Oracle® Database Database Licensing Information User Manual



ORACLE

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Preface

This Preface contains these topics:

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

Audience

This book is intended for all purchasers of Oracle Database 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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Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Documents

For more information, see these Oracle resources:



- Oracle Database New Features Guide for information on the features new to this release
 of Oracle Database
- Oracle Global Pricing and Licensing, available at:

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

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

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.



1 Licensing Information

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

1.1 Introduction

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

1.2 Oracle Database Offerings

Oracle Database Offering	Offering Type	Abbreviated Name Used in this Guide	Description
Oracle Database Standard Edition 2	On- Premise	SE2	Oracle Database Standard Edition 2 includes features necessary to develop workgroup, department-level, and Web applications.

Table 1-1 Oracle Database Offerings



Oracle Database Offering	Offering Type	Abbreviated Name Used in this Guide	Description
Oracle Database Enterprise Edition	On- Premise	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- Premise	EE-ES	Oracle Database Enterprise Edition software installed on an on-premise 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- Premise	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	Offering Type	Abbreviated Name Used in this Guide	Description
Oracle Database Exadata Cloud Service	Cloud	ExaCS/CC	This guide uses ExaCS/CC to describe the licensing policies for both Oracle Database Exadata Cloud
Oracle Database Exadata Cloud@Customer			Service and Oracle Database Exadata Cloud@Customer.
			These offerings include Oracle Database Enterprise Edition software plus all Oracle Database options and Oracle management packs that are appropriate for use in Oracle Database Exadata Cloud Service or Oracle Database Exadata Cloud@Customer.

Table 1-1 (Cont.) Oracle Database Offerings

Note:

In addition to the Oracle Database offerings listed in the preceding table, this guide describes licensing policies for **Authorized Cloud Environments**. For more information about these environments, refer to the following document:

https://www.oracle.com/assets/cloud-licensing-070579.pdf

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 ${\tt Y}$ value in a column means that the feature, option, or pack is available for a particular offering; ${\tt N}$ means that it is unavailable; ${\tt N}/{\tt A}$ means that it is not applicable. These tables can help you understand the difference between Oracle Database offerings to determine which one is right for you.

The tables are organized into the following functional categories:

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

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS /CC	Notes
Oracle Multitenant - # of PDBs	3	252	4096	3	3	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 you may have up to 3 user-created PDBs in a given container database at any time. EE: Extra cost option; if you can create up to 252 PDBs. EE-ES: Extra cost option; if 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 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/CC: Included option; you can create up to 4096 PDBs. Note: For licensing purposes, one non-CDB instance is equivalent to one user-created PDB inside one CDB.
CDB Fleet Management	Ν	Ν	Y	Ν	Y	Y	Y	Y	
PDB Snapshot Carousel	Ν	N	Y	Ν	Y	Y	Y	Y	
Refreshable PDB switchover	N	N	Y	Y	Y	Y	Y	Y	

Table 1-3Development Platform

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE		DBCS EE-HP			Notes
SQLJ	Y	Y	Y	Y	Y	Y	Y	Y	Requires Oracle Programmer

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

Table 1-3 (Cont.) Development Platform

Table 1-4 High Availability

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

Feature / Option /	SE2	CC	EE-	DBCS	DBCS	DBCS	DBCS	ExaCS	Notes
Pack	3EZ	EE	EE- ES	SE	EE	EE-HP	EE-EP	ICC	Notes
Oracle Data Guard —Redo Apply	Ν	Y	Y	Ν	Y	Y	Y	Y	
Oracle Data Guard —Far Sync Standby	Ν	Y	Y	Ν	Ν	Ν	Y	Y	EE and EE-ES : Requires the Oracle Active Data Guard option
Oracle Data Guard —SQL Apply	N	Y	Y	Ν	Y	Y	Y	Y	
Oracle Data Guard —Snapshot Standby	N	Y	Y	Ν	Y	Y	Y	Y	
Oracle Data Guard —Real-Time Cascading Standbys	Ν	Y	Y	N	N	Ν	Y	Y	EE and EE-ES : Requires the Oracle Active Data Guard option
Oracle Data Guard —Automatic Correction of Non- logged Blocks at a Data Guard Standby Database	N	N	Y	Ν	N	N	Y	Y	EE-ES : Requires the Oracle Active Data Guard option
Oracle Active Data Guard	Ν	Y	Y	Ν	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	Y	Y	Y	
Rolling Upgrade Using Active Data Guard	Ν	Y	Y	Ν	Ν	Ν	Y	Y	EE and EE-ES : Requires the Oracle Active Data Guard option
Online index rebuild	N	Y	Y	Ν	Y	Y	Y	Y	
Online table organization	Ν	Y	Y	Ν	Y	Y	Y	Y	ALTER TABLE MOVE ONLINE operations
Online table redefinition	Ν	Y	Y	Ν	Y	Y	Y	Y	Using the DBMS_REDEFINITION package
Duplexed backup sets	Ν	Y	Y	Ν	Y	Y	Y	Y	
Block change tracking for fast incremental backup	Ν	Y	Y	Ν	Y	Y	Y	Y	
Unused block compression in backups	Ν	Y	Y	Ν	Y	Y	Y	Y	

