# Oracle® Database Database Licensing Information User Manual





Oracle Database Database Licensing Information User Manual, 19c

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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 19c.

# **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.

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### **Related Documents**

For more information, see these Oracle resources:

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

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

#### 1.1 Introduction

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

# 1.2 Oracle Database Offerings

Table 1-1 Oracle Database Offerings

Oracle Database Offering	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.



Table 1-1 (Cont.) Oracle Database Offerings

Oracle Database Offering	Offering Type	Abbreviated Name Used in this Guide	Description
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 Engineered Systems	On- Premises	EE-ES	Oracle Database Enterprise Edition software installed on an on-premises engineered system (Oracle Exadata Database Machine or Oracle Database Appliance).
			Includes all of the components of Oracle Database. You can further enhance this offering with the purchase of Oracle Database options and Oracle management packs.
			The licensing policies for EE-ES vary depending on whether it is installed on Oracle Exadata Database Machine or Oracle Database Appliance. Be sure to make note of these differences, which are documented in the subsequent sections of this guide.
Oracle Database Personal Edition	On- Premises	PE	Oracle Database Personal Edition supports single- user development and deployment environments that require full compatibility with Oracle Database Standard Edition 2 and Oracle Database Enterprise Edition.
			Includes all of the components that are included with Enterprise Edition, as well as all Oracle Database options, with the exception of the Oracle RAC One Node and Oracle Real Application Clusters options, which cannot be used with Personal Edition. Personal Edition is available on Linux and Windows platforms only. Oracle management packs cannot be used with Personal Edition.
Oracle 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.



Table 1-1 (Cont.) Oracle Database Offerings

Oracle Database Offering	Oracle Database Offering Offering Abbreviated Type Name Used i this Guide		Description
Oracle Database Exadata Cloud Service			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.
			The licensing policies for ExaCS also apply to Oracle Database Exadata Cloud at Customer.

#### See Also

- Oracle Database Options and Their Permitted Features
- Oracle Management Packs and Their Permitted Features

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

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

The tables are organized into the following functional categories:

- Consolidation Table 1-2
- Development Platform Table 1-3
- High Availability Table 1-4
- Integration Table 1-5
- Manageability Table 1-6
- Networking Table 1-7
- Performance Table 1-8
- Scalability Table 1-9
- Security Table 1-10
- Snapshots and Cloning Table 1-11
- Spatial and Graph Data Table 1-12
- VLDB, Data Warehousing, and Business Intelligence Table 1-13



Table 1-2 Consolidation

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Oracle Multitenant - # of PDBs	1	252	4096	1	1	4096	4096	4096	The number value in each column indicates the maximum number of pluggable databases (PDBs) that can be created for each offering.  • For all offerings, if you
									are not licensed for Oracle Multitenant, then the container database architecture is available in single-tenant mode, that is, with one user- created PDB, one user- created application root, and one user-created proxy PDB.  EE: Extra cost option; if you are licensed for Oracle Multitenant, then you can create up to 252 PDBs.  EE-ES: 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.
CDB Fleet Management	N	N	Υ	N	Y	Y	Υ	Υ	
PDB Snapshot Carousel	N	N	Υ	N	Υ	Υ	Υ	Y	
Refreshable PDB switchover	N	N	Υ	Υ	Υ	Υ	Υ	Υ	

**Table 1-3 Development Platform** 

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
SQLJ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Requires Oracle Programmer
Oracle Developer Tools for Visual Studio .NET	Y	Y	N/A	N/A	N/A	N/A	N/A	N/A	Windows only



Table 1-3 (Cont.) Development Platform

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
icrosoft Distributed ansaction oordinator support	Υ	Υ	N/A	N/A	N/A	N/A	N/A	N/A	Windows only
tive .NET Data ovider—ODP.NET	Υ	Y	N/A	N/A	N/A	N/A	N/A	N/A	Windows only
ET Stored ocedures	Υ	Υ	N/A	N/A	N/A	N/A	N/A	N/A	Windows only

Table 1-4 High Availability

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Application Continuity	N	Y	Y	N	N	N	Y	Y	EE and EE-ES: Requires the Oracle Active Data Guard option or the Oracle Real Application Clusters option
Oracle Sharding	N	Y	Y	N	Y	Y	Υ	Y	EE and EE-ES: No limit on the number of either primary shards or standby shards if every shard has an Oracle Active Data Guard, Oracle GoldenGate, or Oracle RAC license. Without an Oracle Active Data Guard, Oracle GoldenGate, or Oracle RAC license, use is limited to three primary shards, with basic Data Guard standbys.
									Authorized Cloud Environments, 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	Y	Υ	N	N	N	N	Υ	<b>EE</b> and <b>EE-ES</b> : Extra cost option
Oracle Data Guard —Redo Apply	N	Υ	Υ	N	Y	Y	Y	Υ	
Oracle Data Guard —Far Sync Standby	N	Y	Y	N	N	N	Υ	Υ	EE and EE-ES: Requires the Oracle Active Data Guard option



Table 1-4 (Cont.) High Availability

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Oracle Data Guard —SQL Apply	N	Υ	Y	N	Υ	Y	Υ	Υ	
Oracle Data Guard —Snapshot Standby	N	Υ	Y	N	Y	Υ	Υ	Y	
Oracle Data Guard —Real-Time Cascading Standbys	N	Y	Υ	N	N	N	Y	Υ	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Active Data Guard option
Oracle Data Guard —Automatic Correction of Non- logged Blocks at a Data Guard Standby Database	N	N	Y	N	Y	Y	Y	Y	
Oracle Active Data Guard	N	Y	Y	N	N	N	Y	Y	EE and EE-ES: Extra cost option  Authorized Cloud  Environments: Active Data Guard DML Redirection is not available
Rolling Upgrades— Patch Set, Database, and Operating System	N	Y	Y	N	Y	Υ	Υ	Υ	
Rolling Upgrade Using Active Data Guard	N	Y	Υ	N	N	N	Y	Υ	EE and EE-ES: Requires the Oracle Active Data Guard option
Online index rebuild	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Online table organization	N	Υ	Υ	N	Υ	Y	Υ	Υ	ALTER TABLE MOVE ONLINE operations
Online table redefinition	N	Y	Υ	N	Y	Y	Y	Υ	Using the DBMS_REDEFINITION package
Duplexed backup sets	N	Υ	Y	N	Υ	Υ	Υ	Υ	
Block change tracking for fast incremental backup	N	Y	Υ	N	N	N	Y	Υ	
Unused block compression in backups	N	Y	Υ	N	Υ	Υ	Υ	Υ	
Block-level media recovery	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Lost Write Protection	N	Υ	Y	N	Υ	Y	Υ	Υ	



Table 1-4 (Cont.) High Availability

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

Table 1-5 Integration

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE		DBCS EE-HP		ExaCS	Notes
Database Gateways	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Separate product license
Messaging Gateway	N	Υ	Υ	N	Υ	Υ	Υ	Υ	



Table 1-5 (Cont.) Integration

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

#### Table 1-6 Manageability

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



Table 1-6 (Cont.) Manageability

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	No	tes
SQL Plan Management	Y (See Notes)	Y	Y	Y (See Notes)	Y	Y	Y	Y	Sui plai stat SQ	2 and DBCS SE mmary: Only one SQL n baseline per SQL tement is allowed and L plan evolution is abled.
									SE	2 and DBCS SE Details:
									1.	SQL plan baselines can be created or captured using the following methods:
										<ul> <li>Auto capture         (OPTIMIZER_CAPT         URE_SQL_PLAN_BA         SELINE=TRUE)</li> <li>Manual loading         from the cursor         cache         (DBMS_SPM.LOAD_         PLANS_FROM         CURSOR_CACHE)</li> <li>Migration from         stored outlines         (DBMS_SPM.MIGRA         TE_STORED_OUTLI         NE)</li> <li>Import using         DBMS_SPM.UNPACK         _STGTAB_BASELIN         E</li> </ul>
									2.	All capture and creation methods store only one SQL plan baseline per SQL statement.
									3.	SQL plan baselines can be exported and imported using DBMS_SPM.CREATE_ST GTAB_BASELINE, DBMS_SPM.PACK_STGT AB_BASELINE, and DBMS_SPM.UNPACK_ST GTAB_BASELINE.
									4.	Unused SQL plan baselines are not autopurged.
									5.	Alternative SQL execution plans for SQL



