Security licenses purchased on or before January 31, 2004, have restricted use of the Oracle Internet Directory (OID) component of Oracle Directory Services Plus to support Enterprise User Security.	
Global Data Services	The GSM listener can be installed and used on a server different from the server where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the server running the GSM listener.	
Infrastructure repository databases	A separate single instance Oracle Database can be installed and used as an infrastructure repository for RMAN, Oracle Enterprise Manager Cloud Control, Automatic Workload Repository (AWR) Warehouse, Global Data Services Catalog, Sharding Catalog, and Grid Infrastructure Management Repository without additional license requirements, provided that all the targets are correctly licensed. It may not be used or deployed for other uses.	
	The infrastructure repositories for RMAN, Oracle Enterprise Manager Cloud Control, AWR Warehouse, Global Data Services Catalog, and Sharding Catalog can be shared in one database, or deployed in separate databases. Enterprise Edition must be used for the infrastructure repository database(s).	
	If Oracle RAC is used for the infrastructure database, then Oracle RAC licenses for all servers, and Enterprise Edition licenses for all but the first server, are required.	
	If Data Guard is used for the infrastructure database for RMAN, Oracle Enterprise Manager Cloud Control, AWR Warehouse, Global Data Services, and Grid infrastructure management Repository, then an Enterprise Edition license for the standby server is required. The Infrastructure Database for the Sharding Catalog can be protected with Data Guard without a second Enterprise Edition license.	



Table 1-16 (Cont.) Special License Rights

Feature / Option	Licensing Information	
Oracle ASM Cluster File System (Oracle ACFS)	<ul> <li>When used with non-Oracle Database files, all Oracle ACFS features are free.</li> <li>When used with Oracle Database files, all Oracle ACFS features are free, with the following exceptions:</li> <li>ACFS Auditing - Not available (use Oracle Audit Vault*)</li> <li>ACFS Compression - Not available (use Oracle Advanced Compression*)</li> <li>ACFS Encryption - Not available (use Oracle Transparent Data Encryption (TDE), part of the Oracle Advanced Security option*)</li> <li>ACFS Security - Not available (use Oracle Database Vault*)</li> <li>* Requires appropriate full-use licenses to these products or components.</li> <li>Oracle will provide support services for Oracle ACFS only if the server it operates on also operates an Oracle product, which may include Oracle Linux or Oracle Solaris, which is under an Oracle support contract.</li> </ul>	
Oracle Automatic Storage Management (Oracle ASM)	Oracle ASM is free to use with all Oracle databases and Oracle ACFS file systems.	
Oracle Clusterware	Oracle Clusterware provides cluster membership and high availability monitoring and failover. Oracle Clusterware may be used to protect any application (restarting or failing over the application in the event of a failure) on any server, free of charge. Oracle will provide support for Clusterware only if the server is running an Oracle product that is under a valid Oracle support contract. Examples of such products include, but are not limited to, Oracle Linux, Oracle Solaris, Oracle Database, and Oracle Fusion Middleware.	
Oracle Connection Manager	Oracle Connection Manager can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Connection Manager.	
Oracle Data Guard broker	You can install the broker command line interface DGMGRL and run the observer software on computer systems that are separate from the Oracle Data Guard primary and standby systems. It is not necessary to obtain a separate license for a system hosting the observer.	
Oracle Database Backup Cloud Service	Oracle Database Backup Cloud Service includes use of the following two features from the Oracle Advanced Security option or the Oracle Advanced Compression option at no additional cost:  RMAN backup encryption  All RMAN backup compression algorithms  To use additional features of the Oracle Advanced Security option or the Oracle Advanced Compression option, you must license those options separately. In addition, the Oracle Advanced Security option must be separately licensed when performing RMAN encrypted backups directly to disk.	
Oracle Database Gateway for ODBC	Oracle Database Gateway for ODBC can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Gateway for ODBC.	
Oracle Database Provider for DRDA	Oracle Database Provider for DRDA can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Database Provider for DRDA.	



Table 1-16 (Cont.) Special License Rights

Feature / Option	Licensing Information	
Oracle Database Vault	When Oracle Database Vault is configured and enabled, it configures and enables Oracle Label Security. Oracle Label Security is solely restricted for use by the Oracle Database Vault software. If you want to create Oracle Label Security policies, then you must purchase a full-use license for Oracle Label Security.	
Oracle Real Application Clusters (RAC) and Real Application Clusters One Node	The following licensing information applies when using Oracle Real Application Clusters or Real Application Clusters One Node in a clustered server environment with Oracle Database Standard Edition 2:	
	<ul> <li>You must use Oracle Clusterware. Third-party clusterware management solutions are not supported.</li> <li>Oracle Automatic Storage Management (Oracle ASM) or Oracle ASM Cluster File System (Oracle ACFS) is required for creating and managing all Oracle database file types. Raw volumes, partitions, or third-party cluster file systems are not supported for storing Oracle database files with Oracle Database Standard Edition 2, and Oracle RAC or RAC One Node. Refer to Oracle Automatic Storage Management Administrator's Guide for a comprehensive list of all database file types.</li> <li>Oracle ACFS or a local OS file system must be used to store all non-database files. No Oracle-maintained copies of any non-database files can exist in any other locations, with the following exceptions:</li> </ul>	
	<ul> <li>Customers who want to manually script maintenance of a standby database can create a second copy of their archive logs outside of Oracle ASM on a local file system only, designated by the LOG_ARCHIVE_DEST_n parameter.</li> <li>RMAN backups of files can reside on either a local or network mounted file system.</li> <li>No other cluster software can be installed on the system, including OCFS, OCFS2, third-party clusterware, third-party cluster volume managers, and third-party cluster file systems.</li> </ul>	



Table 1-16 (Cont.) Special License Rights

#### Feature / Option

#### **Licensing Information**

#### **Oracle Real Application Testing**

The full functionality of Oracle Real Application Testing is available only on Oracle Database 11g Release 1 or higher. Partial functionality of Oracle Real Application Testing is available to customers wishing to upgrade from Oracle9*i* Database Release 2 or Oracle Database 10g.