Table 1-4 (Cont.) High Availability

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

Table 1-4 (Cont.) High Availability

Table 1-5 Integration

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS /CC	Notes
Database Gateways	Y	Y	Y	Y	Y	Y	Y	Y	Database Gateway for ODBC is included in all offerings.
									All other Database Gateway products are available for all offerings, but require a separate product license.
Messaging Gateway	N	Y	Y	Ν	Y	Y	Y	Y	
AQ Sharded Queues	Y	Y	Y	Y	Y	Y	Y	Y	Includes a restricted use license for Oracle Partitioning. Refer to AQ Sharded Queues in "Restricted Use Licenses" for more information.

Table 1-6 Manageability

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

Table 1-6	(Cont.)	Manageability
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Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS /CC	Notes
SQL Plan Management	Y (See Notes)	Y	Y	Y (See Notes)	Y	Y	Y	Y	SQL Plan Management does not require a license for Oracle Diagnostics Pac or Oracle Tuning Pack
			SE2 and DBCS SE Summary: Only one SQL plan baseline per SQL statement is allowed and SQL plan evolution is disabled.						
									SE2 and DBCS SE Details
									 SQL plan baselines ca be created or captured using the following methods:
									 Auto capture (OPTIMIZER_CAP URE_SQL_PLAN_E SELINE=TRUE)
									Manual loading from the cursor cache (DBMS_SPM.LOAD PLANS_FROM
									CURSOR_CACHE) Migration from stored outlines (DBMS_SPM.MIGR TE_STORED_OUTI NE)
									 Import using DBMS_SPM.UNPAC _STGTAB_BASELI E
									2. All capture and creation methods store only on SQL plan baseline per SQL statement.
									3. SQL plan baselines ca be exported and imported using DBMS_SPM.CREATE_S' GTAB_BASELINE, DBMS_SPM.PACK_STG AB_BASELINE, and DBMS_SPM.UNPACK_S' GTAB_BASELINE.
			 Unused SQL plan baselines are not auto purged. 						

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS /CC	Notes
									5. Alternative SQL execution plans for SQL 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.
Automatic SQL Plan Management	N	N	Y	Ν	Ν	N	Ν	Y	EE-ES : Available on Exadata. Not available on Oracle Database Appliance.

Table 1-6 (Cont.) Manageability

Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS /CC	Notes
SQL Tuning Sets	Ν	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_REFERENCE E, SELECT_CURSOR_CACHE, SELECT_SQLSET, SELECT_SQLSET, UNPACK_STGTAB_SQLSET, UNPACK_STGTAB_SQLSET, UPDATE_SQLSET.
Oracle Fleet Patching and Provisioning (formerly Rapid Home Provisioning)	Ν	Y	Y	N/A	N/A	N/A	N/A	N/A	EE and EE-ES: When deployed across multiple clusters, each FPP- managed target must be licensed for one of the following: Oracle Database Lifecycle Management Pack, Oracle RAC, or Oracle RAC

Table 1-6	(Cont.)	Manageability
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Table 1-7 Networking

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP		ExaCS /CC	Notes
RDMA fabric	N	N	Y	Ν	N	N	N	Y	EE-ES : Available on Exadata. Not available on Oracle Database Appliance.