Table 1-6 (Cont.) Manageability

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	No	tes
										statements are not added to the SQL plan history.
									6.	SQL plan baselines can be altered and dropped (DBMS_SPM.ALTER_SQL _PLAN_BASELINE and DBMS_SPM.DROP_SQL_ PLAN_BASELINE).
									7.	The following DBMS_SPM functions and procedures are not allowed: CONFIGURE, LOAD_PLANS_FROM_AW R, LOAD_PLANS_FROM_SQ LSET, and all functions and procedures associated with SQL plan evolution.



Table 1-6 (Cont.) Manageability

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
SQL Tuning Sets	N	Y	Y	N	Y	Y	Y	Y	EE and EE-ES: SQL Tuning Sets can also be accessed by way of database server APIs and command-line interfaces. Usage of any subprograms in the DBMS_SQLSET package to manage SQL Tuning Sets is part of the EE and EE-ES offerings. In addition, the following subprograms, part of the DBMS_SQLTUNE package, provide an older interface to manage SQL Tuning Sets and are also part of the EE and EE-ES offerings: ADD_SQLSET_REFERENCE, CAPTURE_CURSOR_CACHE_S QLSET, CREATE_SQLSET, CREATE_STGTAB_SQLSET, DELETE_SQLSET, DROP_SQLSET, PACK_STGTAB_SQLSET, REMOVE_SQLSET_REFERENC E, SELECT_CURSOR_CACHE, SELECT_SQLSET, SELECT_SQLSET, SELECT_SQLSET, UNPACK_STGTAB_SQLSET, UNPACK_STGTAB_SQLSET, UPDATE_SQLSET.
Rapid Home Provisioning	N	Y	Y	N/A	N/A	N/A	N/A	N/A	EE and EE-ES: When deployed across multiple clusters, requires Oracle Database Lifecycle Management Pack for Oracle Database on targets

Table 1-7 Networking

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE		DBCS EE-HP		ExaCS	Notes
Infiniband Support	N	Υ	Υ	N	N	N	N	Y	



Table 1-7 (Cont.) Networking

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Oracle Connection Manager	N	Y	Y	N	Y	Y	Y	Y	Available via a custom install of the Oracle Database client, usually installed on a separate machine or compute instance
Network Compression	N	Y	Υ	N	N	Υ	Y	Y	EE and EE-ES: Requires the Oracle Advanced Compression option

**Table 1-8 Performance** 

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Automatic Indexing	N	N	Υ	Y	Υ	Y	Y	Υ	<b>EE-ES</b> : Available on Exadata. Not available on Oracle Database Appliance.
SQL Quarantine	N	N	Υ	Y	Υ	Υ	Υ	Υ	<b>EE-ES</b> : Available on Exadata. Not available on Oracle Database Appliance.
Real-Time Statistics	N	N	Υ	Y	Υ	Υ	Υ	Y	<b>EE-ES</b> : Available on Exadata. Not available on Oracle Database Appliance.
High-Frequency Automatic Optimizer Statistics Collection	N	N	Υ	Y	Υ	Υ	Y	Y	<b>EE-ES</b> : Available on Exadata. Not available on Oracle Database Appliance.
Client Side Query Cache	N	Y	Υ	N	Υ	Υ	Υ	Υ	
Query Results Cache	N	Υ	Υ	N	Y	Y	Υ	Υ	
PL/SQL Function Result Cache	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Oracle TimesTen Application-Tier Database Cache	N	Y	Υ	N	N	N	N	N	EE and EE-ES: Extra cost option
Database Smart Flash Cache	N	Υ	Υ	N/A	N/A	N/A	N/A	N/A	<b>EE</b> : Solaris and Oracle Linux only
									<b>EE-ES</b> : Available on Oracle Database Appliance. Not available on Exadata
Support for Oracle Exadata Storage Server Software	N	N	Υ	N	N	N	N	Y	<b>EE-ES</b> : Available on Exadata. Not available on Oracle Database Appliance.
Adaptive Execution Plans	N	Υ	Υ	N	Υ	Υ	Υ	Υ	



Table 1-8 (Cont.) Performance

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



Table 1-8 (Cont.) Performance

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

#### Table 1-9 Scalability

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

Table 1-10 Security

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Column-Level Encryption	N	Y	Υ	N	N	Y	Y	Υ	EE and EE-ES: Requires the Oracle Advanced Security option
Tablespace Encryption	N	Y	Υ	Y	Υ	Υ	Υ	Υ	EE and EE-ES: Requires the Oracle Advanced Security option
Oracle Advanced Security	N	Υ	Υ	N	N	Y	Υ	Υ	EE and EE-ES: Extra cost option
Oracle Database Vault	N	Υ	Υ	N	N	Y	Υ	Υ	EE and EE-ES: Extra cost option
Oracle Label Security	N	Υ	Υ	N	N	Y	Υ	Υ	<b>EE</b> and <b>EE-ES</b> : Extra cost option



Table 1-10 (Cont.) Security

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

Table 1-11 Snapshots and Cloning

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP		ExaCS	Notes
Storage Snapshot Optimization	N	Y	Υ	N/A	N/A	N/A	N/A	N/A	EE and EE-ES: Requires the Oracle Advanced Compression option



Table 1-12 Spatial and Graph Data

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Oracle Spatial and Graph	N	Y	Υ	N	N	Υ	Υ	Y	EE and EE-ES: Extra cost option
Property Graph and RDF Graph Technologies (RDF/ OWL)	N	Υ	Y	N	N	Y	Y	Y	EE and EE-ES: Requires the Oracle Spatial and Graph option and the Oracle Partitioning option
Parallel spatial index builds	N	Υ	Υ	N	Y	Y	Υ	Υ	
Multimaster replication of SDO_GEOMETRY objects	N	Y	Y	N	Y	Y	Y	Y	EE and EE-ES: Single master/materialized view replication for SDO_GEOMETRY objects is supported
Partitioned spatial indexes	N	Y	Y	N	N	Υ	Υ	Υ	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Partitioning option

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

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Oracle Partitioning	N	Υ	Υ	N	N	Y	Υ	Υ	<b>EE</b> and <b>EE-ES</b> : Extra cost option
Oracle On-Line Analytical Processing (OLAP)	N	Y	Υ	N	N	Υ	Y	Υ	EE and EE-ES: Extra cost option
Oracle Advanced Analytics	N	Y	Υ	N	N	Y	Υ	Υ	EE and EE-ES: Extra cost option
Oracle Advanced Compression	N	Y	Υ	N	N	Y	Υ	Υ	EE and EE-ES: Extra cost option
Advanced Index Compression	N	Υ	Υ	N	N	Υ	Υ	Υ	EE and EE-ES: Requires the Oracle Advanced Compression option
Prefix Compression (also called Key Compression)	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Hybrid Columnar Compression	N	Υ	Υ	N	Υ	Y	Y	Y	<b>EE</b> : Requires ZFS, Axiom, or FS1 storage
Hybrid Columnar Compression Row- Level Locking	N	Y	Υ	N	N	N	N	Y	<b>EE</b> : Requires ZFS or FS1 storage, and the Oracle Advanced Compression option
									<b>EE-ES</b> : Requires the Oracle Advanced Compression option