The functionality available on Oracle9*i* Database Release 2 is as follows:

 Database Replay: Only the Workload Capture feature is supported, and the captured workload may only be replayed only on Oracle Database 11g. This feature can be used only to facilitate upgrades from Oracle 9i Database Release 2 to Oracle Database 11g or higher.

The functionality available on Oracle Database 10g Release 2 is as follows:

- Database Replay: Only the Workload Capture feature is supported, and the captured workload may be replayed only on Oracle Database 11g. This feature can be used only to facilitate upgrades from Oracle Database 10g Release 2 to Oracle Database 11g.
- SQL Performance Analyzer: Only the Remote SQL Test Execute and SQL Capture into SQL Tuning Set features are supported. These features can be used only to facilitate upgrades from Oracle9i Database Release 2 and Oracle Database 10g Release 1 to Oracle Database 10g Release 2 or higher. When upgrading to Oracle Database 10g Release 2 from earlier releases (Oracle 9i Database or Oracle Database 10g Release 1), Oracle Database 11g is needed to remotely execute SQL on the target database (that is, Oracle Database 10g Release 2). Oracle Real Application Testing licensing is required for both systems, Oracle Database 10g Release 2 and Oracle Database 11g.

Oracle Secure Backup Oracle Secure Backup Cloud Module For backup of Oracle Database Enterprise Edition, Oracle Secure Backup includes restricted use licenses for:

- RMAN backup encryption to tape or Amazon S3
- RMAN backup compression leveraging LOW, MEDIUM, BASIC or HIGH algorithms

The Oracle Secure Backup special-use licenses apply to RMAN backup encryption, which is a component of the Oracle Advanced Security option, and RMAN backup compression levels, which are components of the Oracle Advanced Compression option. To use additional features of the Oracle Advanced Security option or the Oracle Advanced Compression option, you must license those options separately. In addition, the Oracle Advanced Security option must be licensed when performing RMAN encrypted backups directly to disk whether or not Oracle Secure Backup is the media manager.

# Oracle Secure Backup Cloud Module on ZDLRA

Oracle Secure Backup Cloud Module can be used free of charge on Oracle Zero Data Loss Recovery Appliance (ZDLRA) for the sole purpose of backing up data to and restoring data from S3-compatible storage devices that are in the same campus as ZDLRA.

This special use license does not allow you to move such data to or from Non-Oracle Public Cloud Environments, either directly or through gateway devices.

You are allowed to move such data to and from Oracle databases that do not have ZDLRA, however, Oracle Secure Backup Cloud Module must be licensed on those Oracle databases. For example, if you use Oracle Secure Backup Cloud Module free of charge on ZDLRA to back up data to an S3-compatible storage device, you can then use Oracle Secure Backup Cloud Module to restore that data to an Oracle database without ZDLRA, but only if Oracle Secure Backup Cloud Module is licensed on that Oracle database.

To move data to or from the Oracle Cloud Infrastructure, the ZDLRA provides an integration with the OCI Backup Cloud Module which does not require a license.

Table 1-16 (Cont.) Special License Rights

Feature / Option	Licensing Information	
Oracle Secure Backup Express	Oracle Secure Backup Express is bundled with the Oracle Database. Support for Oracle Secure Backup Express is provided exclusively through a free Oracle Discussion Forum monitored by Oracle employees as well as community experts.	
	Oracle Secure Backup Express can back up an Oracle database as well as Oracle home files and other file system data requiring tape protection.	
	For more information, refer to Oracle Secure Backup Licensing Information.	
Oracle Spatial and Graph	These Oracle Spatial and Graph components can be installed and used on a server different from the server where the Oracle Database is installed and used without a separate license:	
	Spatial Geocoder	
	Spatial Routing engine	
	Spatial Web Services	
	Property Graph client	
	<ul> <li>In-memory analyst (PGX)</li> </ul>	
	Spatial Visualization component	
	Spatial Studio	
	For more information, see Oracle Spatial and Graph Developer's Guide and Oracle Spatial and Graph Property Graph Developer's Guide.	
Oracle Wallet	An Oracle Wallet is a PKCS#12 container used to store authentication and encryption keys. The Oracle database secure external password store feature stores passwords in an Oracle Wallet for password-based authentication to the Oracle database. The Oracle Wallet may also be used to store credentials for PKI authentication to the Oracle Database, configuration of network encryption (SSL/TLS), and Oracle Advanced Security transparent data encryption (TDE) master encryption keys. Network encryption (native network encryption, network data integrity, and SSL/TLS) and strong authentication services (Kerberos, PKI, and RADIUS) are no longer part of Oracle Advanced Security and are available in all licensed editions of all supported releases of Oracle Database.	
Shard Director	The shard directors can be installed and used on a server different from the server where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the server running the shard directors.	
XStream	XStream provides application programming interfaces (APIs) that enable client applications to receive real-time data changes from an Oracle database (using XStream Out APIs) and to send real-time data changes to an Oracle database (using XStream In APIs). These data changes can be shared between Oracle databases and other systems, such as filesystems and non-Oracle databases. XStream is licensed via the Oracle GoldenGate product. You must purchase a license for this product before using the XStream APIs. Please contact your Oracle sales representative for additional information.	