Table 1-7 (Cont.) Networking

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS /CC	Notes
Oracle Connection Manager	N	Y	Y	Ν	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	Y	Ν	Ν	Y	Y	Y	EE and EE-ES : Requires the Oracle Advanced Compression option

Table 1-8Performance

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS /CC	Notes
Automatic Indexing	Ν	N	Y	Ν	N	Ν	Ν	Y	EE-ES : Available on Exadata. Not available on Oracle Database Appliance.
SQL Quarantine	Ν	N	Y	Ν	N	N	Ν	Y	EE-ES : Available on Exadata. Not available on Oracle Database Appliance.
Real-Time Statistics	Ν	N	Y	Ν	N	N	Ν	Y	EE-ES : Available on Exadata. Not available on Oracle Database Appliance.
High-Frequency Automatic Optimizer Statistics Collection	Ν	N	Y	N	N	N	Ν	Y	EE-ES : Available on Exadata. Not available on Oracle Database Appliance.
High-Frequency Automatic SPM Evolve Advisor Task	N	N	Y	Ν	N	Ν	N	Y	You can enable this feature by setting the AUTO_SPM_EVOLVE_TASK parameter of the DBMS_SPM.CONFIGURE procedure.
									EE-ES : Available on Exadata. Not available on Oracle Database Appliance.
Client Side Query Cache	Ν	Y	Y	Ν	Y	Y	Y	Y	
Query Results Cache	Ν	Y	Y	Ν	Y	Y	Y	Y	
PL/SQL Function Result Cache	Ν	Y	Y	N	Y	Y	Y	Y	
Oracle TimesTen Application-Tier Database Cache	Ν	Y	Y	Ν	N	N	Ν	Ν	EE and EE-ES : Extra cost option

Table 1-8	(Cont.) Performance
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Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS /CC	Notes
Database Smart Flash Cache	N	Y	Y	N/A	N/A	N/A	N/A	N/A	EE: Solaris and Oracle Linux only EE-ES: Available on Oracle Database Appliance. Not available on Exadata
Support for Oracle Exadata Storage Server Software	N	N	Y	Ν	N	N	N	Y	EE-ES : Available on Exadata. Not available on Oracle Database Appliance.
Adaptive Execution Plans	Ν	Y	Y	Ν	Y	Y	Y	Y	
Concurrent Execution of UNION and UNION ALL Branches	Ν	Y	Y	Ν	Y	Y	Y	Y	
Oracle Database In- Memory	Ν	Y	Y	Ν	Ν	Ν	Y	Y	EE and EE-ES : Extra cost option
In-Memory Column Cache on Storage Servers	N	N	Y	Ν	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 or
In-Memory Column Store on Active Data Guard standby	N	N	Y	N	N	N	N	Y	Supercluster 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	Ν	Ν	Y	N	Ν	Ν	Ν	Y	EE-ES : Available on Exadata and Oracle Database Appliance. Requires the Oracle Database In-Memory option and the Oracle Real Application Clusters option. Requires Exadata, Supercluster, or Infiniband- based Oracle Database Appliance
Automatic In- Memory	N	Y	Y	N	N	N	Y	Y	EE and EE-ES: Requires the Oracle Database In-Memory option

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS /CC	Notes
In-Memory Column Store support for External Tables	N	Y	Y	N	N	N	Y	Y	EE and EE-ES : Requires the Oracle Database In-Memory option
									Note: The licensing policy shown here applies to this feature starting with Oracle Database release 19c, version 19.12. In earlier versions of Oracle Database release 19c, this feature is available only on Exadata on-premise systems (requires the Oracle Database In-Memory option) and ExaCS/CC.
In-Memory Aggregation	N	Y	Y	Ν	Ν	Ν	Y	Y	EE and EE-ES : Requires the Oracle Database In-Memory option