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

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Exadata Flash Cache Compression	N	N	Y	N	N	N	N	Y	EE-ES: Available on Exadata and requires the Oracle Advanced Compression option. Not available on Oracle Database Appliance.
Heat Map	N	Υ	Y	N	N	Υ	Υ	Y	EE and EE-ES: Requires the Oracle Advanced Compression option or the Oracle Database In-Memory option
Automatic Data Optimization	N	Y	Y	N	N	Y	Y	Y	EE and EE-ES: Requires the Oracle Advanced Compression option or the Oracle Database In-Memory option
Basic Table Compression	N	Y	Υ	N	Υ	Υ	Υ	Υ	
Deferred Segment Creation	N	Y	Υ	N	Υ	Υ	Y	Υ	
Bitmapped index, bitmapped join index, and bitmap plan conversions	N	Υ	Y	N	Υ	Y	Y	Y	
Parallel query/DML	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Parallel statistics gathering	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Parallel index build/ scans	N	Y	Υ	N	Υ	Υ	Υ	Υ	
Parallel Data Pump Export/Import	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
In-memory Parallel Execution	N	Υ	Υ	N	Υ	Υ	Υ	Υ	
Parallel Statement Queuing	N	Y	Υ	N	Υ	Υ	Y	Υ	
Parallel capture and apply via XStream	N	Y	Υ	N	Y	Υ	Y	Υ	
Transportable tablespaces, including crossplatform and full transportable export and import	N	Y	Y	N	Y	Y	Y	Y	Import of transportable tablespaces supported into SE2
Summary management— Materialized View Query Rewrite	N	Υ	Y	N	Υ	Y	Υ	Υ	



# 1.4 Oracle Database Options and Their Permitted Features

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

Table 1-14 Oracle Database Options and Their Permitted Features

Option	Availability	Included Features
Oracle Active Data Guard	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-EP, ExaCS	<ul> <li>Oracle Active Data Guard includes the following features:</li> <li>Physical Standby with Real-time Query</li> <li>Fast Incremental Backup on Physical Standby</li> <li>Automatic Block Repair</li> <li>Active Data Guard Far Sync</li> <li>Global Data Services</li> <li>Real-Time Cascade</li> <li>Application Continuity</li> <li>Rolling Upgrade using Active Data Guard</li> <li>Active Data Guard DML Redirection (not available in Authorized Cloud Environments)</li> <li>In an Oracle Data Guard configuration:</li> <li>Oracle 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 Oracle Active Data Guard features, those standby databases do not require an Oracle Active Data Guard license.</li> <li>The container root (CDB\$Root) of the standby database may be opened read-only without requiring an Oracle Active Data Guard license is only required if any of the pluggable databases in the standby is</li> </ul>
Oracle Advanced Analytics	Extra cost option: EE, EE-ES 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 1-14 (Cont.) Oracle Database Options and Their Permitted Features

Option	Availability	Included Features
Oracle Advanced Compression	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS	<ul> <li>Oracle Advanced Compression includes the following features:</li> <li>Advanced Row Compression</li> <li>Advanced LOB Compression</li> <li>Advanced LOB Deduplication</li> <li>RMAN Backup Compression (RMAN DEFAULT COMPRESS does not require the Oracle Advanced Compression option)</li> <li>Data Pump Export Data Compression (COMPRESSION=METADATA_ONLY does not require the Oracle Advanced Compression option)</li> <li>Heat Map</li> <li>Automatic Data Optimization</li> <li>Data Guard Redo Transport Compression</li> <li>Advanced Network Compression</li> <li>Optimization for Flashback Data Archive History Tables</li> <li>Storage Snapshot Optimization</li> <li>Online Move Partition (to any compressed format)</li> <li>Exadata Flash Cache Compression (This feature can be enabled only on Exadata storage servers, and all database processors that access the Exadata storage servers must be licensed for Oracle Advanced Compression.)</li> <li>Advanced Index Compression</li> <li>Hybrid Columnar Compression Row-Level Locking (Requires Exadata, Oracle Database Appliance, Supercluster, ZFS, or FS1 storage)</li> </ul>
Oracle Advanced Security	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS	Oracle Advanced Security includes the following features: Transparent Data Encryption (TDE) for tablespaces and columns (including Oracle SecureFiles)



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

Option	Availability	Included Features
Oracle Database In-Memory  Oracle Database Vault	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-EP, ExaCS	Oracle Database In-Memory includes the following features:  In-Memory Column Store  In-Memory Column Cache on Storage Servers (Requires Exadata, Supercluster, or Exadata Cloud Service)  Fault Tolerant In-Memory Column Store (Requires Exadata, Supercluster, Oracle Database Appliance, or Exadata Cloud Service)  In-Memory Aggregation  Heat Map  Automatic Data Optimization  Oracle Database Vault includes the following features:  Separation of Duties  Realms  Command Rules  Trusted Paths  Oracle Database Vault includes special license rights for Oracle Label Security. Refer to Oracle Database Vault in "Special License Rights" for more information.
Oracle Label Security	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS	Oracle Database Vault includes a restricted use license for certain Oracle Enterprise Manager features. Refer to Oracle Database Vault in "Restricted Use Licenses" for more information.  Oracle Label Security includes the following features:  Label based access control (LBAC)  Multi-level security (MLS)  Label factors for Oracle Database Vault (Confidential, Sensitive)  User label authorizations (Confidential, Sensitive: PII)  Data labels (Sensitive: PII)  Oracle Label Security includes a restricted use license for certain Oracle Enterprise Manager features. Refer to Oracle Label Security In "Restricted Use Licenses" for more information.
Oracle Multitenant	Extra cost option: EE, EE-ES Included option: PE, 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-ES, 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 in "Restricted Use Licenses" for more information.
Oracle On-Line Analytical Processing (OLAP)	Extra cost option: EE, EE-ES Included option: PE, 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



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

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



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

Ontion	Availahility	Included Features											
Option  Oracle Real Application Testing	Extra cost option: EE, EE-ES Included option: PE, DBCS EE, DBCS EE-HP, DBCS EE-EP, ExaCS												
		SQL Performance Analyzer (SPA)											
		An Oracle Real Application Testing license permits you to access SQL Performance Analyzer functionality through Oracle Enterprise Manager, as well as through the following database server command-line API: DBMS_SQLPA package, which is part of the Oracle Real Application Testing option.											
		Database 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 Diagnostics Pack license.</li> </ul>
									<ul> <li>Use of the database migration feature of Database Consolidation Workbench requires an Oracle Database Lifecycle Management Pack for Oracle Database license.</li> </ul>				
		<ul> <li>An Oracle Real Application Testing license permits you to access the following links on the <b>Database Consolidation</b></li> <li>Workbench page in Oracle Enterprise Manager:</li> </ul>											
		<ul> <li>From the Enterprise menu, select Consolidation, then select Database Consolidation Workbench.</li> <li>On the database target home page, select the Administration menu, then select Database Consolidation Workbench.</li> <li>All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Consolidation Workbench.</li> </ul>											