# 1.8 Restricted Use Licenses

Table 1-17 Restricted Use Licenses

Feature / Option	Licensing Information
Oracle Advanced Compression Oracle Advanced Security	Restricted use licenses for Oracle Advanced Compression and Oracle Advanced Security are granted when performing either of the following migrations:  Oracle Zero Downtime Migration  Oracle Cloud Infrastructure Database Migration (DMS)  These restricted use licenses are in effect only while the migration is being performed and apply solely for the purposes of the migration operation. All other uses of Oracle Advanced Compression and Oracle Advanced Security require a license.
Oracle Advanced Security	Any Oracle Advanced Security licenses purchased on or before January 31, 2004, have restricted use of the Oracle Internet Directory (OID) component of Oracle Directory Services Plus to support Enterprise User Security.  Oracle Advanced Security includes a restricted use license for the following Oracle Enterprise Manager features:  Application Data Models (previously called Data Discovery and Modeling)  Sensitive Column Types and Sensitive Data Discovery  Application Accelerators  If you want to use the Oracle Enterprise Manager features listed above not solely for the purposes of Oracle Advanced Security, then you must purchase a
Oracle Application Server Containers for J2EE	full-use license for Oracle Data Masking and Subsetting Pack.  A restricted use license for Oracle Application Server Containers for J2EE (OC4J) is included with all editions (except for Oracle Database Express Edition). This embedded version is provided solely to support Oracle Enterprise Manager (Database and Cloud Control), Advanced Queuing Servlet, Ultra Search, and Application Express, and may not be used or deployed for other purposes
Oracle Applications Unlimited	An Oracle Base Database Service Enterprise Edition (BaseDB EE) instance being used to support an Oracle Cloud deployment of an Oracle Applications Unlimited application has restricted use of the following options: Oracle On-Line Analytical Processing (OLAP) and Oracle Partitioning. These options may be used only to support Oracle Applications Unlimited and may not be used or deployed for any other purpose.
Oracle Big Data SQL	Oracle Big Data SQL includes a Query Server that is used to query data sources including HDFS, Kafka, and NoSQL stores. Oracle Big Data SQL includes a restricted use license of Oracle Database for storing metadata (i.e. external tables and views) maintained by the Query Server. No other objects may be created in this Oracle Database.



Table 1-17 (Cont.) Restricted Use Licenses

Feature / Option	Licensing Information
Oracle Database Mobile Server	Oracle Database Mobile Server is a powerful tool for controlling networks of mobile or embedded devices from a centralized management console. It provides a secure, scalable method for connecting applications running locally on mobile or embedded devices to an Oracle enterprise backend. The synchronization system is robust and fault tolerant. It is able to successfully synchronize over unreliable or intermittently available networks. Oracle Database Mobile Server provides management for applications, users, and devices. It runs on a variety of application server platforms, including Oracle WebLogic, Oracle Glassfish, and Apache TomEE.
	On the client device side, it is designed to work with Oracle Berkeley DB as a data store, providing efficient, reliable, and secure data management running locally on mobile and embedded devices. It is also compatible with SQLite, a widely used open source data store. Database Mobile Server supports many popular device platforms including Oracle Java, Linux, Windows (laptop as well as mobile/CE), and Android.
Oracle Database Vault	Oracle Database Vault includes a restricted use license for the following Oracle Enterprise Management features:
	<ul> <li>Application Data Modeling (previously called Data Discovery and Modeling)</li> <li>Application Data Modeling accelerator for select versions of Oracle E-Business Suite</li> <li>Application Data Modeling accelerator for select versions of Oracle Fusion</li> </ul>
	Applications
Oracle HTTP Server	A restricted use license for Oracle HTTP Server is included with all editions (except for Oracle Database Express Edition) when the HTTP Server is running on the same server as the database. Running Oracle HTTP server on a different server requires that other server be licensed to use the HTTP server, either through an Oracle Database license or an Oracle Application Server license
Oracle Internet Directory Oracle Unified Directory	A restricted use license for Oracle Identity Management Directory Services Plus components Oracle Internet Directory (OID)/Oracle Unified Directory (OUD) is included with all editions (except for Oracle Database Express Edition) if users use the Directory Naming feature to configure Oracle Net Services. OID/OUD may not be used or deployed for other uses.
Oracle Label Security	Oracle Label Security includes a restricted use license for the following Oracle Enterprise Manager features:
	<ul> <li>Application Data Models (previously called Data Discovery and Modeling)</li> <li>Sensitive Column Types and Sensitive Data Discovery</li> <li>Application Accelerators</li> <li>If you want to use the Oracle Enterprise Manager features listed above not solely for the purposes of Oracle Label Security, then you must purchase a full-use license for Oracle Data Masking and Subsetting Pack.</li> </ul>
Oracle Multitenant	A restricted use license is included with all Oracle Database offerings that permits you to use the container database architecture in single-tenant mode without the Oracle Multitenant option license. Single-tenant mode is defined as one user-created pluggable database, and, optionally, one user-created application root, and one user-created proxy pluggable database.



