# Oracle® Database Licensing Information User Manual





Oracle Database Licensing Information User Manual, 12c Release 2 (12.2)

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Contributors: Penny Avril, Prabhaker Gongloor, Mughees Minhas, Anu Natarajan, Jill Robinson

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### **Preface**

This Preface contains these topics:

- Audience
- Documentation Accessibility
- Related Documents
- Conventions

### **Audience**

This book is intended for all purchasers of Oracle Database 12c.

# **Documentation Accessibility**

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

### **Access to Oracle Support**

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

### **Related 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
- The Software Investment Guide, available at:

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

### 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.



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# **Licensing Information**

### This chapter contains:

- Introduction
- Oracle Database Offerings and Their Permitted Features
- Special License Rights
- · Restricted Use Licenses
- Third-Party Notices and/or Licenses
- Third-Party Notices and/or Licenses for Oracle DBaaS Monitor

### 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 and Their Permitted Features

### This section contains:

- 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

### 1.2.1 Oracle Database Offerings

Table 1-1 lists Oracle Database offerings.

Table 1-1 Oracle Database Offerings

Oracle Database Offering	Offering Type	Abbreviated Name Used in this Guide	Description					
Oracle Database Standard Edition 2	On- Premises	SE2	Oracle Database Standard Edition 2 includes features necessary to develop workgroup, department-level, and Web applications.					
Oracle Database Enterprise Edition	On- Premises	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 Oracle Exadata Database	On- Premises	EE-Exa	Oracle Database Enterprise Edition software installed on an on-premises Oracle Exadata Database Machine or an on-premises Oracle Supercluster.					
Machine			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.					
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 Database Cloud Service Standard Edition	Cloud	DBCS SE	Includes Oracle Database Standard Edition 2 software.					
Oracle Database Cloud Service Enterprise Edition	Cloud	DBCS EE	Includes Oracle Database Enterprise Edition software.					
Oracle Database Cloud Service Enterprise Edition - High Performance	Cloud	DBCS EE- HP	Includes Oracle Database Enterprise Edition software plus many Oracle Database options and Oracle management packs.					
Oracle Database Cloud Service Enterprise Edition - Extreme Performance	Cloud	DBCS EE-EP	Includes Oracle Database Enterprise Edition software plus all Oracle Database options and Oracle management packs that are appropriate for use in Oracle Database Cloud Service.					
Oracle Database Exadata Cloud Service	Cloud	ExaCS	Includes 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.					

### **Related Topics:**

Oracle Database Options and Their Permitted Features



Oracle Management Packs and Their Permitted Features

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

Table 1-2 lists Oracle Database features, Oracle Database options, and Oracle management packs, organized into functional categories, along with their availability for each Oracle Database offering. This table can help you understand the difference between Oracle Database offerings to determine which one is right for you.

The Y value in a column means that the feature, option, or pack is available; N means that it is unavailable; N/A means that it is not applicable.

Table 1-2 Feature, Option, and Management Pack Availability by Oracle Database Offering

Feature/Option/ Pack	SE 2	EE	EE- Exa	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Oracle Multitenant	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.
									<ul> <li>EE: Extra cost option; if you are licensed for Oracle Multitenant, then you can create up to 252 PDBs.</li> </ul>
									EE-Exa: Extra cost option; if you are licensed for Oracle Multitenant, then you can create up to 4096 PDBs.
									DBCS EE-HP, DBCS EE-EP, and ExaCS: Included option; you can create up to 4096 PDBs.
Snapshots and Cloning	_	_	_	_	_	_	_	_	_
Storage Snapshot Optimization	N	Y	Y	N/A	N/A	N/A	N/A	N/A	EE and EE-Exa: Requires the Advanced Compression option
High Availability		_							



Table 1-2 (Cont.) Feature, Option, and Management Pack Availability by Oracle Database Offering

Feature/Option/ Pack	SE 2	EE	EE- Exa	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Application Continuity	N	Y	Y	N	N	N	Υ	Y	EE and EE-Exa: Requires the Active Data Guard option or the Real Application Clusters option
Oracle Sharding	N	Y	Υ	N	Y	Y	Y	Y	EE and EE-Exa: No limit on the number of either primary shards or standby shards if every shard has an Active Data Guard, Golden Gate, or Oracle RAC license. Without an Active Data Guard, Golden Gate, or Oracle RAC license, use is limited to three primary shards, with basic Data Guard standbys.
									DBCS EE and DBCS EE- HP: Use is limited to three primary shards; there is no limit on the number of standby shards.
									DBCS EE-EP and ExaCS: 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	N	Υ	Υ	N	N	N	N	Υ	<b>EE</b> and <b>EE-Exa</b> : Extra cost option
Oracle Data Guard— Redo Apply	N	Υ	Υ	N	Υ	Y	Υ	Υ	
Oracle Data Guard— Far Sync Standby	N	Υ	Υ	N	N	N	Y	Υ	<b>EE</b> and <b>EE-Exa</b> : Requires the Active Data Guard option
Oracle Data Guard— SQL Apply	N	Υ	Y	N	Υ	Y	Y	Υ	
Oracle Data Guard— Snapshot Standby	N	Υ	Υ	N	Υ	Y	Υ	Υ	
Oracle Data Guard— Real-Time Cascading Standbys	N	Y	Υ	N	N	N	Y	Y	<b>EE</b> and <b>EE-Exa</b> : Requires the Active Data Guard option
Oracle Active Data Guard	N	Υ	Y	N	N	N	Y	Υ	<b>EE</b> and <b>EE-Exa</b> : Extra cost option
Rolling Upgrades— Patch Set, Database, and Operating System	N	Y	Y	N	Υ	Y	Υ	Υ	
Rolling Upgrade Using Active Data Guard	N	Υ	Υ	N	N	N	Y	Y	<b>EE</b> and <b>EE-Exa</b> : Requires the Active Data Guard option



Table 1-2 (Cont.) Feature, Option, and Management Pack Availability by Oracle Database Offering

Feature/Option/ Pack	SE 2	EE	EE- Exa	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Online index rebuild	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Online table organization	N	Υ	Υ	N	Υ	Y	Y	Υ	ALTER TABLE MOVE ONLINE operations
Online table redefinition	N	Υ	Υ	N	Υ	Υ	Y	Υ	Using the DBMS_REDEFINITION package
Duplexed backup sets	N	Υ	Υ	N	Υ	Y	Y	Υ	
Block change tracking for fast incremental backup	N	Y	Y	N	N	N	Y	Y	
Unused block compression in backups	N	Y	Y	N	Y	Y	Y	Y	
Block-level media recovery	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Lost Write Protection	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Automatic Block Repair	N	Υ	Υ	N	N	N	Y	Υ	<b>EE</b> and <b>EE-Exa</b> : Requires the Active Data Guard option
Parallel backup and recovery	N	Υ	Υ	N	Y	Y	Y	Υ	
Tablespace point-in- time recovery	N	Υ	Υ	N	Υ	Υ	Y	Υ	
Trial recovery	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Fast-start fault recovery	N	Υ	Υ	N	Υ	Υ	Y	Υ	
Flashback Table	N	Υ	Υ	N	Υ	Υ	Υ	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	Υ	Υ	Υ	Y	
Optimization for Flashback Data Archive	N	Y	Υ	N	N	Y	Y	Y	Basic Flashback Data Archive is in all offerings.  EE and EE-Exa: Optimization for Flashback Data Archive requires the Advanced Compression
Online Det-El- Ma	<b>N</b> 1			K.1					option
Online Datafile Move	N	Y	Y	N	Y	Y	Y	Y	
Cross-platform Backup and Recovery	N	Y	Y	N N	Y	Y	Y	Y	