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

Option	Availability	Included Features
Oracle Spatial and Graph	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS	Oracle Spatial and Graph includes the following features: Geospatial Data Features Graph Database Features Geospatial Data Features  SPATIAL_VECTOR_ACCELERATION to significantly improve 2D and 3D spatial vector query performance  Classes in packages other than the oracle.spatial.geometry (sdoapi.jar) and oracle.spatial.util (sdoutil.jar) packages of the Spatial Java API  Linear Referencing System (LRS) support GeoRaster Storage, Indexing, and Querying Network Data Model Topology Data Model Spatial analysis and mining subprograms (SDO_SAM package) Spatial Routing Engine Geocoding Engine Geocoding Engine Spatial Web Services including OpenLS support, including 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)  3-D Geometry, Surface, Triangulated irregular network (TIN), and Point Cloud Storage, Indexing, and Querying GeoJSON Property Graph Graph Database Features Graph Database Features Graph database features include the following models:  A property graph to model and analyze relationships found in social networks, cyber security, utilities and telecommunications, life sciences and clinical data, and knowledge networks. Typical graph analyses encompass graph traversal, recommendations, finding communities and influencers, and pattern matching. Its features include:  A scalable graph database PGQL, a SQL-like declarative query language for the Property Graph data model Data import from relational, CSV, GraphML, GraphSON, GML sources Parallel bulk load and export of property graph data in Oracle-defined flat files format  A parallel, in-memory graph analytics engine with over 40 built-in analytics that include ranking, centrality, recommender, community detection, path finding Developer-based APIs based upon Tinkerpop Blueprints, and Java graph APIs Text search and query through integration with Oracle Te



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

Option	Availability	Included Features
		<ul> <li>SQL-based Property Graph query and analytics for several popular property graph operations in addition to the analytical functions offered by the in-memory analyst</li> <li>Scripting languages support for Groovy and Python</li> <li>Manageability through a Groovy-based console to execute Java and Tinkerpop Gremlin APIs</li> <li>A Network Data Model (NDM) graph to model and analyze link-node graphs to represent physical and logical networks used in transportation, utilities, and telco. Its features include:         <ul> <li>A storage model to represent graphs and networks in link and node tables</li> <li>Java APIs to perform analysis in memory</li> <li>Numerous graph analysis functions including shortest path, within cost, nearest neighbors, traveling salesman, spanning tree, and more</li> <li>Explicit storage and connectivity of the graph with link- and node-level attributes</li> <li>Support for directed and undirected graphs with or without cost</li> </ul> </li> <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:         <ul> <li>Graph relationships represented as triples in compressed, partitioned tables</li> <li>Indexing, querying, and ontology management</li> <li>RDFS, OWL, and user-defined inferencing (parallel, batch, and incremental)</li> <li>Support for SPARQL 1.1 and mixed SPARQL and SQL queries</li> <li>Enhanced Open Source Tools including Jena, Sesame, Joseki Web Services</li> </ul> </li> <li>Note: You must have also have a license for the Oracle Partitioning option in order to use the property graph schema feature and RDF Semantic Graph features. Oracle Partitioning is optional if the property graph two-tables schema feature is used.</li> </ul>
Oracle TimesTen Application-Tier Database Cache	EE-ES	Oracle TimesTen Application-Tier Database Cache includes the following features:
	Included option: <b>PE</b>	<ul> <li>Data access using PL/SQL, JDBC, ODBC, ttClasses, OCI, and Pro*C/C++ interfaces</li> </ul>
		Transaction Log API (XLA) for change notification
		Multi-node Cache Grid  Automobile data surphyrenization with the Oracle database
		<ul> <li>Automatic data synchronization with the Oracle database</li> <li>Transactional replication between the in-memory cache</li> </ul>
		databases
		Automated failure detection and database failovers
		TimesTen Extension for Oracle SQL Developer     TimesTen Plus in for Oracle Enterprise Manager
		TimesTen Plug-in for Oracle Enterprise Manager



# 1.5 Oracle Management Packs and Their Permitted Features

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



Table 1-15 Oracle Management Packs and Their Permitted Features

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



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

#### Management Pack Availability Included Features

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

- Cloud. Select Infrastructure
- Cloud. Select Database
- 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

**Provisioning and Patching, then Storage Registration** 

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

#### **Licensed APIs:**

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

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

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

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

- add\_pool\_members
- create\_charge\_item
- · create\_dbaas\_quota
- create dbprofile
- create\_pool
- create\_service\_template
- delete\_charge\_item
- delete\_dbaas\_quota
- delete\_pool
- delete\_service\_template
- get dbaas quota
- get dbaas request settings
- get metering data
- get\_pool\_capacity\_data
- get\_pool\_capacity\_summary\_data
- get\_pool\_constraints
- get\_pool\_criteria
- get\_pool\_detail
- get\_pool\_instance\_data
- get\_pool\_target\_type
- get\_pools



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

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



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

Management Pack	Availability	Included Features
Oracle Data Masking and Subsetting Pack	Extra cost pack: EE, EE-ES Included pack: DBCS EE, DBCS EE-HP, DBCS EE-EP, ExaCS	Features:
		Oracle Data Masking and Subsetting Pack includes the following features:
		<ul><li>Application Data Modeling</li><li>Data Masking Formats Library</li></ul>
		Data Masking Definitions
		Data Subsetting Definitions
		<ul> <li>Application Data Modeling, Data Masking and Subsetting Enterprise Manager Command Line Interface (CLI) verbs</li> <li>Application Data Modeling accelerator for select versions of</li> </ul>
		Oracle E-Business Suite  • Application Data Modeling accelerator for select versions of
		Oracle Fusion Applications  Data Masking templates for select versions of Oracle Fusion
		<ul> <li>Applications</li> <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
		<ul> <li>Database Gateway for DRDA</li> </ul>
		Database Gateway for Informix
		<ul> <li>Database Gateway for SQLServer</li> </ul>
		<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 only for the source database server, i.e., the databases from which the data originates.
		There is no requirement to license the pack for the staging databas server on which masking and subsetting operations are executed, for copies made of the masked database.
		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:
		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.



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

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



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

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

**Licensed Parameters:** 

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

of Oracle Database Lifecycle Management Pack for Oracle



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

Database 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:**

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

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

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

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

### **Licensed Links - Database Upgrade:**

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

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

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

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

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



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

### 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:

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

#### **Licensed Links - Database Patching**

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

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

### Licensed Links - Offline Patching

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

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

### **Licensed Links - Configuration Instance Browser**

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

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



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

### Management Pack Availability

### **Included Features**

as part of Oracle Database Lifecycle Management Pack for Oracle Database.

#### Licensed Links - Configuration Search

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

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

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

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

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

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

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

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

### **Licensed Links - Configuration Save**

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

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

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

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

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



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

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

### Licensed Links - Configuration Collection Extensibility

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

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

### Licensed Links - File Synchronization

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

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

### Licensed Links - Schema Comparison:

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

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

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

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

From the Enterprise Manager home page, click on Targets,
 Databases, and then select a Database. From the database home page, click on Schema, Change Management. All features. functions. links. buttons. and drill-downs on this menu



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

are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

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

### Licensed Links - Schema and Data Synchronization:

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

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

### **Licensed Links – Copy Objects:**

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

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

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

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

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



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

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

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

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

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

### **Licensed Reports:**

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

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

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

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

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

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

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

- associate\_cs\_targets
- clone\_database
- config\_compare
- config\_db\_service\_target
- configure log archive locations
- confirm instance
- create\_database
- describe instance
- describe\_procedure\_input
- disable\_config\_history
- enable\_config\_history
- export\_compliance\_group



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

- export\_compliance\_standard\_rule
- export\_facet
- export\_standard
- fix compliance state
- get\_config\_searches
- get\_config\_templates
- get\_executions
- get\_instance\_data
- get\_instance\_status
- get\_instances
- get\_oms\_config\_property
- get\_procedure\_types
- get\_procedure\_xml
- get\_procedures
- get\_retry\_argument
- get saved configs
- ignore\_instance
- import\_compliance\_object
- list\_oms\_config\_properties
- remove\_cs\_target\_association
- reschedule\_instance
- resume\_instance
- run\_config\_search
- save\_procedure
- set config history retention period
- stop\_instance
- submit procedure
- suspend\_instance
- update\_and\_retry\_step
- update\_procedure\_input
- upgrade\_database