Table 1-17 (Cont.) Restricted Use Licenses

Feature / Option	Licensing Information	
Oracle Programmer	Oracle Programmer provides application programmers with a programmatic interface to any edition of Oracle Database. However, in order to user Oracle Programmer, you must purchase a separate Oracle Programmer license.	
	Oracle Programmer includes the following products:	
	<ul> <li>Embedded SQL-style interfaces: Pro*C/C++, Pro*COBOL, Pro*Fortran, SQL*Module for Ada, SQLJ</li> </ul>	
	<ul> <li>Utilities to generate host-language bindings from database schemas:</li> <li>Object Type Translator and JPub</li> </ul>	
Oracle Real Application Testing	Restricted use licenses of Load Testing Accelerator for Oracle Database, Oracle Load Testing, and Oracle Load Testing Controller are included with Oracle Real Application Testing for use for Oracle Database testing and may not be used for application testing.	
Oracle Secure Backup Express	Oracle Secure Backup Express is a centralized tape backup management solution that provides data protection for single-server Oracle Database environments. A restricted use license for Oracle Secure Backup Express is included with all Oracle Database editions. Oracle Secure Backup Express is limited to a single host with one direct-attached tape drive and has some restrictions on advanced feature usage. Refer to the <i>Oracle Secure Backup Licensing Information</i> for additional information.	
Oracle Sharding	Oracle Sharding includes a restricted use license for Global Data Services.	
	If you want to use Global Data Services not solely for the purposes of Oracle Sharding, then you must be licensed for the Oracle Active Data Guard option.	
Oracle Spatial and Graph	Restricted use of Oracle Partitioning is allowed on all offerings, free of charge, for the sole purpose of supporting the following Spatial, Property Graph, and RDF Graph Technologies (RDF/OWL) features: spatial topology, property graph schema, and RDF Semantic Graph. All other uses of Oracle Partitioning require a license for the Oracle Partitioning option, where available.	
Real Application Security	Restricted use of Real Application Security (RAS) is allowed on Oracle Database Standard Edition 2 (SE2) and Oracle Base Database Service Standard Edition (BaseDB SE), free of charge, for the sole purpose of using the subprograms in the DBMS_NETWORK_ACL_ADMIN package.	
Recovery Manager (RMAN)	Restricted use of Oracle Partitioning is allowed on all offerings, free of charge, for the sole purpose of supporting the RMAN recovery catalog. All other uses of Oracle Partitioning require a license for the Oracle Partitioning option, where available.	
Unified Audit	Restricted use of Oracle Partitioning is allowed on all offerings, free of charge, for the sole purpose of storing the unified audit trail. All other uses of Oracle Partitioning require a license for the Oracle Partitioning option, where available.	



2

# Third-Party Notices and/or Licenses

### 2.1 Commercial Software

Commercial software products or components distributed in Oracle Database 18c are identified in the following table along with the applicable licensing information.

Table 2-1 Commercial Software

Provider	Component(s)	Licensing Information
DataDirect	DataDirect Technology	The DataDirect component provided with this Oracle Program is distributed only for use with Oracle Program.
Frederico Caldiera Knabben (FredCK.com)	CKEditor 4.5.11	© 2003 - 2010 CKSource - Frederico Knabben. All rights reserved. This product is licensed under the Apache 2.0 license. See The Apache Software License, Version 2.0.
MapInfo Corp.	Projections Code 1.0	Portions of this software Copyright 1992-2000, MapInfo Corporation, ALL RIGHTS RESERVED.
Microsoft	Microsoft Visual Studio 2013 Redistributables	Must include Oracle copyright notice in Oracle applications containing the Distributable Code. Oracle must not use Microsoft's trademarks in Oracle program names or in a way that suggests Oracle programs come from or are endorsed by Microsoft.
Microsoft	Microsoft Visual Studio 2015 Redistributables	Must include Oracle copyright notice in Oracle applications containing the Distributable Code. Oracle must not use Microsoft's trademarks in Oracle program names or in a way that suggests Oracle programs come from or are endorsed by Microsoft.
RSA	Micro Edition Suite (MES)	This product includes code licensed from RSA Data Security. See Figure 2-1.
Sibental, Inc.	AnyChart 6.0 AnyGantt 4.3 AnyMap 6.0	AnyChart  Flash chart support in Oracle Application Express is based on the Anychart Flash Chart Component. Anychart is a flexible Macromedia Flash-based solution that enables developers to create animated, compact, interactive flash charts. Flash charts are rendered by a browser and require Flash player 8 or later. Flash charts used in interactive reports require Flash Player 9 or later. For more information about Anychart, go to:  http://www.anychart.com  Any attempt to unbundle the AnyChart Flash Chart Component from an Oracle product, or to use the AnyChart Flash Chart Component outside of the Oracle product will be in violation of this license and will result in the immediate termination of this license.



Figure 2-1 RSA Secure Logo



# 2.2 Open Source or Other Separately Licensed Software

Required notices for open source or other separately licensed software products or components distributed in Oracle Database 18c are identified in the following table along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party software.