 Table 1-8
 (Cont.) Performance

Table 1-8	(Cont.)	Performance
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Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS /CC	Notes
Database In- Memory Base Level	Ν	Y	Y	N	Ν	Ν	Y	Y	 Allows you to experiment with Oracle Database In- Memory features without purchasing the Oracle Database In-Memory option. The following restrictions apply: The size of the In- Memory area (INMEMORY_SIZE) cannot exceed 16 GB for a CDB. In an Oracle RAC environment, the size is limited to 16 GB for each instance. The compression level for all objects and columns is automatically and transparently set to QUERY LOW. The Automatic In- Memory feature is disabled. In-Memory Column Store feature tracking is tracked for "In-Memory Base Level" rather than "In-Memory Column Store." The CellMemory feature is disabled for Oracle Exadata. Not available in Authorized Cloud Environments
Memoptimized Rowstore	Ν	Y	Y	Ν	Ν	Ν	Y	Y	Note: The licensing policy shown here applies to this feature starting with Oracle Database release 19c, version 19.12. In earlier versions of Oracle Database release 19c, this feature is available only on Exadata on-premise systems and ExaCS/CC.
Attribute Clustering	Ν	Y	Y	Ν	Y	Y	Y	Y	
Zone Maps	N	N	Y	N	N	N	Ν	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 /CC	Notes
Oracle Real Application Clusters (Oracle RAC)	N	Y	Y	N	N	N	Y	Y	EE and EE-ES : Extra cost option
Automatic Workload Management	Y	Y	Y	Ν	N	N	Y	Y	EE and EE-ES : Requires the Oracle Real Application Clusters option
Quality of Service Management	Y	Y	Y	Ν	N	Ν	Y	Y	EE and EE-ES : Requires the Oracle Real Application Clusters option
Oracle NoSQL Database Enterprise Edition	N	Y	Y	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 /CC	Notes
Transparent Data Encryption (TDE) for Columns	N	Y	Y	Ν	N	Y	Y	Y	EE and EE-ES: Requires the Oracle Advanced Security option
Transparent Data Encryption (TDE) for Tablespaces	N	Y	Y	Y	Y	Y	Y	Y	EE and EE-ES: Requires the Oracle Advanced Security option
Oracle Advanced Security	Ν	Y	Y	Ν	Ν	Y	Y	Y	EE and EE-ES : Extra cost option
Oracle Database Vault	Ν	Y	Y	N	Ν	Y	Y	Y	EE and EE-ES : Extra cost option
Oracle Label Security	Ν	Y	Y	Ν	Ν	Y	Y	Y	EE and EE-ES : Extra cost option
Enterprise User Security	Ν	Y	Y	Ν	Y	Y	Y	Y	EE, EE-ES, DBCS EE, DBCS EE-HP, DBCS EE- EP, and ExaCS/CC: Enterprise User Security is a feature for directory-based management of database users. It requires a corresponding Oracle Identity Management Directory Services Plus to be licensed.

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS /CC	Notes
Centrally Managed Users	N	Y	Y	Ν	Y	Y	Y	Y	EE, EE-ES, DBCS EE, DBCS EE-HP, DBCS EE- EP, and ExaCS/CC: Centrally Managed Users is a feature for centrally authenticating and authorizing database users with Microsoft Active Directory.
Fine-grained Auditing	N	Y	Y	Ν	Y	Y	Y	Y	
Privilege Analysis	Ν	Y	Y	Ν	Y	Y	Y	Y	
Real Application Security	N	Y	Y	Ν	Y	Y	Y	Y	
Redaction	Ν	Y	Y	Ν	Ν	Y	Y	Y	EE and EE-ES : Requires the Oracle Advanced Security option
Transparent Sensitive Data Protection	Ν	Y	Y	Ν	Y	Y	Y	Y	
Virtual Private Database	N	Y	Y	Ν	Y	Y	Y	Y	
Keystore for Each Pluggable Database	Ν	Ν	Y	Ν	Y	Y	Y	Y	

Table 1-10(Cont.) Security

Table 1-11 Snapshots and Cloning

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

Table 1-12Spatial and Graph Data

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS /CC	Notes
Oracle Spatial and Graph	Y	Y	Y	Y	Y	Y	Y	Y	Oracle Spatial and Graph no longer requires an extra cost license. See Oracle Database Insider blog post for more information.