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

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

- MGMT\$CCC\_ALL\_OBS\_BUNDLES
- MGMT\$CCC\_ALL\_OBSERVATIONS
- MGMT\$CCC\_DIAG\_ANALYTICS
- MGMT\$CCC\_DIAG\_QUEUEBACKLOG
- MGMT\$COMPLIANCE\_STANDARD
- MGMT\$COMPLIANCE\_STANDARD\_GROUP
- MGMT\$COMPLIANCE\_STANDARD\_RULE
- MGMT\$COMPOSITE\_CS\_EVAL\_SUMMARY
- MGMT\$CS\_ASM\_DISKGRP\_SETTINGS



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

Management Pack	Availability	Included Features
		• MGMT\$CS_DB_CONTROL_FILE_COUNT
		<ul> <li>MGMT\$CS_DB_INIT_PARAMS</li> </ul>
		<ul> <li>MGMT\$CS_DB_RBS_IN_SYSTEM</li> </ul>
		<ul> <li>MGMT\$CS_DB_REC_SEG_SETTINGS</li> </ul>
		<ul> <li>MGMT\$CS_DB_REC_TS_SETTINGS</li> </ul>
		<ul> <li>MGMT\$CS_DB_REC_USER_SETTINGS</li> </ul>
		<ul> <li>MGMT\$CS_DB_REDO_LOG_COUNT</li> </ul>
		• MGMT\$CS_DB_REDO_LOGS
		• MGMT\$CS_DB_TABLESPACES
		<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>
		• MGMT\$CS_GROUP_KEYWORD
		• MGMT\$CS_HA_INFO
		• MGMT\$CS_HIERARCHY
		MGMT\$CS_KEYWORD
		• MGMT\$CS_RQS_HIERARCHY
		• MGMT\$CS_RULE_ATTRS
		• MGMT\$CS_RULE_EVAL_SUMMARY
		• MGMT\$CS_RULEFOLDER
		• MGMT\$CS_TARGET_ASSOC
		<ul> <li>MGMT\$CS_TGT_ASSOC_TXF_REQ</li> </ul>
		• MGMT\$CSG_HIERARCHY
		• MGMT\$CSG_SUBGROUP
		• MGMT\$CSR_CURRENT_VIOLATION
		• MGMT\$CSR_TARGET_ASSOC
		MGMT\$CSR_VIOLATION_CONTEXT
		• MGMT\$CSRF_TARGET_ASSOC
		MGMT\$EM_CS_RULE_EVENT_ERROR
		• MGMT\$EM_RULE_VIOL_CTXT_DEF
		MGMT\$ICS_TARGET_ASSOC
		MGMT\$REPO RULE CHK DETAILS
		• MGMT\$REPOSITORY_RULE_BIND_VARS
		• MGMT\$REPOSITORY_RULE_PARAMS
		• MGMT\$RULE KEYWORD
		Licensed Repository Views – Provisioning and Patching View
		The following provisioning and patching views within the repository schema are licensed under Oracle Database Lifecycle Manageme Pack for Oracle Database:
		EM\$PROV_APPTYPES

EM\$PROVAPP\_METADATA

EM\$PROVAPP\_METADATA\_VERSION
EM\$PROVAPP\_TAG\_PROPERTIES



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

- 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 for Oracle Database:

- GC\$EM\_PC\_PLAN\_PATCHES
- GC\$EM\_PC\_PLANS
- GC\$EM\_PC\_PLAN\_TARGETS
- GC\_PC\_EXECUTION\_INSTANCES
- GC PC PLAN ANALYSIS RS
- GC PC PLAN REMEDY
- GC\_PC\_PLAN\_REMEDY\_DETAILS
- GC\_PC\_PLAN\_USERS
- GC\_PC\_TARGETS
- MGMT\$APPLIED\_PATCHES
- MGMT\$APPLIED\_PATCHSETS
- MGMT\$ARU\_FAMILY\_PRODUCT\_MAP
- MGMT\$ARU\_LANGUAGES
- MGMT\$ARU\_PATCH\_RECOMMENDATIONS
- MGMT\$ARU\_PLATFORMS
- MGMT\$ARU\_PRODUCT\_RELEASE\_MAP
- MGMT\$ARU\_PRODUCTS
- MGMT\$ARU\_RELEASES
- MGMT\$ARU\_TARGETS
- MGMT\$PA\_AFFTED\_HOST\_GUID\_OH
- MGMT\$PA\_AFFTED\_HOST\_OH
- MGMT\$PA\_AFFTED\_TARGETS
- MGMT\$PA\_FINAL\_PATCH\_LIST
- MGMT\$PA\_TARGET\_MAPPING
- MGMT\$PR APPL PATCHES TO OH
- MGMT\$PR\_APPL\_PATCHES\_TO\_OH\_TGT
- MGMT\$PR\_HOME\_INFO
- MGMT\$PR\_HOMES\_AFFECTED\_COUNT
- MGMT\$RECOM\_METRIC\_SOURCE

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

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

- GC\$ECM\_COMP\_PROPERTIES
- GC\$ECM\_CONFIG\_SUMMARY
- GC\$ECM\_CURR\_CONFIG
- GC\$ECM\_CURR\_CONFIG\_FLAT\_MEMS
- GC\$ECM\_CURR\_CONFIG\_SNAPSHOTS
- GC\$ECM\_CURR\_TARGET\_SNAPSHOTS



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

Management Pack	Availability	Included Features
		• 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_TARGET_SNAPSHOTS
		• MGMT\$CCS_DATA
		• MGMT\$CCS_DATA_SOURCE
		<ul> <li>MGMT\$CCS_DATA_SOURCE_VISIBLE</li> </ul>
		• MGMT\$CCS_DATA_VISIBLE
		• MGMT\$DB_CONTROLFILES
		• MGMT\$DB_DATAFILES
		• MGMT\$DB_DBNINSTANCEINFO
		• MGMT\$DB_FEATUREUSAGE
		• MGMT\$DB_INIT_PARAMS
		• MGMT\$DB_LICENSE
		• MGMT\$DB_OPTIONS
		• MGMT\$DB_REDOLOGS
		• MGMT\$DB_ROLLBACK_SEGS
		• MGMT\$DB_SGA
		• MGMT\$DB_TABLESPACES
		• MGMT\$DB_TABLESPACES_ALL
		• MGMT\$ECM_CMP_JOB_LAST_RESULTS
		• MGMT\$ECM_CMP_JOBS
		• MGMT\$ECM_CMP_RPT_CCS_DS
		• MGMT\$ECM_CMP_RPT_CCS_DS_DTLS
		• MGMT\$ECM_CMP_RPT_CCS_PD_ALL
		<ul> <li>MGMT\$ECM_CMP_RPT_CCS_PD_DIFFS</li> </ul>
		<ul> <li>MGMT\$ECM_CMP_RPT_CI_DIFFS</li> </ul>
		• MGMT\$ECM_CMP_VISIBLE_CONFIGS
		• MGMT\$ECM_CURRENT_SNAPSHOTS
		• MGMT\$ECM_VISIBLE_SNAPSHOTS
		• MGMT\$SERVICETAG_INSTANCES
		• MGMT\$SERVICETAG_REGISTRY
		• MGMT\$UNPATCHABLE_DB_TARGETS
		Licensed Repository Views – Oracle Home Patching Views:
		The following Oracle home patching views within the repository schema are licensed under Oracle Database Lifecycle Manageme Pack for Oracle Database:
		• MGMT\$APPLIED_PATCHES
		• MGMT\$APPLIED_PATCHSETS