Table 1-2 (Cont.) Feature, Option, and Management Pack Availability by Oracle Database Offering

Feature/Option/ Pack	SE 2	EE	EE- Exa	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Global Data Services	N	Υ	Υ	N	N	N	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Requires the Active Data Guard option.
Recovering tables and table partitions from RMAN backups	N	Y	Υ	N	Y	Y	Y	Υ	
Scalability	_	_	_	_	_	_	_	_	_
Oracle Real Application Clusters	Υ	Υ	Υ	N	N	N	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Extra cost option
Automatic Workload Management	Υ	Υ	Υ	N	N	N	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Requires the Real Application Clusters option
Quality of Service Management	Y	Y	Υ	N	N	N	Y	Υ	EE and EE-Exa: Requires the Real Application Clusters option
Oracle NoSQL Database Basic Edition	N	Y	Υ	N/A	N/A	N/A	N/A	N/A	
Performance	_	_	_	_	_	_	_	_	_
Client Side Query Cache	N	Υ	Y	N	Y	Y	Υ	Υ	
Query Results Cache	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
PL/SQL Function Result Cache	N	Υ	Y	N	Υ	Y	Y	Υ	
Oracle TimesTen Application-Tier Database Cache	N	Y	Υ	N	N	N	N	N	<b>EE</b> and <b>EE-Exa</b> : Extra cost option
Database Smart Flash Cache	N	Υ	N/A	N/A	N/A	N/A	N/A	N/A	<b>EE</b> : Solaris and Oracle Linux only
Support for Oracle Exadata Storage Server Software	N	Υ	Υ	N	N	N	N	Υ	
Adaptive Execution Plans	N	Υ	Y	N	Υ	Y	Υ	Υ	
Concurrent Execution of UNION and UNION ALL Branches	N	Y	Υ	N	Υ	Υ	Υ	Υ	
In-Memory Column Store	N	Y	Υ	N	N	N	Y	Y	<b>EE</b> and <b>EE-Exa</b> : Requires the Database In-Memory option



Table 1-2 (Cont.) Feature, Option, and Management Pack Availability by Oracle Database Offering

Feature/Option/ Pack	SE 2	EE	EE- Exa	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
In-Memory Column Store on Active Data Guard standby	N	N	Y	N	N	N	Υ	Υ	<b>EE-Exa</b> : Requires the Database In-Memory option and the Active Data Guard option
Fault Tolerant In- Memory Column Store	N	Y	Y	N	N	N	N	Y	EE: Requires Database Appliance, the Database In- Memory option, and the Real Application Clusters option
									<b>EE-Exa</b> : Requires the Database In-Memory option and the Real Application Clusters option
In-Memory Aggregation	N	Y	Υ	N	N	N	Y	Υ	<b>EE</b> and <b>EE-Exa</b> : Requires the Database In-Memory option
Attribute Clustering	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Zone Maps	N	N	Υ	N	N	N	N	Υ	<b>EE-Exa</b> : Requires the Partitioning option
Security	_	_	_	_	_	_	_	_	_
Column-Level Encryption	N	Υ	Υ	N	N	Υ	Y	Y	<b>EE</b> and <b>EE-Exa</b> : Requires the Advanced Security option
Tablespace Encryption	N	Y	Υ	Y	Υ	Υ	Υ	Y	<b>EE</b> and <b>EE-Exa</b> : Requires the Advanced Security option
Oracle Advanced Security	N	Υ	Υ	N	N	Y	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Extra cost option.
Oracle Database Vault	N	Υ	Υ	N	N	Y	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Extra cost option.
Oracle Label Security	N	Υ	Υ	N	N	Y	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Extra cost option.
Enterprise User Security	N	Y	Y	N	N	N	N	N	EE and EE-Exa: 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.
Fine-grained Auditing	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Privilege Analysis	N	Υ	Υ	N	N	Υ	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Requires the Database Vault option
Real Application Security	N	Υ	Υ	N	Υ	Υ	Υ	Υ	



Table 1-2 (Cont.) Feature, Option, and Management Pack Availability by Oracle Database Offering

Feature/Option/ Pack	SE 2	EE	EE- Exa	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Redaction	N	Y	Υ	N	N	Υ	Y	Υ	<b>EE</b> and <b>EE-Exa</b> : Requires the Oracle Advanced Security option
Transparent Sensitive Data Protection	N	Y	Y	N	Y	Y	Y	Y	
Virtual Private Database	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Development Platform	_	_	_	_	_	_	_	_	_
SQLJ	Υ	Υ	Y	Y	Υ	Υ	Υ	Υ	Requires Oracle Programmer
Oracle Developer Tools for Visual Studio .NET	Υ	Y	N/A	N/A	N/A	N/A	N/A	N/A	Windows only
Microsoft Distributed Transaction Coordinator support	Υ	Υ	N/A	N/A	N/A	N/A	N/A	N/A	Windows only
Active Directory integration	Υ	Υ	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	Υ	Υ	N/A	N/A	N/A	N/A	N/A	N/A	Windows only
Manageability	_	_	_	_	_	_	_	_	_
Oracle Cloud Management Pack for Oracle Database	N	Y	Υ	N	N	Υ	Υ	Y	<b>EE</b> and <b>EE-Exa</b> : Extra cost option
Oracle Data Masking and Subsetting Pack	N	Υ	Y	N	Υ	Y	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Extra cost option
Oracle Database Lifecycle Management Pack for Oracle Database	N	Y	Υ	N	N	Y	Y	Y	<b>EE</b> and <b>EE-Exa</b> : Extra cost option
Oracle Diagnostics Pack	N	Υ	Y	N	Υ	Y	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Extra cost option
Oracle Tuning Pack	N	Y	Υ	N	Υ	Υ	Υ	Y	<b>EE</b> and <b>EE-Exa</b> : Extra cost option, also requires Oracle Diagnostics Pack
Oracle Real Application Testing	N	Υ	Y	N	Υ	Y	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Extra cost option.
Database Resource Manager	N	Υ	Y	N	Y	Υ	Υ	Y	



Table 1-2 (Cont.) Feature, Option, and Management Pack Availability by Oracle Database Offering