Table 1-12 (Co	nt.) Spatial	and Graph Data
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Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS /CC	Notes
Property Graph and RDF Graph Technologies (RDF/ OWL)	Y	Y	Y	Y	Y	Y	Y	Y	Property Graph and RDF Graph Technologies (RDF/ OWL) no longer requires an extra cost license. See Oracle Database Insider blog post for more information.
Parallel spatial index builds	Ν	Y	Y	Ν	Y	Y	Y	Y	
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	Ν	Ν	Y	Y	Y	EE and EE-ES : 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 /CC	Notes
Oracle Partitioning	N	Y	Y	Ν	Ν	Y	Y	Y	EE and EE-ES : Extra cost option
Oracle On-Line Analytical Processing (OLAP)	Ν	Y	Y	N	N	Y	Y	Y	EE and EE-ES: Extra cost option
Oracle Machine Learning (formerly Advanced Analytics)	Y	Y	Y	Y	Y	Y	Y	Y	Oracle Machine Learning no longer requires an extra cost license. See Oracle Database Insider blog post for more information.
Oracle Advanced Compression	Ν	Y	Y	Ν	Ν	Y	Y	Y	EE and EE-ES : Extra cost option
Advanced Index Compression	Ν	Y	Y	Ν	Ν	Y	Y	Y	EE and EE-ES : Requires the Oracle Advanced Compression option
Prefix Compression (also called Key Compression)	Ν	Y	Y	Ν	Y	Y	Y	Y	
Hybrid Columnar Compression	Ν	Y	Y	Ν	Y	Y	Y	Y	EE : Requires ZFS, Axiom, or FS1 storage

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS /CC	Notes
Row-Level Locking for Hybrid Columnar Compression	N	Y	Y	N	N	N	N	Ŷ	EE: Requires ZFS or FS1 storage, and the Oracle Advanced Compression option EE-ES: Requires the Oracle Advanced Compression option
Exadata Flash Cache Compression	N	N	Y	N	N	N	Ν	Y	EE-ES : Available on Exadata and requires the Oracle Advanced Compression option. Not available on Oracle Database Appliance.
Heat Map	N	Y	Y	N	N	Y	Y	Y	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	Ν	Y	Y	Ν	Y	Y	Y	Y	
Deferred Segment Creation	Ν	Y	Y	Ν	Y	Y	Y	Y	
Bitmapped index, bitmapped join index, and bitmap plan conversions	Ν	Y	Y	Ν	Y	Y	Y	Y	
Parallel query/DML	Ν	Y	Y	Ν	Y	Y	Y	Y	
Parallel statistics gathering	Ν	Y	Y	Ν	Y	Y	Y	Y	
Parallel index build/ scans	Ν	Y	Y	Ν	Y	Y	Y	Y	
Parallel Data Pump Export/Import	Ν	Y	Y	Ν	Y	Y	Y	Y	
In-memory Parallel Execution	Ν	Y	Y	Ν	Y	Y	Y	Y	
Parallel Statement Queuing	Ν	Y	Y	Ν	Y	Y	Y	Y	
Parallel capture and apply via XStream	Ν	Y	Y	Ν	Y	Y	Y	Y	

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 /CC	Notes
Transportable tablespaces, including cross- platform and full transportable export and import	N	Y	Y	Ν	Y	Y	Y	Y	Import of transportable tablespaces supported into SE2
Summary management— Materialized View Query Rewrite	Ν	Y	Y	N	Y	Y	Y	Y	

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

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.



Option Av	vailability	Included Features
Oracle Active Data Ex Guard El In D	ixtra cost option: EE, iE-ES included option: PE, iPBCS EE-EP, ixaCS/CC	

 Table 1-14
 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/CC	 Advanced Row Compression Advanced LOB Compression
Oracle Advanced Security	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS/CC	 Oracle Advanced Security includes the following features: Transparent Data Encryption (TDE) for columns and tablespaces (including Oracle SecureFiles)