MGMT\$APPL\_PATCH\_AND\_PATCHSET
MGMT\$CPF\_ADVISORY\_INFO



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

### **Management Pack Availability Included Features** 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 MGMT\$OH\_INV\_SUMMARY MGMT\$OH\_PATCH MGMT\$OH PATCHED COMPONENT MGMT\$OH\_PATCHED\_FILE MGMT\$OH\_PATCH\_FIXED\_BUG MGMT\$OH\_PATCHSET MGMT\$OH\_VERSIONED\_PATCHV MGMT\$PATCH\_ADVISORIES Licensed Repository Views - Security Views: The following security views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database: MGMT\$ESA\_ALL\_PRIVS\_REPORT MGMT\$ESA\_ANY\_DICT\_REPORT MGMT\$ESA\_ANY\_PRIV\_REPORT MGMT\$ESA\_AUDIT\_SYSTEM\_REPORT MGMT\$ESA\_BECOME\_USER\_REPORT MGMT\$ESA CATALOG REPORT MGMT\$ESA CONN PRIV REPORT MGMT\$ESA CREATE PRIV REPORT MGMT\$ESA\_DBA\_GROUP\_REPORT MGMT\$ESA\_DBA\_ROLE\_REPORT MGMT\$ESA\_DIRECT\_PRIV\_REPORT MGMT\$ESA\_EXMPT\_ACCESS\_REPORT MGMT\$ESA\_KEY\_OBJECTS\_REPORT MGMT\$ESA\_OH\_OWNERSHIP\_REPORT MGMT\$ESA\_OH\_PERMISSION\_REPORT MGMT\$ESA\_POWER\_PRIV\_REPORT

MGMT\$ESA\_PUB\_PRIV\_REPORT
MGMT\$ESA\_SYS\_PUB\_PKG\_REPORT
MGMT\$ESA\_TABSP\_OWNERS\_REPORT



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

Management Pack	Availability	Included Features
		• MGMT\$ESA_TRC_AUD_PERM_REPORT
		• MGMT\$ESA_WITH_ADMIN_REPORT
		• MGMT\$ESA_WITH_GRANT_REPORT
		Licensed Repository Views – Client Configuration Views:
		The following client configuration views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:
		• MGMT\$CSA_COLLECTIONS
		• 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
		• MGMT\$CSA_HOST_OS_PROPERTIES
		• MGMT\$CSA_HOST_RULES
		• MGMT\$CSA_HOST_SW
		• MGMT\$ECM_CONFIG_HISTORY



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

Management Pack	Availability	Included Features
Oracle Diagnostics	Extra cost pack: <b>EE</b> , <b>EE-ES</b>	Features:
Pack		Oracle Diagnostics Pack includes the following features:
Pack	Included pack: DBCS EE, DBCS EE-HP, DBCS EE-EP, ExaCS	•
		set to one of three values:
		<ul> <li>DIAGNOSTIC+TUNING: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is enabled in the database server.</li> <li>DIAGNOSTIC: Only Oracle Diagnostics Pack functionality is enabled in the server.</li> </ul>
		<ul> <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 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.</li> </ul>
		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 contains the Management Pack Access link. Click this link.</li> <li>This will take you to the Management Pack Access page, which allows you to grant and remove access from all the management packs.</li> </ul>



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

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

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

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

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

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

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

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

```
SELECT * FROM DBA_STREAMS_TP_COMPONENT_STAT
  where STATISTIC_UNIT = 'PERCENT';
```

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



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

awrrpti.sql, awrgrpt.sql, awrgrpti.sql, awrgdrpt.sql, awrgdrpi.sql, addmrpti.sql, ashrpt.sql, ashrpti.sql, awrddrpi.sql, awrsqrpi.sql, awrsqrpi.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:

- MGMTSTEMPLATES
- MGMT\$TEMPLATE\_METRIC\_COLLECTION
- MGMT\$TEMPLATE METRIC SETTINGS
- MGMT\$TEMPLATE\_POLICY\_SETTINGS



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

Management Pack	Availability	Included Features
Oracle Tuning Pack	Extra cost pack: EE, EE-ES Included pack: 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 in the database server. This parameter can be set to one of three values: DIAGNOSTIC+TUNING: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is enabled in the database server. DIAGNOSTIC: Only Oracle Diagnostics Pack functionality is enabled in the server. NONE: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server. Any and all methods of accessing Oracle Tuning Pack functionality whether through Enterprise Manager Console, Desktop Widgets, command-line APIs, or direct access to the underlying data, requires an Oracle Tuning Pack license.  Prerequisites: Oracle Tuning Pack requires Oracle Diagnostics Pack. Licensed Links: To determine which links in Enterprise Manager are part of Oracle Tuning Pack, click the Setup link on the top right-hand part of the Enterprise Manager Home page. When you click the Setup link, the navigation bar contains the Management Pack Access link. Click this link. This will take you to the Management Pack Access page, which allows you to grant and remove access from all the management packs.  For Enterprise Manager Database Control, click the Remove Access radio button for the Tuning Pack and click Apply.  For Enterprise Manager Cloud Control, click the appropriate check box for the Tuning Pack and click Apply.  This procedure disables all the links and tabs associated with Oracle Tuning Pack in Enterprise Manager. All the disabled links

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

pack license.

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



Table 1-15 (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 DBMS\_SQLTUNE (See Note) 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 onpremises, then you can use certain subprograms of the DBMS\_SQLTUNE package even if you do not have an Oracle Tuning Pack license. See the SQL Tuning Sets entry in Table 1-6 for more information.

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

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

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

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

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

https://support.oracle.com

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/licensemanagement-services/index.html to understand your license requirements.

### 1.7 Special License Rights

Table 1-16 Special License Rights

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



Table 1-16 (Cont.) Special License Rights

Feature / Option	Licensing Information
Oracle ASM Cluster File System (Oracle ACFS)	When used with non-Oracle Database files, all Oracle ACFS features are free.  When used with Oracle Database files, all Oracle ACFS features are free, with the following exceptions:  ACFS Auditing - Not available (use Oracle Audit Vault*)  ACFS Compression - Not available (use Oracle Advanced Compression*)  ACFS Encryption - Not available (use Oracle Transparent Data Encryption, part of the Oracle Advanced Security option*)  ACFS Security - Not available (use Oracle Database Vault*)  * Requires appropriate full-use licenses to these products or components.
Oracle Automatic Storage	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.  Oracle ASM is free to use with all Oracle databases and Oracle ACFS file
Management (Oracle ASM)  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 Data Guard broker	You can install the broker command line interface DGMGRL and run the observer software on computer systems that are separate from the Oracle Data Guard primary and standby systems. It is not necessary to obtain a separate license for a system hosting the observer.
Oracle Database Backup Cloud Service	Oracle Database Backup Cloud Service includes use of the following two features from the Oracle Advanced Security option or the Oracle Advanced Compression option at no additional cost:  RMAN backup encryption  All RMAN backup compression algorithms  To use additional features of the Oracle Advanced Security option or the Oracle Advanced Compression option, you must license those options separately. In addition, the Oracle Advanced Security option must be separately licensed when performing RMAN encrypted backups directly to disk.
Oracle Database Gateway for ODBC	Oracle Database Gateway for ODBC can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Gateway for ODBC.
Oracle Database Provider for DRDA	Oracle Database Provider for DRDA can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Database Provider for DRDA.