Table 2-2 Open Source or Other Separately Licensed Software

Provider	Component(s)	Licensing Information
ANTLR	Antlr 3.1.3, 3.2	ANTLR 3 License
		[The BSD License]
		Copyright (c) 2003-2007, Terence Parr
		All rights reserved.
		Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
		<ul> <li>Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> </ul>
		<ul> <li>Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.</li> </ul>
		<ul> <li>Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</li> </ul>
		THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
		GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Table 2-2 (Cont.) Open Source or Other Separately Licensed Software

Provider	Component(s)	Licensing Information
Adam Shaw	FullCalendar 2.9.1	Copyright (c) 2013 Adam Shaw
		Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
		The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
		THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Alexander Potochkin	JXLayer 4.0	Copyright (c) 2006-2009, Alexander Potochkin All rights reserved.
		Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
		<ul> <li>Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> </ul>
		<ul> <li>Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.</li> </ul>
		<ul> <li>Neither the name of the JXLayer project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</li> </ul>
		THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Alexis Sellier	Less.js 1.7	This product is licensed under the Apache 2.0 license. See The Apache Software License, Version 2.0.



Table 2-2 (Cont.) Open Source or Other Separately Licensed Software

Provider	Component(s)	Licensing Information
Apache	Apache Commons	Copyright 2003-2007 The Apache Software Foundation
	Logging 1.0.4, 1.1	This product includes software developed by
		The Apache Software Foundation (http://www.apache.org/).
		This product is licensed under the Apache 2.0 license. See The Apache Software License, Version 2.0.
Apache	Apache Commons Math 3.6.1	For a copy of the license, see Apache Commons Math 3.6.1 License.
Apache	Apache Geronimo JMS 1.1 Specification 1.0, 1.1	This product is licensed under the Apache 2.0 license. See The Apache Software License, Version 2.0.
Apache	Apache POI 3.10.1	Apache POI
		Copyright 2009 The Apache Software Foundation
		This product includes software developed by
		The Apache Software Foundation (http://www.apache.org/).
		This product contains the DOM4J library (http://www.dom4j.org).
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```
cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \
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```

The patch is available here:

https://bugzilla.mozilla.org/attachment.cgi?id=288467

which is attached to this bug:

https://bugzilla.mozilla.org/show bug.cgi?id=367627

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

org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java

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

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# A.4 Apache Tomcat 8.5.32 License

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The original XML Schemas for Java EE Deployment Descriptors:

- javaee 5.xsd
- javaee web services 1 2.xsd
- javaee web services client 1 2.xsd
- javaee 6.xsd
- 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
- javaee web services client 1 4.xsd
- jsp 2 3.xsd
- web-app 3 1.xsd
- web-common 3 1.xsd
- web-fragment 3 1.xsd

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```
• javaee 5.xsd
```

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- javaee web services client 1 2.xsd
- javaee 6.xsd
- 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
- javaee web services client 1 4.xsd
- jsp 2 3.xsd
- web-app 3 1.xsd
- web-common 3 1.xsd
- web-fragment 3 1.xsd
- javaee 8.xsd
- web-app\_4\_0.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
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- javaee 5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee 6.xsd
- 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
- javaee web services client 1 4.xsd
- jsp 2 3.xsd
- web-app\_3\_1.xsd



- web-common 3 1.xsd
- web-fragment 3 1.xsd
- javaee\_8.xsd
- web-app 4 0.xsd
- web-common 4 0.xsd
- web-fragment 4 0.xsd

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Version 1.1 - 26 February 2007

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## gdal/frmts/gtiff/tif\_float.c

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## gdal/ogr/ogrsf\_frmts/dxf/intronurbs.cpp

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=== Knockout.js 3.4.0 ===



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=== knockout-amd-helpers 0.7.3 ===

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=== RequireJS i18n 2.0.2 ===

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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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  */
```

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=== Knockout.js 3.4.0 ===

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=== Knockout Mapping plugin v2.4.1 ===

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

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                                                          MIT 1.0.0
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js/libs/es6-promise/es6-promise.js
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                                                      MIT 1.0
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                                                      MIT 2.0.2
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js/libs/hammer/hammer-2.0.8.js
js/libs/require-css/css.js (require-css)
                                                      MIT 0.1.8
js/libs/proj4js/dist/proj4.js
                                                      Proj4js 2.3.14
scss/oj/v3.1.0/3rdparty/normalize/normalize.scss
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```
=== Knockout.js 3.4.0 ===
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=== Normalize.css ===

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=== RequireJS i18n 2.0.2 ===

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=== jsTree 1.0-rc3 ===

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=== Select2.js ===

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=== History API JavaScript Library v4.1.0 ===

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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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=== RequireJS text 2.0.12 ===

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== RequireJS 2.1.16 ==
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  *
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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\_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/qssapi/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

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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

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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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Floating point exception control

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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 cpurschke@bnl.gov>.

1999-05-03 lpd Original version.