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

Option	Availability	Included Features
Oracle Database In- Memory	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-EP, ExaCS/CC	 Oracle Database In-Memory includes the following features: In-Memory Column Store In-Memory Column Cache on Storage Servers (Requires Exadata or Supercluster) Fault Tolerant In-Memory Column Store (Requires Exadata, Supercluster, or Infiniband-based Oracle Database Appliance) In-Memory Aggregation Heat Map Automatic Data Optimization
Oracle Database Vault	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS/CC	 Oracle Database Vault includes the following features: Separation of Duties Realms Command Rules Trusted Paths In an Oracle Multitenant environment, an Oracle Database Vault license is required when Oracle Database Vault is enabled in the CDB root, regardless of whether any PDBs are plugged in to the CDB root. An Oracle Database Vault license is not required when Oracle Database Vault is merely installed or configured in the CDB root. The Oracle Database Vault license applies to the entire CDB; you cannot license individual PDBs. When you purchase a license to use Oracle Database Vault on Oracle Database Enterprise Edition (EE or EE-ES), the licensing metrics for Oracle Database Vault must match the licensing metrics for Oracle Database Vault includes special license rights for Oracle Label Security. Refer to Oracle Database Vault in "Special License Rights" for more information. Oracle Database Vault includes a restricted use license for certain Oracle Enterprise Manager features. Refer to Oracle Database Vault in "Restricted Use Licenses" for more information.
Oracle Label Security	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS/CC	 Oracle Label Security includes the following features: Label based access control (LBAC) Multi-level security (MLS) Label factors for Oracle Database Vault (Confidential, Sensitive) User label authorizations (Confidential, Sensitive: PII) Data labels (Sensitive: PII) In an Oracle Multitenant environment, an Oracle Label Security license is required when an Oracle Label Security policy is created in any container. An Oracle Label Security license is not required when Oracle Label Security license applies to the entire CDB; you cannot license individual PDBs. When you purchase a license to use Oracle Label Security on Oracle Database Enterprise Edition (EE or EE-ES), the licensing metrics for Oracle Label Security must match the licensing metrics for 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.

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

Option	Availability	Included Features
Oracle Multitenant	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS/CC	 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/CC, the ability to have up to 4096 pluggable databases per multitenant container database Note: For licensing purposes, one non-CDB instance is equivalent to one user-created PDB inside one CDB.
Oracle On-Line Analytical Processing (OLAP)	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS/CC	features:OLAP Cube Definition, Storage, and Querying
Oracle Partitioning	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS/CC	Partitioning:Table Partitions and Subpartitions
Oracle RAC One Node	Extra cost option: EE , EE-ES	 Oracle RAC One Node includes the following features: Database Cold Failover to another node in the cluster in case of server or instance failure Online migration of the database instance to another server Support for online rolling upgrades of the database, grid infrastructure, and OS homes Online upgrade to Oracle Real Application Clusters Policy-managed Server Pools Quality of Service Management Application Continuity Zero-Downtime Oracle Grid Infrastructure Patching
Oracle Real Application Clusters (Oracle RAC)	Extra cost option: EE , EE-ES Included option: DBCS EE-EP , ExaCS/CC	 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
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Option	Availability	Included Features	
Option Oracle Real Application Testing		 Included Features Oracle Real Application Testing includes the following features: Database Replay SQL Performance Analyzer (SPA) Database Migration Planner Database Migration Workbench Database Replay The Oracle Real Application Testing license is required on both capture and replay systems for Database Replay and is charged by the total number of CPUs on those systems. Use of Capture and Replay ASH Analytics Reports, Compare Period ADDM Reports, and Replay Compare Period Reports also requires an Oracle Diagnostics Pack license. An Oracle Real Application Testing license permits you to access Database Replay functionality through Oracle Enterprise Manager, as well as through the following database server command-line APIs: DBMS_WORKLOAD_CAPTURE package and DBMS_WORKLOAD_REPLAY package. The use of the DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT() function also requires a license for Oracle Diagnostics Pack. SQL Performance Analyzer (SPA) An Oracle Real Application Testing license permits you to access SQL Performance Analyzer functionality through Oracle Enterprise Manager, as well as through the following database server command-line API: DBMS_SQLPA package, which is part of the Oracle Real Application Testing option. Database Migration Planner Database Migration Planner, introduced in Oracle Enterprise Manager Cloud Control 13c, provides a data-driven and systematic approach to consolidation by eliminating guess wor and human errors. Use of the consolidation planning feature of Database Migration Planner requires an Oracle Diagnostics Pack license. An Oracle Real Application Testing license permits you to access the following links on the Database Migration Planner page in Oracle Enterprise Manager:	
		 From the Enterprise menu, select Migration and Consolidation, then select Database Migration Planner. On the database target home page, select the Administration menu, then select Database Migration Planner. 	
		 All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Migration Planner. Database Migration Workbench 	
			 Database Migration Workbench, introduced in Oracle Enterprise Manager Cloud Control 13c Release 4, is a single workbench that integrates all needs for migration sizing and performance comparison.