Feature/Option/ Pack	SE 2	EE	EE- Exa	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
I/O Resource Management	N	N	Y	N	N	N	N	Υ	
Instance Caging	Υ	Υ	Υ	N/A	N/A	N/A	N/A	N/A	
SQL Plan Management	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
SQL Tuning Sets	N	Y	Y	N	N	Y	Y	Y	EE and EE-Exa: SQL Tuning Sets can also be accessed by way of database server APIs and command-line interfaces. The following subprograms, part of the DBMS_SQLTUNE package, provide an interface to manage SQL Tuning Sets and are part of the EE and EE-Exa oferings:  ADD_SQLSET_REFERENCE, CAPTURE_CURSOR_CACHE_SQLSET, CREATE_SQLSET, CREATE_STGTAB_SQLSET, DELETE_SQLSET, DROP_SQLSET, LOAD_SQLSET, PACK_STGTAB_SQLSET, REMOVE_SQLSET_REFERENCE, SELECT_CURSOR_CACHE, SELECT_SQLSET, SELECT_SQLSET, Y, UNPACK_STGTAB_SQLSET, UPDATE_SQLSET.
Rapid Home Provisioning	N	Y	Y	N/A	N/A	N/A	N/A	N/A	EE and EE-Exa: When deployed across multiple clusters, requires Lifecycle Management Pack on targets
VLDB, Data Warehousing, Business Intelligence	_	_		_	_				_
Oracle Partitioning	N	Y	Y	N	Y	Y	Y	Y	eE and ee-exa: Extra cost option  DBCS EE: Available only if the Database Cloud Service instance is being used to support an Oracle Cloud deployment of an Oracle Applications Unlimited application



Table 1-2 (Cont.) Feature, Option, and Management Pack Availability by Oracle Database Offering

Feature/Option/ Pack	SE 2	EE	EE- Exa	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Oracle On-Line Analytical Processing	N	Υ	Y	N	Υ	Y	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Extra cost option
(OLAP)									DBCS EE: Available only if the Database Cloud Service instance is being used to support an Oracle Cloud deployment of an Oracle Applications Unlimited application
Oracle Advanced Analytics	N	Υ	Υ	N	N	Υ	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Extra cost option
Oracle Advanced Compression	N	Υ	Υ	N	N	Υ	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Extra cost option
Advanced Index Compression	N	Υ	Y	N	N	Y	Y	Y	<b>EE</b> and <b>EE-Exa</b> : Requires the Advanced Compression option
Prefix Compression (also called Key Compression)	N	Y	Υ	N	Υ	Υ	Υ	Υ	
Hybrid Columnar Compression	N	Υ	Υ	N	Υ	Υ	Υ	Υ	<b>EE</b> : Requires ZFS, Axiom, or FS1 storage
Hybrid Columnar Compression Row- Level Locking	N	Y	Υ	N	N	N	N	Υ	<b>EE</b> : Requires ZFS or FS1 storage, and the Advanced Compression option
									<b>EE-Exa</b> : Requires the Advanced Compression option
Exadata Flash Cache Compression	N	N	Υ	N	N	N	N	Y	<b>EE-Exa</b> : Requires the Advanced Compression option
Heat Map	N	Y	Y	N	N	Y	Υ	Υ	EE and EE-Exa: Requires the Advanced Compression option or the Database In- Memory option
Automatic Data Optimization	N	Υ	Y	N	N	Y	Y	Y	EE and EE-Exa: Requires the Advanced Compression option or the Database In- Memory option
Basic Table Compression	N	Υ	Υ	N	Υ	Υ	Y	Υ	
Deferred Segment Creation	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Bitmapped index, bitmapped join index, and bitmap plan conversions	N	Υ	Y	N	Υ	Y	Y	Υ	



Table 1-2 (Cont.) Feature, Option, and Management Pack Availability by Oracle Database Offering

Feature/Option/ Pack	SE 2	EE	EE- Exa	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Parallel query/DML	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Parallel statistics gathering	N	Υ	Υ	N	Υ	Y	Υ	Υ	
Parallel index build/ scans	N	Υ	Υ	N	Υ	Y	Υ	Υ	
Parallel Data Pump Export/Import	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
In-memory Parallel Execution	N	Υ	Υ	N	Υ	Y	Υ	Υ	
Parallel Statement Queuing	N	Υ	Υ	N	Y	Υ	Υ	Υ	
Parallel capture and apply via XStream	N	Υ	Y	N	Y	Υ	Y	Υ	
Transportable tablespaces, including cross- platform and full transportable export and import	N	Y	Y	N	Y	Y	Y	Y	
Summary management— Materialized View Query Rewrite	N	Υ	Y	N	Y	Υ	Υ	Υ	
Integration	_	_	_	_	_	_	_	_	_
Basic Replication	Υ	Υ	Y	Y	Υ	Υ	Υ	Υ	<b>SE2</b> : read-only, updateable materialized view
Oracle Streams	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	SE2: no capture from redo
Database Gateways	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Separate product license
Messaging Gateway	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Sharded Queues	N	Υ	Υ	N	N	Y	Y	Υ	<b>EE</b> and <b>EE-Exa</b> : Requires the Partitioning option
Networking	_	_	_	_	_	_	_	_	_
Infiniband Support	N	Υ	Υ	N	N	N	N	Υ	
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	Y	Y	Υ	<b>EE</b> and <b>EE-Exa</b> : Requires the Advanced Compression option
Network Encryption (SSL/TLS)	Y	Υ	Υ	Y	Y	Υ	Y	Υ	



Table 1-2 (Cont.) Feature, Option, and Management Pack Availability by Oracle Database Offering

Feature/Option/ Pack	SE 2	EE	EE- Exa	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Spatial and Graph Data	_	_	_	_	_	_	_	_	_
Oracle Spatial and Graph	N	Υ	Υ	N	Υ	Υ	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Extra cost option
									DBCS EE: Available only if the Database Cloud Service instance is being used to support an Oracle Cloud deployment of an Oracle Applications Unlimited application
Graph and Semantic Technologies (RDF/ OWL)	N	Y	Y	N	Υ	Y	Y	Y	<b>EE</b> and <b>EE-Exa</b> : Requires the Spatial and Graph option and the Partitioning option
									DBCS EE: Available only if the Database Cloud Service instance is being used to support an Oracle Cloud deployment of an Oracle Applications Unlimited application
Parallel spatial index builds	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Multimaster replication of SDO_GEOMETRY objects	N	Y	Y	N	Y	Υ	Υ	Y	EE and EE-Exa: Single master/materialized view replication for SDO_GEOMETRY objects is supported
Partitioned spatial indexes	N	Υ	Y	N	Y	Υ	Υ	Υ	<b>EE</b> and <b>EE-Exa</b> : Requires the Partitioning option
									DBCS EE: Available only if the Database Cloud Service instance is being used to support an Oracle Cloud deployment of an Oracle Applications Unlimited application

## 1.2.3 Oracle Database Options and Their Permitted Features

Table 1-3 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 1-3 Oracle Database Options and Their Permitted Features