Asynchronous socket services

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The :mod:'asynchat' and :mod:'asyncore' modules contain the following notice::

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Execution tracing

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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

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strtod and dtoa

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# Original version written by Greg Stein (gstein@lyra.org)
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# Modifications and improvements for Python 2.0 by Jeremy Hylton and
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# Some fixes to try to have correct line number on almost all nodes
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Mersenne Twister

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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 Project, http://www.wide.ad.jp/. ::

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H	loating	point	exception	control
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Asynchronous socket services

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**Execution tracing** 

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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

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-----

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Select kqueue

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-----

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Original location:

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

Solution inspired by code from:

Samuel Neves (supercop/crypto\_auth/siphash24/little)

djb (supercop/crypto\_auth/siphash24/little2)

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

strtod and dtoa

-----

The file: 'Python/dtoa.c', which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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zlib

-----

The :mod:'zlib' extension is built using an included copy of the zlib sources if the zlib version found on the system is too old to be used for the build::

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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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-----

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Lib/compiler/transformer.py
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and Bill Tutt (rassilon@lima.mudlib.org)
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# Modifications and improvements for Python 2.0 by Jeremy Hylton and
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gremlin-shaded-3.3.1

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# Index

Symbols	BaseDB SE
.NET Stored Procedures, 1-6	See Oracle Base Database Service Standard Edition
A	
	bitmapped index, 1-17 block compression, 1-7
Active Data Guard	·
See Oracle Active Data Guard	block repair, 1-7
Active Directory, 1-15	block-level media recovery, 1-7
adaptive execution plans, 1-13	
Advanced Analytics	C
See Oracle Advanced Analytics	
Advanced Compression	CDB Fleet Management, 1-5
See Oracle Advanced Compression	Centrally Managed Users, 1-15
advanced index compression, 1-16	client side query cache, 1-12
Advanced Security	Cloud Management Pack
See Oracle Advanced Security	See Oracle Cloud Management Pack
Application Continuity, 1-6	column encryption, 1-14
Application Express	concurrent execution of UNION branches, 1-13
See Oracle Application Express	Connection Manager
AQ sharded queues, 1-9	See Oracle Connection Manager
ASM	
See Oracle Automatic Storage Management (Oracle ASM)	D
attribute clustering, 1-13	
Authorized Cloud Environments, 1-1	Data Guard
feature availability, 1-3	See Oracle Data Guard
automatic block repair, 1-7, 1-18	Data Guard Far Sync, 1-7, 1-47
automatic correction of non-logged blocks, 1-7	Data Masking and Subsetting Pack
automatic data optimization, 1-17	See Oracle Data Masking and Subsetting Pack
Automatic In-Memory, 1-13	Data Pump, 1-17
Automatic Workload Management, 1-14	database gateways, 1-8
Automatic Workload Management, 1-14	Database In-Memory
	See Oracle Database In-Memory
В	Database Migration Planner, 1-22
	Database Migration Workbench, 1-22
backup and recovery, 1-8	database options, 1-18
backup, fast incremental, 1-7, 1-18	checking for usage, 1-46
BaseDB EE	Oracle Active Data Guard, 1-7, 1-18
See Oracle Base Database Service Enterprise	Oracle Advanced Compression, 1-16, 1-19
Edition	Oracle Advanced Security, 1-14, 1-19, 1-47
BaseDB EE-EP	Oracle Database In-Memory, 1-13, 1-20
See Oracle Base Database Service Enterprise Edition - Extreme Performance	Oracle Database Vault, 1-14, 1-20, 1-47,
BaseDB EE-HP	1-52
See Oracle Base Database Service Enterprise	Oracle Label Security, 1-14, 1-20
Edition - High Performance	Oracle Multitenant, 1-5, 1-20



Fail Safe	key compression
F	K
column, 1-14 tablespace, 1-14 Enterprise Edition See Oracle Database Enterprise Edition Enterprise Package See Oracle Base Database Service Enterprise Edition Enterprise User Security, 1-15, 1-47, 1-52 ExaCC See Oracle Database Exadata Cloud@Customer ExaCS See Oracle Database Exadata Cloud Service ExaCS/CC See Oracle Database Exadata Cloud Service and Oracle Database Exadata Cloud@Customer Exadata See Oracle Exadata Extreme Performance Package See Oracle Base Database Service Enterprise Edition - Extreme Performance	I/O Resource Management, 1-9 In-Memory See Oracle Database In-Memory In-Memory Aggregation, 1-13 In-Memory Column Cache on Storage Servers, 1-13 In-Memory Column Store, 1-13 fault tolerant, 1-13 In-Memory Column Store support for External Tables, 1-13 In-Memory Parallel Execution, 1-17 index rebuild, 1-7 infrastructure repository databases, 1-47 Instance Caging, 1-9 Internet Directory See Oracle Internet Directory (OID)
editions, 1-1  EE  See Oracle Database Enterprise Edition  EE-ES  See Oracle Database Enterprise Edition on Engineered Systems  encryption	heat map, 1-17 High Performance Package See Oracle Base Database Service Enterprise Edition - High Performance HTTP Server See Oracle HTTP Server hybrid columnar compression, 1-16 row-level locking, 1-16
deferred segment creation, 1-17 Diagnostics Pack See Oracle Diagnostics Pack duplexed backup sets, 1-7  E	Gateway for ODBC  See Oracle Database Gateway for ODBC Global Data Services, 1-8, 1-47, 1-52  H
Database Replay, 1-22, 1-47 Database Resource Manager, 1-9 Database Smart Flash Cache, 1-12 Database Vault See Oracle Database Vault	Fleet Patching and Provisioning, 1-12  G
database options (continued)  Oracle On-Line Analytical Processing, 1-20  Oracle On-Line Analytical Processing  (OLAP), 1-16  Oracle Partitioning, 1-16, 1-21  Oracle RAC One Node, 1-6, 1-21  Oracle Real Application Clusers, 1-21  Oracle Real Application Clusters (Oracle RAC), 1-1, 1-14, 1-47  Oracle Real Application Testing, 1-9, 1-22,  1-47  Oracle TimesTen Application-Tier Database  Cache, 1-12, 1-23	far sync, 1-7, 1-47 fast incremental backup, 1-7, 1-18 fast-start fault recovery, 1-8 Fault Tolerant In-Memory Column Store, 1-13 feature availability, 1-3 fine-grained auditing, 1-15 flash cache, 1-12 flashback database, 1-8 table, 1-8 transaction, 1-8 Flashback Data Archive, 1-8