Table 1-16 (Cont.) Special License Rights

Feature / Option	Licensing Information
Oracle Database Vault	When Oracle Database Vault is configured and enabled, it configures and enables Oracle Label Security. Oracle Label Security is solely restricted for use by the Oracle Database Vault software. If you want to create Oracle Label Security policies, then you must purchase a full-use license for Oracle Label Security.
Oracle Real Application Testing	The full functionality of Oracle Real Application Testing is available only on Oracle Database 11g Release 1 or higher. Partial functionality of Oracle Real Application Testing is available to customers wishing to upgrade from Oracle9i Database Release 2 or Oracle Database 10g.
	The functionality available on Oracle9i Database Release 2 is as follows:
	• <b>Database Replay</b> : 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 9 <i>i</i> Database Release 2 to Oracle Database 11g or higher.
	The functionality available on Oracle Database 10g Release 2 is as follows:
	<ul> <li>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.</li> </ul>
	• SQL Performance Analyzer: Only the Remote SQL Test Execute and SQL Capture into SQL Tuning Set features are supported. These features can be used only to facilitate upgrades from Oracle9i Database Release 2 and Oracle Database 10g Release 1 to Oracle Database 10g Release 2 or higher. When upgrading to Oracle Database 10g Release 2 from earlier releases (Oracle 9i Database or Oracle Database 10g Release 1), Oracle Database 11g is needed to remotely execute SQL on the target database (that is, Oracle Database 10g Release 2). Oracle Real Application Testing licensing is required for both systems, Oracle Database 10g Release 2 and Oracle Database 11g.
Oracle Secure Backup	For backup of Oracle Database Enterprise Edition, Oracle Secure Backup
Oracle Secure Backup Cloud	includes restricted use licenses for:
Module	<ul> <li>RMAN backup encryption to tape or Amazon S3</li> <li>RMAN backup compression leveraging LOW, MEDIUM, BASIC or HIGH algorithms</li> </ul>
	The Oracle Secure Backup special-use licenses apply to RMAN backup encryption, which is a component of the Oracle Advanced Security option, and RMAN backup compression levels, which are components of the Oracle Advanced Compression option. To use additional features of the Oracle Advanced Security option or the Oracle Advanced Compression option, you must license those options separately. In addition, the Oracle Advanced Security option must be licensed when performing RMAN encrypted backups directly to disk whether or not Oracle Secure Backup is the media manager.
Oracle Secure Backup 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.
	<u> </u>



Table 1-16 (Cont.) Special License Rights

Feature / Option	Licensing Information
Oracle Spatial and Graph	These Oracle Spatial and Graph components can be installed and used on a server different from the server where the Oracle Database is installed and used without a separate license:
	<ul> <li>Spatial Geocoder</li> <li>Spatial Routing engine</li> <li>Spatial Web Services</li> <li>Property Graph client</li> <li>In-memory analyst (PGX)</li> <li>Spatial Visualization component</li> <li>For more information, see Oracle Spatial and Graph Developer's Guide and Oracle Spatial and Graph Property Graph Developer's Guide.</li> </ul>
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.



### 1.8 Restricted Use Licenses

Table 1-17 Restricted Use Licenses

Feature / Option	Licensing Information
Oracle Advanced Security	Any Oracle Advanced Security licenses purchased on or before January 31, 2004, have restricted use of the Oracle Internet Directory (OID) component of Oracle Directory Services Plus to support Enterprise User Security.
	Oracle Advanced Security includes a restricted use license for the following Oracle Enterprise Manager features:
	<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 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
Oracle Applications Unlimited	An Oracle Database Cloud Service Enterprise Edition (DBCS-EE) instance being used to support an Oracle Cloud deployment of an Oracle Applications Unlimited application has restricted use of the following options: Oracle On-Line Analytical Processing (OLAP), Oracle Partitioning, and Oracle Spatial and Graph. These options may be used only to support Oracle Applications Unlimited and may not be used or deployed for any other purpose.
Oracle Big Data SQL	Oracle Big Data SQL includes a Query Server that is used to query data sources including HDFS, Kafka, and NoSQL stores. Oracle Big Data SQL includes a restricted use license of Oracle Database for storing metadata (i.e. external tables and views) maintained by the Query Server. No other objects may be created in this Oracle Database.
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.



Table 1-17 (Cont.) Restricted Use Licenses

Feature / Option	Licensing Information
Oracle Database Vault	Oracle Database Vault includes a restricted use license for the following Oracle Enterprise Management features:
	<ul> <li>Application Data Modeling (previously called Data Discovery and Modeling</li> </ul>
	Application Data Modeling accelerator for select versions of Oracle E-      Dusting a Court.
	<ul> <li>Business Suite</li> <li>Application Data Modeling accelerator for select versions of Oracle Fusion</li> </ul>
	Applications Applications
Oracle HTTP Server	A restricted use license for Oracle HTTP Server is included with all editions (except for Oracle Database Express Edition) when the HTTP Server is running on the same server as the database. Running Oracle HTTP server on a different server requires that other server be licensed to use the HTTP server, either through an Oracle Database license or an Oracle Application Server license
Oracle Internet Directory	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:
	Application Data Models (previously called Data Discovery and Modeling)
	<ul> <li>Sensitive Column Types and Sensitive Data Discovery</li> </ul>
	Application Accelerators
	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.
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:
	<ul> <li>Embedded SQL-style interfaces: Pro*C/C++, Pro*COBOL, Pro*Fortran, SQL*Module for Ada, SQLJ</li> </ul>
	<ul> <li>Utilities to generate host-language bindings from database schemas:</li> <li>Object Type Translator and JPub</li> </ul>
Oracle Real Application Testing	Restricted use licenses of Load Testing Accelerator for Oracle Database, Oracle Load Testing, and Oracle Load Testing Controller are included with Oracle Real Application Testing for use for Oracle Database testing and may not be used for application testing.
Oracle Secure Backup	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.



Table 1-17 (Cont.) Restricted Use Licenses

Feature / Option	Licensing 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.



### Third-Party Notices and/or Licenses

- Third-Party Notices and/or Licenses for Oracle Database
- Third-Party Notices and/or Licenses for Oracle Database Components

### 2.1 Third-Party Notices and/or Licenses for Oracle Database

### 2.1.1 Commercial Software Included in Oracle Database

Commercial software products or components distributed in Oracle Database 19c are identified in the following table along with the applicable licensing information.

Table 2-1 Commercial Software Included in Oracle Database

Provider	Component(s)	Licensing Information
Microsoft	Visual Studios Redistributables 14.16.27012	Must include Oracle copyright notices in the Oracle applications that include the Distributable Code. Oracle must not use Microsoft trademarks in Oracle program names or in a way that suggest the Oracle products were from or endorsed by Microsoft.
RSA	RSA BSAFE Crypto-J 6.2.2.1	This product includes code licensed from RSA Data Security. See Figure 2-1.

Figure 2-1 RSA Secure Logo



## 2.1.2 Open Source or Other Separately Licensed Software Included in Oracle Database

Required notices for open source or other separately licensed software products or components distributed in Oracle Database 19c are identified in the following table along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party software.