Option	Availability	Included Features
Oracle Active Data Guard	Extra cost option: EE, EE-Exa Included option: PE, DBCS EE-EP, ExaCS	Oracle Active Data Guard includes the following features:  Physical Standby with Real-time Query  Fast Incremental Backup on Physical Standby  Automatic Block Repair  Active Data Guard Far Sync  Global Data Services  Real-Time Cascade  Application Continuity  Rolling Upgrade using Active Data Guard  Active Data Guard must be licensed on any standby databases with any of the above features in use, as well as the primary database. If there are additional standby databases in the Oracle Data Guard configuration that are not using any of the Active Data Guard features, those standby databases do not require an Active Data Guard license.
Oracle Advanced Analytics	Extra cost option: EE, EE-Exa Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS	<ul> <li>Oracle Advanced Analytics includes the following features:</li> <li>In-database data mining algorithms:         <ul> <li>Model build (accessed via the DBMS_DATA_MINING package)</li> <li>Data transformations (accessed via the DBMS_DATA_MINING_TRANSFORM package)</li> <li>Model scoring (accessed via SQL Scoring functions)</li> <li>Predictive Analytics (accessed via the DBMS_PREDICTIVE_ANALYTICS package)</li> </ul> </li> <li>Oracle R Enterprise (integration with open-source R)         <ul> <li>The Oracle R Enterprise R transparency layer: The transparency layer allows an R user to directly interact with database-resident data using R language constructs.</li> <li>The Oracle R Enterprise statistics engine, a collection of statistical functions and procedures.</li> <li>Embedded R: ORE can launch multiple R servers while the database manages data flows to enable parallel R processes running independently.</li> <li>All Oracle R Enterprise functionality is invoked using the ORE package.</li> </ul> </li> </ul>



Table 1-3 (Cont.) Oracle Database Options and Their Permitted Features

Option	Availability	Included Features
Oracle Advanced Compression  Oracle Advanced Security	Extra cost option: EE, EE-Exa Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS  Extra cost option: EE, EE-Exa Included option: PE, DBCS EE-HP, DBCS EE-HP, DBCS EE-HP, DBCS EE-HP, DBCS EE-EP, ExaCS	Oracle Advanced Compression includes the following features: <ul><li>Advanced Row Compression</li></ul>
Oracla Databaco In	Evtra cost ontion:	are available in all licensed editions of all supported releases of Oracle Database.
Oracle Database In- Memory	Extra cost option: EE, EE-Exa Included option: PE, DBCS EE-EP, ExaCS	<ul> <li>Oracle Database In-Memory includes the following features:</li> <li>In-Memory Column Store</li> <li>Fault Tolerant In-Memory Column Store (Requires Exadata, Supercluster, Database Appliance, or Exadata Cloud Service)</li> <li>In-Memory Aggregation</li> <li>Heat Map</li> <li>Automatic Data Optimization</li> </ul>



Table 1-3 (Cont.) Oracle Database Options and Their Permitted Features

Option	Availability	Included Features
Oracle Database Vault	Extra cost option: EE, EE-Exa Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS	Oracle Database Vault includes the following features:  Realms  Mandatory Realms  Command Rules  Privilege Analysis Oracle Database Vault includes a restricted use license for certain Oracle Enterprise Manager features. Refer to Oracle Database Vault for more information.
Oracle Label Security	Extra cost option: EE, EE-Exa Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS	Oracle Label Security includes the following features:  Label based access control (LBAC)  Multi-level security (MLS)  Label factors for 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 for more information.
Oracle Multitenant	Extra cost option: EE, EE-Exa Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS	Oracle Multitenant includes the following features:  • For EE and PE, the ability to have up to 252 pluggable databases per multitenant container database  • For EE-Exa, DBCS EE-HP, DBCS EE-EP, and ExaCS, the ability to have up to 4096 pluggable databases per multitenant container database  A restricted use license for Oracle Multitenant is included with all Oracle Database offerings. Refer to Oracle Multitenant for more information.
Oracle On-Line Analytical Processing (OLAP)	Extra cost option: EE, EE-Exa Included option: PE, DBCS EE (see Note), DBCS EE- HP, DBCS EE-EP, ExaCS	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  Note: Oracle On-Line Analytical Processing (OLAP) is an included option in DBCS EE only if the Database Cloud Service instance is being used to support an Oracle Cloud deployment of an Oracle Applications Unlimited application.
Oracle Partitioning	Extra cost option: EE, EE-Exa Included option: PE, DBCS EE (see Note), DBCS EE- HP, DBCS EE-EP, ExaCS	Oracle Partitioning includes the following features:  Table Partitions and Subpartitions  Global and Local Index Partitions and Subpartitions  Sharded Queues  Zone Maps (Available only on EE-Exa or ExaCS – requires Exadata or Supercluster)  Note: Oracle Partitioning is an included option in DBCS EE only if the Database Cloud Service instance is being used to support an Oracle Cloud deployment of an Oracle Applications Unlimited application.



Table 1-3 (Cont.) Oracle Database Options and Their Permitted Features

Option	Availability	Included Features	
Oracle RAC One Node	Extra cost option:  EE, EE-Exa Included option: ExaCS	Oracle RAC One Node includes the following features:  Database Cold Failover to another node in the cluster in case of server or instance failure  Online migration of the database instance to another server  Support for online rolling upgrades of the database, grid infrastructure, and OS homes  Online upgrade to Oracle Real Application Clusters  Policy-managed Server Pools  Quality of Service Management  Application Continuity	
Oracle Real Application Clusters (Oracle RAC)	Extra cost option: EE, EE-Exa Included option: DBCS EE-EP, ExaCS	Oracle Real Application Clusters (Oracle RAC) includes the following features:  All of the features included with Oracle RAC One Note: Real Application Clusters scaling to multiple servers: Connection Load Balancing Fast Connection Failover Hot Cluster Failover	



Table 1-3 (Cont.) Oracle Database Options and Their Permitted Features

Option	Availability	Included Features															
Oracle Real Application Festing	Extra cost option: EE, EE-Exa Included option: PE,	Oracle Real Application Testing includes the following features: Database Replay, SQL Performance Analyzer (SPA), and Database Consolidation Workbench.															
	DBCS EE, DBCS	Database Replay															
	EE-HP, DBCS EE- EP, ExaCS	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.															
		<ul> <li>Use of Capture and Replay ASH Analytics Reports, Compare Period ADDM Reports, and Replay Compare Period Reports also requires an Oracle Diagnostic Pack license.</li> </ul>															
		<ul> <li>A 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 package. The use of the DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT() function also requires a license for Oracle Diagnostics Pack.</li> </ul>															
		SQL Performance Analyzer															
		A 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 Consolidation Workbench															
		<ul> <li>Database Consolidation Workbench, introduced in Oracle Enterprise Manager Cloud Control 13c, provides a data- driven and systematic approach to consolidation by eliminating guess work and human errors. Database Consolidation Workbench has three key capabilities: consolidation planning, database migration, and performance validation.</li> </ul>															
																	<ul> <li>Use of the consolidation planning feature of Database Consolidation Workbench requires an Oracle Database Diagnostics Pack license.</li> </ul>
		<ul> <li>Use of the database migration feature of Database Consolidation Workbench requires a Database Lifecycle Management Pack for Oracle Database license.</li> </ul>															
		<ul> <li>A Real Application Testing license permits you to access the following links on the <b>Database Consolidation</b> Workbench page in Oracle Enterprise Manager:</li> </ul>															
		<ul> <li>From the Enterprise menu, select Consolidation, then select Database Consolidation Workbench.</li> </ul>															
		<ul> <li>On the database target home page, select the Administration menu, then select Database Consolidation Workbench.</li> </ul>															
		<ul> <li>All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Consolidation Workbench.</li> </ul>															