See prefix compression Keystore for Each Pluggable Database, 1-15	online index rebuild, 1-7	
	online table organization, 1-7	
	online table redefinition, 1-7	
L	options	
	See database options	
Label Security	options_packs_usage_statistics.sql, 1-46	
See Oracle Label Security	Oracle Active Data Guard, 1-7, 1-18	
Lifecycle Management Pack	rolling upgrades, 1-7	
See Oracle Database Lifecycle Management Pack	Oracle Advanced Analytics, 1-16	
for Oracle Database	Oracle Advanced Compression, 1-16, 1-19, 1-52	
Load Testing Accelerator, 1-54	Oracle Advanced Security, 1-14, 1-19, 1-47, 1-52	
lost write protection, 1-7	Oracle Application Express, 1-52 Oracle Application Server Containers for J2EE (OC4J), 1-52	
M		
	Oracle Applications Unlimited, 1-52	
Machine Learning See Oracle Machine Learning	Oracle Automatic Storage Management (Oracle ASM), 1-47, 1-49	
management packs, 1-23	Oracle Automatic Storage Management Cluster	
checking for usage, 1-46	File System (Oracle ACFS), 1-47	
Oracle Cloud Management Pack, 1-9, 1-24	Oracle Base Database Service Enterprise	
Oracle Data Masking and Subsetting Pack,	Edition, 1-1	
1-9, 1-27	feature availability, 1-3	
Oracle Database Lifecycle Management	options, 1-18	
Pack for Oracle Database, 1-9, 1-29	Oracle Base Database Service Enterprise Edition	
Oracle Diagnostics Pack, 1-9, 1-42	- Extreme Performance, 1-1	
Oracle Tuning Pack, 1-9, 1-42, 1-45	feature availability, 1-3	
materialized view query rewrite, 1-17	management packs, 1-23	
media recovery, 1-7	options, 1-18	
Memoptimized Rowstore, 1-13	Oracle Base Database Service Enterprise Edition	
messaging gateway, 1-8	- High Performance, 1-1	
Microsoft Active Directory, 1-15	feature availability, 1-3	
Microsoft Distributed Transaction Coordinator,	management packs, 1-23	
1-6	options, 1-18	
Multitenant	Oracle Base Database Service Standard Edition,	
See Oracle Multitenant	1-1	
	feature availability, 1-3	
N	options, 1-18	
IV	Oracle Big Data SQL, 1-52	
Native .NET Data Provider, 1-6	Oracle Cloud Management Pack, 1-9, 1-24	
network compression, 1-12	Oracle Clusterware, 1-47	
NoSQL	Oracle Connection Manager, 1-12, 1-47	
See Oracle NoSQL Database	Oracle Data Guard, 1-7	
200 0.40.0 1.00 (2 2 4.40.400	Oracle Data Masking and Subsetting Pack, 1-9,	
	1-27	
O	Oracle Database Backup Cloud Service, 1-47	
OC4J	Oracle Database Enterprise Edition, 1-1	
See Oracle Application Server Containers for J2EE	feature availability, 1-3	
(OC4J)	management packs, 1-23	
offerings, 1-1	options, 1-18	
OID	Oracle Database Enterprise Edition on	
See Oracle Internet Directory (OID)	Engineered Systems, 1-1	
OLAP	feature availability, 1-3	
See Oracle On-Line Analytical Processing (OLAP)		
OLTP	management packs, 1-23	
See Oracle On-Line Analytical Processing	options, <i>1-18</i>	
online datafile move, 1-8		