Table 2-2 Open Source or Other Separately Licensed Software Included in Oracle Database

Provider	Component(s)	Licensing Information
ANTLR	Antlr 3.2	ANTLR 3 License
		[The BSD License]
		Copyright (c) 2003-2007, Terence Parr
		All rights reserved.
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		/* Jackson JSON-processor.
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		<pre>package com.fasterxml.jackson.core;</pre>
		/**
		* Interface that those Jackson components that are
		explicitly versioned will implement.
		* Intention is to allow both plug-in components (custom extensions) and applications and
		* frameworks that use Jackson to detect exact version of
		Jackson in use.
		* This may be useful for example for ensuring that proper Jackson version is deployed
		* (beyond mechanisms that deployment system may have), as
		well as for possible
		* workarounds. */
		public interface Versioned {
		/**
		* Method called to detect version of the component
		that implements this interface;  * returned version should never be null, but may
		return specific "not available"
		<pre>* instance (see {@link Version} for details). */</pre>
		<pre>Version version();</pre>



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ry 2.2.3	<pre>jQuery JavaScript Library v2.1.3 * http://jquery.com/ * * Includes Sizzle.js * http://sizzlejs.com/ * * Copyright 2005, 2014 jQuery Foundation, Inc. and other</pre>
	* http://sizzlejs.com/ *
	* Copyright 2005 2014 iOuery Foundation Inc. and other
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		This product is licensed under the Apache 1.1 license agreement. See The Apache Software License, Version 1.1.
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Apache	Commons IO 2.6	Apache Commons IO
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		Oracle must give recipients a copy of this license (doc)
Apache	Commons Logging	Apache Commons Logging
	1.2-0548efb	Copyright 2003-2016 The Apache Software Foundation
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Apache	XML Graphics Commons 2.3	This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	xml-apis.jar 1.3.04	Apache Xerces Java
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PDFBox	PDFBox 2.0.12	For a copy of the license, see PDFBox 2.0.12 License.
Shigeru Chiba	javassist 3.23.1-GA	This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.

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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app 3 0.xsd
- web-common\_3\_0.xsd
- web-fragment 3 0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd



- web-app\_3\_1.xsd
- web-common 3 1.xsd
- web-fragment 3 1.xsd

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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common 3 0.xsd
- web-fragment\_3\_0.xsd
- javaee 7.xsd
- javaee\_web\_services\_1\_4.xsd



- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
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- web-common 4 0.xsd
- web-fragment 4 0.xsd

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```
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```

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

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

org.mozilla.java script.tools.debugger.downloaded. JTree Table.java

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

org. mozilla. javas cript. to ols. debugger. downloaded. Tree Table Model Adapter. javas resultation and the contraction of t

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Version 1.1 - 26 February 2007

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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

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

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#### gdal/alg/thinplatespline.cpp

IEEE754 log() code derived from:

@(#)e\_log.c 1.3 95/01/18

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#### gdal/alg/libghull

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C.B. Barber

Arlington, MA

and



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#### gdal/frmts/pdf/pdfdataset.cpp (method PDFiumRenderPageBitmap())

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#### gdal/frmts/mrf/\* (apply when MRF driver included in build)

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# A.16 HttpComponents HttpClient 4.5.6 License

Apache httpclient 4.5.6



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#### Modules:

fluent-hc
httpclient-cache
httpclient-osgi
httpclient-win
httpclient
httpmime

\_\_\_\_\_

#### 4P Dependencies:

commons-codec » commons-codec 1.10

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains test data from http://aspell.net/test/orig/batch0.tab.

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commons-logging » commons-logging 1.2

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org.apache.httpcomponents » httpcore 4.4.10

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Apache HttpComponents Core 4.4.10

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# 4P Test Dependencies (No Compile Dependencies):

There are four 4th party dependencies, all of them are for testing only.

1) Commons-logging version 1.2 (Apache 2.0)

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# 2) junit version 5.2.0 (EPL 2.0)

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# 3) commons-lang3 version 3.8 (Apache 2.0)

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MIT 3.4.0
```

```
js/libs/knockout/knockout-mapping-latest.js
                                                       MIT 2.4.1
js/libs/require/require.js
                                                       MIT 2.3.2
js/libs/require/text.js
                                                       MIT 2.0.15
js/libs/js-signals/signals.js
                                                       MIT 1.0.0
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                                                       MIT 4.1.0
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js/libs/oj/v3.1.0/min/ojselectcombobox.js (Select2.js) Apache 2.1.0
js/libs/oj/v3.1.0/min/ojtree.js (jsTree.js)
                                                       MIT 1.0
js/libs/oj/v3.1.0/ojL10n.js (requireJS i18n)
                                                       MIT 2.0.2
                                                       MIT 2.0.8
js/libs/hammer/hammer-2.0.8.js
js/libs/require-css/css.js (require-css)
                                                       MIT 0.1.8
js/libs/proj4js/dist/proj4.js
                                                       Proj4js 2.3.14
scss/oj/v3.1.0/3rdparty/normalize/normalize.scss
                                                      MTT 1.0
```

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=== jsTree 1.0-rc3 ===

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

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  */
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js/libs/require-css/css.js (require-css)
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js/libs/proj4js/dist/proj4.js
                                                     Proj4js 2.3.14
scss/oj/v3.1.0/3rdparty/normalize/normalize.scss
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## === Knockout.js 3.4.0 ===

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

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=== Normalize.css ===

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=== jsTree 1.0-rc3 ===

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

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=== Normalize.css ===

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=== RequireJS i18n 2.0.2 ===

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=== jsTree 1.0-rc3 ===

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lib/gssapi/spnego/spnego\_mech.c



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

include/iprop\_hdr.h kadmin/server/ipropd\_svc.c lib/kdb/iprop.x lib/kdb/kdb\_convert.c lib/kdb/kdb\_log.c lib/kdb/kdb\_log.h lib/krb5/error\_tables/kdb5\_err.et slave/kpropd\_rpc.c slave/kproplog.c

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log4j 2.11.1

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log4j-api-java9

log4j-api

log4j-appserver

log4j-bom

log4j-cassandra

log4j-core-its

log4j-core-java9



```
log4j-core
  log4j-couchdb
  log4j-distribution
  log4j-flume-ng
  log4j-iostreams
  log4j-jcl
  log4j-jdbc-dbcp2
  log4j-jmx-gui
  log4j-jpa
  log4j-jul
  log4j-liquibase
  log4j-mongodb2
  log4j-mongodb3
  log4j-osgi
  log4j-perf
  log4j-samples
  log4j-slf4j-impl
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org.apache.activemq activemq-broker 5.14.5

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org.lightcouch 0.0.6

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BUILD: 2016-02-13 19:37:50+01:00

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```

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Written by: Philip Hazel

Email local part: ph10
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Perl is a general-purpose programming language originally developed for text manipulation and now used for a wide range of tasks including system administration, web development, network programming, GUI development, and more.



The language is intended to be practical (easy to use, efficient, complete) rather than beautiful (tiny, elegant, minimal). Its major features are that it's easy to use, supports both procedural and object-oriented (OO) programming, has powerful built-in support for text processing, and has one of the world's most impressive collections of third-party modules.

For an introduction to the language's features, see pod/perlintro.pod.

For a discussion of the important changes in this release, see pod/perldelta.pod.

There are also many Perl books available, covering a wide variety of topics, from various publishers. See pod/perlbook.pod for more information.

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This code may require the following fourth party dependencies:

XML::Simple requires either XML::Parser or XML::SAX.

To generate documents with namespaces, XML::NamespaceSupport is required.

The optional caching functions require Storable.

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Larry Wall <a href="mailto:larry@wall.org">larry@wall.org</a> wrote version 1.0.

Clark Cooper <coopercc@netheaven.com> picked up support, changed the API for this version (2.x), provided documentation, and added some standard package features.

Matt Sergeant <matt@sergeant.org> is now maintaining XML::Parser

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Fourth Part dependencies

org.apache.httpcomponents:httpclient:4.5.5 (Apache 2.0)

org.apache.httpcomponents:httpcore:4.4.9 (Apache 2.0)

commons-codec:commons-codec:1.10 (Apache 2.0)

commons-logging:commons:logging:1.2 (Apache 2.0)

org.apache.commons:commons-lang3:3.4 (Apache 2.0)

junit:junit:4.12 (Test) (EPL 1.0)

org.mockito:mockito-core:1.10.19 (Test)(MIT)

org.hamcrest:hamcrest-core:1.1 (Test)(BSD 2-Clause)



org.objenesis:objenesis:2.1 (Test) (Apache 2.0)

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