Table 1-3 (Cont.) Oracle Database Options and Their Permitted Features

Option	Availability	Included Features													
Oracle Spatial and Graph	Extra cost option: EE, EE-Exa	Oracle Spatial and Graph includes the following features: Geospatial Data Features and Graph Database Features.													
	Included option: PE,	Geospatial Data Features													
	Note), DBCS EE-	<ul> <li>SPATIAL_VECTOR_ACCELERATION to significantly improve 2 and 3D spatial vector query performance</li> </ul>													
	HP, DBCS EE-EP, ExaCS	<ul> <li>Classes in packages other than the oracle.spatial.geometry (sdoapi.jar) and oracle.spatial.util (sdoutil.jar) packages of the Spatial Java API</li> </ul>													
		Linear Referencing System (LRS) support													
		<ul> <li>GeoRaster Storage, Indexing, and Querying</li> </ul>													
		Network Data Model													
		Topology Data Model													
		<ul> <li>Spatial analysis and mining subprograms (SDO_SAM package)</li> </ul>													
		Spatial Routing Engine													
		Geocoding Engine													
		<ul> <li>Spatial Web Services including OpenLS support, includir support for geocoding, mapping, business directory (Yellow Pages), and driving directions (routing) services, Web feature service (WFS) support (SDO_WFS_PROCESS and SDO_WFS_LOCK packages), and Catalog services for the Web (CSW) support (SDO_CSW_PROCESS package)</li> <li>3-D Geometry, Surface, Triangulated irregular network (TIN), and Point Cloud Storage, Indexing, and Querying</li> </ul>													
		•	• GeoJSON												
		Property Graph													
		Graph Database Features													
		The graph database features include two graph models:													
															A Network Data Model (NDM) graph to model and analyz link-node graphs to represent physical and logical networks used in transportation, utilities, and telco. Its features include:
		<ul> <li>Java APIs to perform analysis in memory</li> <li>Numerous graph analysis functions including shortes path, within cost, nearest neighbors, traveling salesman, spanning tree, and more</li> </ul>													
			<ul> <li>Explicit storage and connectivity of the graph with lin and node-level attributes</li> </ul>												
		<ul> <li>Support for directed and undirected graphs with or without cost</li> </ul>													
		<ul> <li>An RDF Semantic Graph to model and analyze data represented as triples for social network, linked data, and other semantic applications. Its features include:</li> </ul>													
		<ul> <li>Graph relationships represented as triples in compressed, partitioned tables</li> </ul>													
		<ul> <li>Indexing, querying, and ontology management</li> <li>RDFS, OWL, and user-defined inferencing (parallel, batch, and incremental)</li> </ul>													



Table 1-3 (Cont.) Oracle Database Options and Their Permitted Features

Option	Availability	Included Features
		<ul> <li>Support for SPARQL 1.1 and mixed SPARQL and SQL queries</li> <li>Enhanced Open Source Tools including Jena,</li> </ul>
		Sesame, Joseki Web Services  Note: You must have also have a license for the Oracle Partitioning option in order to use the RDF Semantic Graph features.
		<b>Note:</b> Oracle Spatial and Graph is an included option in <b>DBCS EE</b> only if the Database Cloud Service instance is being used to support an Oracle Cloud deployment of an Oracle Applications Unlimited application.
Oracle TimesTen Application-Tier Database	Extra cost option: EE, EE-Exa	Oracle TimesTen Application-Tier Database Cache includes the following features:
Cache	Included option: <b>PE</b>	<ul> <li>Data access using PL/SQL, JDBC, ODBC, ttClasses, OCI, and Pro*C/C++ interfaces</li> </ul>
		<ul><li>Transaction Log API (XLA) for change notification</li><li>Multi-node Cache Grid</li></ul>
		<ul> <li>Automatic data synchronization with the Oracle database</li> <li>Transactional replication between the in-memory cache databases</li> </ul>
		Automated failure detection and database failovers
		TimesTen Extension for Oracle SQL Developer     TimesTen Plan in fan Oracle Extension Management
		TimesTen Plug-in for Oracle Enterprise Manager

### 1.2.4 Oracle Management Packs and Their Permitted Features

Table 1-4 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 1-4 Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features												
Dracle Cloud Management	Extra cost pack:	Features:												
Pack for Oracle Database	EE, EE-Exa Included pack: DBCS EE-HP,	Oracle Cloud Management Pack for Oracle Database includes the following features:												
	DBCS EE-EP, ExaCS	<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</li> </ul>												
		configure Enterprise Manager Cloud Control 12c in under a minute.												
		<ul> <li>Pluggable Database-as-a-Service (PDBaaS) providing self service provisioning on a pool of multitenant container databases (CDBs).</li> </ul>												
		<ul> <li>Support shared server, shared cluster, and shared databas (Schema-as-a-Service) deployment models</li> </ul>												
		<ul> <li>Virtual assembly provisioning. For example, if there is an assembly topology of three VMs (two WebLogic Server- managed servers and one database), you will need both packs to cover the respective tiers.</li> </ul>												
		<ul> <li>Snap Clone, a fast, storage efficient way of cloning Oracle databases</li> </ul>												
		<ul> <li>Full clones using RMAN backups</li> </ul>												
		<ul> <li>Role based access and resource control through quotas and retirement policies</li> </ul>												
		<ul> <li>Schedule- and performance-based resource management policies</li> </ul>												
		<ul> <li>Metering and chargeback based on fixed cost, utilization metrics and configuration parameters of the database</li> </ul>												
		<ul> <li>Programmatic access to the Self-Service Portal</li> </ul>												
		Blueprint driven orchestration of cloud operations												
		Prerequisites:												
		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 link requires a license for Oracle Cloud Management Pack for Orac Database.
						Starting on the Enterprise Summary home page, click the <b>Enterprise</b> menu. Select:								
									Cloud, then Infrastructure Home					
										<ul> <li>Cloud, then Infrastructure Request Dashboard</li> </ul>				
					Cloud, then Infrastructure Policies									
		Cloud, then Middleware and Database Home												
		<ul> <li>Cloud, then Middleware and Database Request Dashboard</li> </ul>												
		Cloud, then Self Service Portal												
		Cloud, then Service Instances												
		Chargeback     Provisioning and Patching, then Patchess Provisioning												
		<ul> <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</li> </ul>												



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

Create New Pluggable Databases. Click Launch, and from Pluggable Database Creation Options, select Clone an Existing PDB -> Snap Clone.