Oracle Database Enterprise Edition on Oracle	Oracle RAC
Database Appliance	See Oracle Real Application Clusters
feature availability, <del>1-3</del>	Oracle RAC One Node, 1-6, 1-21
management packs, 1-23	Oracle Real Application Clusters, 1-21
options, <i>1-18</i>	Oracle Real Application Clusters (Oracle RAC),
Oracle Database Enterprise Edition on Oracle	1-1, 1-14, 1-47
Exadata Database Machine	Oracle Real Application Testing, 1-9, 1-22, 1-47,
feature availability, 1-3	1-52
management packs, 1-23	Oracle Secure Backup, 1-47, 1-52
options, 1-18	Oracle Secure Backup Cloud Module, 1-47, 1-52
Oracle Database Exadata Cloud Service, 1-1	Oracle Secure Backup Express, 1-47, 1-52
feature availability, 1-3	Oracle Sharding, 1-6, 1-52
management packs, 1-23	Oracle Spatial and Graph, 1-16
options, 1-18	Oracle Streams, 1-8
Oracle Database Exadata Cloud@Customer, 1-1	Oracle TimesTen Application-Tier Database
feature availability, 1-3	Cache, 1-12, 1-23
management packs, 1-23	Oracle Tuning Pack, 1-9, 1-42, 1-45
options, 1-18	Oracle Unified Directory (OUD), 1-52
Oracle Database Gateway for ODBC, 1-47	Oracle Wallet, 1-47
Oracle Database In-Memory, 1-13, 1-20	,
Oracle Database Lifecycle Management Pack for	Р
Oracle Database, 1-9, 1-29	P
Oracle Database Mobile Server, 1-52	packages, 1-1
Oracle Database Personal Edition, 1-1	parallel
feature availability, <i>1-1</i>	backup and recovery, 1-8
options, 1-18	capture and apply, 1-17
Oracle Database Provider for DRDA, 1-47	index build/scans, 1-17
Oracle Database Real Application Security, 1-15	query/DML, 1-17
Oracle Database Standard Edition 2, 1-1	spatial index builds, 1-16
feature availability, 1-3	statement queuing, 1-17
options, 1-18	· -
special-use licensing with Oracle Real	statistics gathering, 1-17
Application Clusters, 1-47	Parallel Data Pump Export/Import, 1-17
···	partitioned spatial indexes, 1-16
Oracle Database Vault, 1-14, 1-20, 1-47, 1-52	partitioning
Oracle Developer Tools for Visual Studio, 1-6	See Oracle Partitioning
Oracle Diagnostics Pack, 1-9, 1-42	Partitioning See Oracle Partitioning
Oracle Exadata, 1-12	PDB Snapshot Carousel, 1-5
Oracle Exadata Flash Cache Compression, 1-17	Personal Edition
Oracle Fail Safe, 1-6	See Oracle Database Personal Edition
Oracle Fleet Patching and Provisioning, 1-12	physical standby, 1-18
Oracle GoldenGate, 1-47	PL/SQL function result cache, <i>1-12</i>
Oracle HTTP Server, 1-52	pluggable databases, 1-5
Oracle Internet Directory (OID), 1-47, 1-52	point-in-time recovery, 1-8
Oracle Label Security, 1-14, 1-20, 1-47, 1-52	prefix compression, 1-16
Oracle Load Testing, 1-54	·
Oracle Load Testing Controller, 1-54	privilege analysis, <i>1-15</i> Provider for DRDA
Oracle Machine Learning, 1-16	See Oracle Database Provider for DRDA
Oracle Multitenant, 1-5, 1-20, 1-52	See Oracle Database Provider for DRDA
Oracle NoSQL Database, 1-14	
Oracle On-Line Analytical Processing, 1-20	Q
Oracle On-Line Analytical Processing (OLAP),	Overlieve of Country Management 1 4 4 4
1-16	Quality of Service Management, 1-14
Oracle Partitioning, 1-16, 1-21	query cache, 1-12
Oracle Programmer, 1-6, 1-52	query results cache, 1-12
Oracle R Enterprise, 1-16	



R	See Oracle Database Standard Edition 2 Standard Package
R	See Oracle Base Database Service Standard
See Oracle R Enterprise	Edition
RAC	Streams
See Oracle Real Application Clusters	See Oracle Streams
RAC One Node	
See Oracle RAC One Node	Т
rapid home provisioning, 1-12	I
RDMA fabric, 1-12	table compression, 1-17
Real Application Clusters	·
See Oracle Real Application Clusters (Oracle RAC)	tablespace encryption, 1-14
Real Application Security	tablespace point-in-time recovery, 1-8 TimesTen
See Oracle Database Real Application Security	
Real Application Testing	See Oracle TimesTen Application-Tier Database Cache
See Oracle Real Application Testing	
real-time cascading standby, 1-7	TimesTen Application-Tier Database Cache
Recovery Manager (RMAN), 1-52	See Oracle TimesTen Application-Tier Database Cache
, , , ,	Transaction Guard, 1-8
recovery,	
block-level media, 1-7	transparent sensitive data protection, <i>1-15</i>
fast-start fault, 1-8	transportable tablespaces, 1-17
parallel backup and, 1-8	trial recovery, 1-8
point-in-time, 1-8	Tuning Pack
trial, <i>1-8</i>	See Oracle Tuning Pack
redaction, 1-15	
redo apply, 1-7	U
refreshable PDB switchover, 1-5	
restricted use licensing, 1-52	Uncompressed Flashback Data Archive, 1-8
RMAN backups, 1-8	Unified Audit, 1-52
rolling upgrades, 1-7	upgrades, rolling, 1-7
row-level locking, 1-16	- 1-3
•	\/
C	V
S	vault
SE2	See Oracle Database Vault
See Oracle Database Standard Edition 2	Virtual Private Database, 1-15
semantic technologies, 1-16	VIIIudi Fiivale Dalabase, 1-13
•	
Shard Director, 1-47	W
sharded queues, 1-9	
smart flash cache, 1-12	Wallet
snapshot standby, 1-7	See Oracle Wallet
snapshots, 1-15	workload management, 1-14
Spatial and Graph	
See Oracle Spatial and Graph	X
special license rights, 1-47	<u> </u>
SQL apply, 1-7	XStream, 1-17, 1-47
SQL Performance Analyzer, 1-22, 1-50	7.00 0ain, 2 21, 2 71
SQL Plan Management, 1-10	_
SQL Tuning Sets, 1-11	Z
SQLJ, 1-6	
Standard Edition 2	zone maps, <i>1-14</i> , <i>1-21</i>