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

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

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

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.



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

Table 1-15 Ora	cle Management Pac	ks and Their P	ermitted Features
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Management Pack	Availability	Included Features	
		Starting on the Enterprise Summary home page, click the Setup menu. Select:	
		Cloud. Select Infrastructure	
		Cloud. Select Database	
		• Provisioning and Patching, then Storage Registration On the Multitenant container database's home page, from the Oracle Database menu, select Provisioning, then Provision Pluggable Database. Next, from the PDB Operations section, select Create New Pluggable Databases. Click Launch, and from Pluggable Database Creation Options, select Clone an Existing PDB -> Snap Clone.	
		Licensed APIs:	
		Use of the following APIs requires a license for Oracle Cloud Management Pack for Oracle Database:	
		 Assembly Operations — Any POST/GET/PUT/DELETE on /em/ cloud/iaas URI space for Resources Assembly Template and Assembly Instance 	
		 DBaaS Operations — Any POST/GET/PUT/DELETE on /em/ cloud/dbaas URI space 	
		 DBaaS Setup Operations — Any POST/GET/PUT/DELETE on /em/websvcs/restful/extws/cloudservices/ admin/cfw/v1 URI space. 	
		Licensed Command Line Interface (CLI) Verbs:	
		The following Enterprise Manager Command Line Interface (CLI) verbs are licensed as part of Oracle Cloud Management Pack for Oracle Database. These verbs operate on a database pool.	
		• add_pool_members	
		 create_charge_item 	
		• create_dbaas_quota	
		• create_dbprofile	
		• create_pool	
		 create_service_template 	
		 delete_charge_item 	
		• delete_dbaas_quota	
		• delete_pool	
		 delete_service_template 	
		• get_dbaas_quota	
		• get_dbaas_request_settings	
		• get_metering_data	
		• get_pool_capacity_data	
		 get_pool_capacity_summary_data 	
		• get_pool_constraints	
		• get_pool_criteria	
		get_pool_detailget_pool_instance_data	
		get_pool_instance_dataget_pool_target_type	
		 get_pool_target_type get_pools 	
		get_poorsget_service_template	

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

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

Table 1-15 (Cont.) Oracle M	Management Packs and Their Permitted Features
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Oracle Data Masking and Subsetting Pack Extra cost pack: EE, EE-ES Features: Cracle Data Masking and Subsetting Pack includes the following features: DBCS EE-EP, ExaCS/CC Application Data Modeling Data Masking Pormats Library Data Masking Pormats Library Data Subsetting Definitions Data Modeling Data Modeling, Data Modeling Data Modeling Data Modeling Command Line Interface (CLI) verbs Application Data Modeling Data Masking templates for select versions of Oracle E-Business Suite Data Masking templates for select versions of Oracle E-Business Suite Data Masking and Subsetting Pack includes the following restricted use licenses: Data Datase Gateway for NDA Database Gateway for SQLServer Database Gateway for Toracle Data Masking and Subsetting Pack for non-Oracle Data Masking and Subsetting Pack, then you must purchase full-use licenses for the Oracle Database Gateways stage the data in a separately licensed Oracle Database Cracle Data Masking and Subsetting Pack must be licensed only for the source databases Grow which masking and Subsetting Pack for non-Oracle Data Masking and Subsetting Pack for the database. Oracle Data Masking and Subsetting Pack must be licensed only for the source database server, i.e., the databases. Oracle Data Masking an
All features, functions, links, buttons, and drill-downs on these

 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 Enterprise menu, then Quality Management, then select:
		 Application Data Modeling Data Masking Definitions Data Masking Formats Data Subset Definitions From the Oracle database or cluster database target home page, click the Security menu, then select:
		 Application Data Modeling Data Masking Definitions Data Subsetting