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



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
		• get_pools
		<ul> <li>get_service_template</li> </ul>
		<ul> <li>list_charge_item_candidates</li> </ul>
		<ul><li>remove_pool_members</li></ul>
		• update_dbaas_quota
		<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
		Views starting with EMCT\$CBA
		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
		Charge Summary Report
		Usage Trend Report
		Usage Summary Report
		Also, any report created using the "create-like" feature of BI publisher referring the preceding reports, falls under this license



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
Oracle Data Masking and Subsetting Pack	Extra cost pack: EE, EE-Exa Included pack: DBCS EE, DBCS	Features:
		Oracle Data Masking and Subsetting Pack includes the following features:
		Application Data Modeling
	EE-HP, DBCS EE-	Data Masking Formats Library
	EP, ExaCS	Data Masking Definitions
		Data Subsetting Definitions
		<ul> <li>Application Data Modeling, Data Masking and Subsetting Enterprise Manager Command Line Interface (CLI) verbs</li> </ul>
		<ul> <li>Application Data Modeling accelerator for select versions of Oracle E-Business Suite</li> </ul>
		<ul> <li>Application Data Modeling accelerator for select versions of Oracle Fusion Applications</li> </ul>
		<ul> <li>Data Masking templates for select versions of Oracle Fusion Applications</li> </ul>
		<ul> <li>Data Masking templates for select versions of Oracle E- Business Suite</li> </ul>
		Oracle Data Masking and Subsetting Pack includes the following restricted-use licenses:
		Database Gateway for APPC
		Database Gateway for DRDA
		Database Gateway for Informix
		Database Gateway for SQLServer
		<ul> <li>Database Gateway for Sybase</li> </ul>
		<ul> <li>Database Gateway for Teradata</li> </ul>
		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 for non-Oracle databases, 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 for:
		The source database server, i.e., the databases from which the data originates.
		<ol><li>The staging database server on which masking and subsetting operations are executed.</li></ol>
		Notes:
		<ol> <li>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 Databases.</li> </ol>
		<ol><li>Application Data Modeling was previously called Data Discovery and Modeling.</li></ol>
		Licensed Links:



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
		All features, functions, links, buttons, and drill-downs on these Oracle Enterprise Manager menus are licensed as part of the Oracle Data Masking and Subsetting Pack.
		Starting on the Enterprise Summary home page, click the <b>Enterprise</b> menu, then <b>Quality Management</b> , then select:
		Application Data Modeling
		<ul> <li>Data Masking Definitions</li> </ul>
		<ul> <li>Data Masking Formats</li> </ul>
		<ul> <li>Data Subset Definitions</li> </ul>
		From the Oracle database or cluster database target home page, click the <b>Security</b> menu, then select:
		Application Data Modeling
		Data Masking Definitions
		Data Subsetting



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

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



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

### Management Pack Availability In

### **Included Features**

The init.ora parameter ENABLE\_DDL\_LOGGING is licensed as part of the Database Lifecycle Management Pack when set to TRUE. When set to TRUE, the database reports schema changes in real time into the database alert log under the message group schema ddl. The default setting is FALSE.

### **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 the Database Lifecycle Management Pack.
- 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 the Database Lifecycle Management Pack.
- 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 the Database Lifecycle Management Pack.

#### **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 the Database Lifecycle Management Pack.
- 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 the Database Lifecycle Management Pack.

# 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 the Database Lifecycle Management Pack.

#### Licensed Links - RAC Scale Out and Scale Back

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



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

- 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 the Database Lifecycle Management Pack.
- 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
   the Database Lifecycle Management Pack.
- 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 the Database Lifecycle Management Pack.

### 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
the Database Lifecycle Management Pack.

### 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 the Database Lifecycle Management Pack.

#### **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 the Database Lifecycle Management Pack.
- 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 the Database
     Lifecycle Management Pack.

**Licensed Links - Configuration Search** 



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

### Management Pack Availability

### **Included 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, then Configuration and Search. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack.

### **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 the Database Lifecycle Management Pack.

### **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 the Database Lifecycle Management Pack.

#### **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 the Database Lifecycle Management Pack.

### **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 the Database Lifecycle Management Pack.
- 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 the Database Lifecycle Management Pack.

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



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

- drop-down, Used By is licensed as part of the Database Lifecycle Management Pack.
- 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 the Database
   Lifecycle Management Pack.

### 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 the Database Lifecycle Management Pack.

### **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 the 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 the Database Lifecycle Management Pack.
- 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 the Database Lifecycle Management Pack.

### **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



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

menu are licensed as part of the Database Lifecycle Management Pack.

- 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 the Database Lifecycle Management Pack.

### 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 the Database Lifecycle
   Management Pack.
- 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 the Database Lifecycle Management Pack.

#### 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 the Database Lifecycle Management Pack.
- 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 the Database Lifecycle Management Pack.

### 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 the Database Lifecycle Management Pack.
- If the Target Home Page is accessed directly or by other paths:



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

#### Management Pack Availability Included Features

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 the Database Lifecycle Management Pack.

## 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 the Database Lifecycle Management Pack.

#### Licensed Reports:

The following reports are part of the 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 the Database Lifecycle Management Pack:

- 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 the Database Lifecycle Management Pack:

- 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



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
		export_compliance_group
		<ul> <li>export_compliance_standard_rule</li> </ul>
		<ul><li>export_facet</li></ul>
		<ul><li>export_standard</li></ul>
		<ul> <li>fix_compliance_state</li> </ul>
		• get_config_searches
		<ul><li>get_config_templates</li></ul>
		• get_executions
		• get_instance_data
		• get_instance_status
		• get_instances
		<ul><li>get_oms_config_property</li></ul>
		<ul><li>get_procedure_types</li></ul>
		• get_procedure_xml
		• get_procedures
		• get_retry_argument
		• get_saved_configs
		• ignore_instance
		<ul> <li>import_compliance_object</li> </ul>
		<ul> <li>list_oms_config_properties</li> </ul>
		<ul> <li>remove_cs_target_association</li> </ul>
		<ul> <li>reschedule_instance</li> </ul>
		<ul><li>resume_instance</li></ul>
		<ul><li>run_config_search</li></ul>
		• save_procedure
		<ul> <li>set_config_history_retention_period</li> </ul>
		• stop_instance
		<ul><li>submit_procedure</li></ul>
		<ul> <li>suspend_instance</li> </ul>
		<ul><li>update_and_retry_step</li></ul>
		<ul> <li>update_procedure_input</li> </ul>
		• upgrade_database
		Licensed Repository Views – Compliance Views:
		The following compliance views within the repository schema a licensed under Oracle Database Lifecycle Management Pack
		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
		<ul> <li>MGMT\$CS_ASM_DISKGRP_SETTINGS</li> </ul>
		• MGMT\$CS_DB_CONTROL_FILE_COUNT
		• MGMT\$CS_DB_INIT_PARAMS
		MCMTCCC DD DDC IN CYCTEM

• MGMT\$CS\_DB\_RBS\_IN\_SYSTEM



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
		• MGMT\$CS_DB_REC_SEG_SETTINGS
		• MGMT\$CS_DB_REC_TS_SETTINGS
		• MGMT\$CS_DB_REC_USER_SETTINGS
		<ul> <li>MGMT\$CS_DB_REDO_LOG_COUNT</li> </ul>
		MGMT\$CS_DB_REDO_LOGS
		<ul> <li>MGMT\$CS_DB_TABLESPACES</li> </ul>
		<ul> <li>MGMT\$CS_DB_TBSP_SEGSPACE_MGMT</li> </ul>
		• MGMT\$CS_EVAL_SUMMARY
		• MGMT\$CS_FEATURE_USAGE
		<ul> <li>MGMT\$CS_GROUP_EVAL_SUMMARY</li> </ul>
		<ul> <li>MGMT\$CS_GROUP_KEYWORD</li> </ul>
		• 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
		<ul> <li>MGMT\$CS_TGT_ASSOC_TXF_REQ</li> </ul>
		• MGMT\$CSG_HIERARCHY
		• MGMT\$CSG_SUBGROUP
		• MGMT\$CSR_CURRENT_VIOLATION
		<ul> <li>MGMT\$CSR_TARGET_ASSOC</li> </ul>
		• 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 Lifecycl 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:
		The following patching views within the repository schema are licensed under Oracle Database Lifecycle Management Pack fo

Oracle Database:



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

lanagement Pack	Availability	Included Features
		• 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 schem 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
		• GC\$ECM_SAVED_CONFIG_SNAPSHOTS
		• GC\$ECM_SAVED_CONFIG_TARGETS
		• GC\$ECM_SAVED_CONFIG_TARGETS • GC\$ECM_SAVED_TARGET_SNAPSHOTS
		• MGMT\$CCS_DATA



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

lanagement Pack	Availability	Included Features
		MGMT\$CCS_DATA_SOURCE_VISIBLE
		• MGMT\$CCS_DATA_VISIBLE
		• MGMT\$DB_CONTROLFILES
		• MGMT\$DB_DATAFILES
		<ul> <li>MGMT\$DB_DBNINSTANCEINFO</li> </ul>
		• MGMT\$DB_FEATUREUSAGE
		• MGMT\$DB_INIT_PARAMS
		• MGMT\$DB_LICENSE
		• MGMT\$DB_OPTIONS
		• MGMT\$DB_REDOLOGS
		<ul> <li>MGMT\$DB_ROLLBACK_SEGS</li> </ul>
		• 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
		<ul> <li>MGMT\$ECM_CMP_RPT_CCS_DS_DTLS</li> </ul>
		MGMT\$ECM_CMP_RPT_CCS_PD_ALL
		<ul> <li>MGMT\$ECM_CMP_RPT_CCS_PD_DIFFS</li> </ul>
		<ul> <li>MGMT\$ECM_CMP_RPT_CI_DIFFS</li> </ul>
		<ul> <li>MGMT\$ECM_CMP_VISIBLE_CONFIGS</li> </ul>
		• MGMT\$ECM_CURRENT_SNAPSHOTS
		• MGMT\$ECM_VISIBLE_SNAPSHOTS
		• MGMT\$SERVICETAG_INSTANCES
		<ul> <li>MGMT\$SERVICETAG_REGISTRY</li> </ul>
		<ul> <li>MGMT\$UNPATCHABLE_DB_TARGETS</li> </ul>
		Licensed Repository Views – Oracle Home Patching View
		The following Oracle home patching views within the reposito 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
		• 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



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

**Availability** 

**Management Pack** 

- MGMT\$OH\_INV\_SUMMARY
- MGMT\$OH PATCH

**Included Features** 

- 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\$ESA\_ALL\_PRIVS\_REPORT
- MGMT\$CSA\_COLLECTIONS
- MGMT\$CSA\_FAILED
- MGMT\$CSA\_HOST\_COOKIES
- 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



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
		MGMT\$CSA_HOST_OS_PROPERTIES
		• MGMT\$CSA_HOST_RULES
		• MGMT\$CSA_HOST_SW
		• MGMT\$ECM_CONFIG_HISTORY



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
Oracle Diagnostics Pack	Extra cost pack: EE, EE-Exa	Features:
		Oracle Diagnostics Pack includes the following features:
	Included pack: DBCS EE, DBCS EE-HP, DBCS EE-EP, ExaCS	<ul> <li>Performance monitoring and diagnostics (database and host)</li> </ul>
		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
		Exadata Cell Grid Administration
		Exadata Cell Grid Performance
		Exadata Cell Group Health Overview page
		Exadata Resource Utilization
		<ul> <li>Blackouts</li> </ul>
		<ul> <li>Notifications</li> </ul>
		Metric and Alert/Event history
		User-Defined Metrics and Metric Extensions
		Management Connectors
		Dynamic metric baselines and Adaptive metric threshold:
		Monitoring templates and Template Collections
		Replay Compare Period Report
		<ul> <li>Supporting functionality to perform per stream bottleneck detection and per component top wait event analysis</li> </ul>
		In order to use the features listed above, you must purchase licenses for Oracle Diagnostics Pack. A new initialization
		parameter, CONTROL_MANAGEMENT_PACK_ACCESS, controls acce to Oracle Diagnostics Pack and Oracle Tuning Pack. This parameter can be set to one of three values:
		<ul> <li>DIAGNOSTIC+TUNING: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is enabled in the database serv</li> </ul>
		<ul> <li>DIAGNOSTIC: Only Oracle Diagnostics Pack functionality i enabled in the server.</li> </ul>
		• 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, Desktop 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 <b>Setup</b> link on the top right-hand part of the Enterprise Manager Home page.
		<ul> <li>When you click the Setup link, the navigation bar contain the Management Pack Access link. Click this link.</li> </ul>
		This will take you to the <b>Management Pack Access</b> pag which allows you to grant and remove access from all the management packs.



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

#### Management Pack Availability Included 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, awrgrpti.sql, awrgrpti.sql,



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

#### **Management Pack**

#### **Availability**

#### **Included Features**

awrgdrpt.sql, 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\$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



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
Management Pack  Oracle Tuning Pack	Extra cost pack: EE, EE-Exa Included pack: DBCS EE, DBCS EE-HP, DBCS EE-EP, ExaCS	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
		<ul> <li>enabled in the server.</li> <li>NONE: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server.</li> <li>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.</li> </ul>
		Prerequisites:
		Oracle Tuning Pack requires Oracle Diagnostics Pack.
		Licensed Links:
		To determine which links in Enterprise Manager are part of

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 license.

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

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



Table 1-4 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
		DBMS_ADVISOR, when the value of the advisor_name     parameter is either SQL Tuning Advisor or SQL Access Advisor.
		• DBMS_AUTO_SQLTUNE
		• DBMS_PERF
		• DBMS_SQL_MONITOR
		<ul> <li>DBMS_SQLTUNE (See Note)</li> </ul>
		• V\$SQL_MONITOR
		• V\$SQL_PLAN_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 Oracle Database Enterprise Edition on-premises, then you can use certain subprograms of the DBMS_SQLTUNE package even if you do not have an Oracle Tuning Pack license. Refer to SQL Tuning Sets for more information.

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

Oracle provides the script options\_packs\_usage\_statistics.sql, which enables you to check Oracle Database option, Oracle management pack, and feature 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/CSP/main/article?cmd=show&type=NOT&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://www.oracle.com/us/corporate/license-management-services/index.html to understand your license requirements.

# 1.3 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.



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 the 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 Encryption - Not available (use Oracle Transparent Data Encryption, part of the Oracle Advanced Security option*)</li> <li>ACFS Replication - Not available (use Oracle Data Guard*)</li> <li>ACFS Security - Not available (use Oracle Database Vault*)</li> <li>ACFS Snapshot - Requires Oracle Database Enterprise Edition*</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, which may include Oracle Linux or Oracle Solaris, that is also under Oracle support.
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 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.



#### Feature / Option Licensing Information

#### Oracle Real Application Clusters (Oracle RAC)

The following licensing information applies when using Oracle Real Application Clusters in a clustered server environment with Oracle Database Standard Edition 2:

- You must use Oracle Clusterware. Third-party clusterware management solutions are not supported.
- Oracle Automatic Storage Management 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. Refer to Oracle Automatic Storage Management Administrator's Guide for a comprehensive list of all database file types.
- ASM Cluster File System (ACFS) or a local OS file system must be used to store all nondatabase files. No Oracle-maintained copies of any non-database files can exist in any other locations, with the following exceptions:
  - 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.
  - RMAN backups of files can reside on either a local or network mounted file system.
- 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.

#### Oracle Real Application Testing

The full functionality of Oracle Real Application Testing is available only on Oracle Database 11*g* 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 10*g*.

The functionality available on Oracle9i 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 Release1), Oracle Database 11g is needed to remotely execute SQL on the target database (that is, Oracle Database 10g Release 2). Real Application Testing licensing is required for both systems, Oracle Database 10g Release 2 and Oracle Database 11g.

#### Oracle Secure Backup

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

Oracle Secure Backup Cloud Module

- 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.



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 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. Strong authentication services (Kerberos, PKI, and RADIUS) and network encryption (native network encryption and SSL/TLS) are no longer part of Oracle Advanced Security and are available in all licensed editions of all supported releases of the 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.

### 1.4 Restricted Use Licenses

Feature / Option Licensing Information

#### Any Oracle Advanced Security licenses purchased on or before January 31, 2004, have Oracle Advanced Security

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 full-use license for Oracle Data Masking and Subsetting Pack.

Oracle Application Server Containers for J2EE

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, Application Express, and Warehouse Builder, and may not be used or deployed for other purposes



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 Models (previously called Data Discovery and Modeling)</li> <li>Sensitive Column Types and Sensitive Data Discovery</li> <li>Application Accelerators</li> </ul>
	If you want to use the Oracle Enterprise Management features listed above not solely for the purposes of Oracle Database Vault, then you must purchase a full-use license for Oracle Data Masking and Subsetting Pack.
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	A restricted use license for Oracle Identity Management Directory Services Plus component Oracle Internet Directory (OID) is included with all editions (except for Oracle Database Express Edition) if users use the Directory Naming feature to configure Oracle Net Services. OID 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></ul>
	<ul> <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.
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:  • Embedded SQL-style interfaces: Pro*C/C++, Pro*COBOL, Pro*Fortran, SQL*Module for
	<ul> <li>Embedded SQL-style Interfaces: Pro^C/C++, Pro^COBOL, Pro^Fortran, SQL^Module for Ada, SQLJ</li> <li>Utilities to generate host-language bindings from database schemas: Object Type Translator and JPub</li> </ul>



Feature / Option	Licensing Information
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	Oracle Secure Backup is a centralized tape backup management solution that is suited for distributed environments consisting of multiple servers with advanced data protection requirements such as encryption, rotation of tapes between multiple locations, and protection of NAS devices. A restricted use license for Oracle Secure Backup is included with all Oracle Database editions. Refer to the <i>Oracle Secure Backup Licensing Information</i> for additional information.
Oracle Secure Backup Cloud Module	The Oracle Secure Backup Cloud Module provides Oracle Database backup to cloud storage using Recovery Manager (RMAN). A restricted use license for the Oracle Secure Backup Cloud Module is included with all Oracle Database editions. The Oracle Secure Backup Cloud Module can be used as a complement or replacement for Oracle Secure Backup, Oracle Secure Backup Express, or third-party media-management products.
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.

# 1.5 Third-Party Notices and/or Licenses

### 1.5.1 Commercial Software

Commercial software products or components distributed in Oracle Database 12c Release 2 (12.2) are identified in the following table along with the applicable licensing information.

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	© 2003 - 2010 CKSource - Frederico Knabben. All rights reserved. This product is licensed under the Apache 2.0 license agreement.
MapInfo Corp.	Projections Code	See The Apache Software License, Version 2.0.  Portions of this software Copyright 1992-2000, MapInfo Corporation, ALL RIGHTS RESERVED.
Microsoft	Microsoft Visual Studio 2010 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 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.



Provider	Component(s)	Licensing Information
RSA	Micro Edition Suite (MES)	This product includes code licensed from RSA Data Security. See Figure 1-1.
Sibental, Inc.	AnyChart AnyChart Flash Chart Component AnyGantt AnyMap	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

Figure 1-1 RSA Secure Logo



### 1.5.2 Open Source or Other Separately Licensed Software

Required notices for open source or other separately licensed software products or components distributed in Oracle Database 12c Release 2 (12.2) 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.



Provider	Component(s)	Licensing Information
Provider  ACE - Open Source Community	Component(s)  ACE Code Editor for the Web	<ul> <li>Copyright (c) 2010, Ajax.org B.V. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</li> <li>Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <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> <li>Neither the name of Ajax.org B.V. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</li> <li>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</li> </ul>
		·
		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.



Provider	Component(s)	Licensing Information
ANTLR	Antlr	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:
		Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  Padiatributions in biometric products the plant.
		<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.



Provider	Component(s)	Licensing Information
ANTLR	Antlr	This product was build using ANTLR, which was provided to Oracle under the following terms:
		Copyright (c) 2010 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> <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</li> </ul>
		with the distribution.
		<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>
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A

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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

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

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#### qdal/frmts/hdf4/hdf-eos/\*

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#### gdal/frmts/pcraster/libcsf

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#### port/cpl\_minizip\*

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#### gdal/ogr/ogrsf frmts/dxf/intronurbs.cpp

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