Table 1-15	(Cont.) Oracle Management Packs and Their Permitted Features	
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Management Pack	Availability	Included Features
Management Pack Oracle Database Lifecycle Management Pack for Oracle Database	Availability Extra cost pack: EE, EE-ES Included pack: DBCS EE-HP, DBCS EE- EP, ExaCS/CC	Features: Oracle Database Lifecycle Management Pack for Oracle Database includes the following features: Change Activity Plans Client system analyzer Compliance Configuration Collection Extensibility Configuration Compare Configuration Instance Browser Configuration Save Configuration Topology Copy Objects Database Patching Database Patching Database Provisioning Database Provisioning Database Volgrade 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 Out Real-time configuration change detection Schema and Data Comparisons Schema and Data Comparisons Schema and Data Synchronization Schema Comparisons User Defined Deployment Procedures (UDDP) With the purchase of Oracle Database Lifecycle Management Pack for Oracle Databa
		 Real-time configuration change detection Real-time schema change detection Schema and Data Comparisons Schema and Data Synchronization Schema Change Plans Schema Comparisons User Defined Deployment Procedures (UDDP) With the purchase of Oracle Database Lifecycle Management Pack for Oracle Database, you also are entitled to the features described
		 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 everyone that has an Oracle Support contract. Use of OPlan metadata to drive 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 Self Update Licensed Parameters:
		The init.ora parameter ENABLE_DDL_LOGGING is licensed as part of Oracle Database Lifecycle Management Pack for Oracle

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

Management Pack	Availability	Included Features
		Database when set to 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 drill- downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		• From the Oracle database or cluster database target home page, click the Oracle Database menu, then Provisioning . All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – Database Upgrade:
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		 From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. All Procedures that Upgrade a Database are licensed with Oracle Database Lifecycle Management Pack for Oracle Database.
		 From the Oracle database or cluster database target home page, click the Oracle Database menu, then Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – User Defined Deployment Procedures (UDDP)
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		 From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. On the Provisioning Library page, from the list of actions, the Create New option is licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – RAC Scale Out and Scale Back

Management Pack	Availability	Included Features
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		• From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. All Procedures that Extend or Scale a database or RAC are licensed with Oracle Database Lifecycle Management Pack for Oracle Database.
		 From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Database Provisioning. All features, functions, links, buttons, and drill- downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		• From the Oracle cluster database target home page, click the Oracle Database menu, then Provisioning . All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – Database Patching
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		 From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. All Procedures that patch a database, Clusterware or Real Application Clusters are licensed with Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – Offline Patching
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		 From the Enterprise Manager home page, click the Setup menu, Provisioning and Patching, then Offline Patching. From the Online and Offline Setting tab, the Connection, Offline setting is licensed with Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – Configuration Instance Browser
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		 From the Enterprise Manager home page, click on Targets, Databases, and select a Database. From the database home page, click on Oracle Database, Configuration. All features, functions, links, buttons, and drill-downs on this menu, excluding Topology, are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		 If the Target Home Page is accessed directly or by other paths:
		 From the database home page, click on Oracle Database,
		Configuration . All features, functions, links, buttons, and drill-downs on this menu, excluding Topology, are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

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

Management Pack	Availability	Included Features
		Licensed Links – Configuration Search
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		 From the Enterprise Manager home page, click the Enterprise menu, then Configuration and Search. All features, functions links, buttons, and drill-downs on this page are licensed as par 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 par 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 Pac 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 par of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – Configuration Topology
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		 From the Target Home Page, click on Oracle Database, Configuration, Topology. In the View Dropdown, Used By is licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		 From the Target Home Page, click on Oracle Database, Configuration, Topology, Customization. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		 If the Target Home Page is accessed directly or by other paths From the Target Home Page, click on Oracle Database, Configuration, Topology. In the View drop-down, Used

Management Pack	Availability	Included Features
		By is licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		 From the Target Home Page, click on Oracle Database, Configuration, Topology, Customization. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – Configuration Collection Extensibility
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		 From the Enterprise Manager home page, click the Enterprise menu, then Configuration and Custom. All features, functions, links, buttons, and drill-downs on this page are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – File Synchronization
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		 When viewing comparison results differences as described in the Configuration Compare feature, select the configuration specification in the tree on the left. Select Enable File Synchronization. All features, functions, links, buttons, and drill-downs on this page are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – Schema Comparison:
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		• From the Enterprise Manager home page, click on Targets , Databases , and then select a Database. From the database home page, click on Schema , Change Management . All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		• If the Target Home Page is accessed directly or by other paths:
		 From the database home page, click on Schema, Change Management. All features, unctions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – Schema and Data Comparisons:
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		• From the Enterprise Manager home page, click on Targets , Databases , and then select a Database. From the database home page, click on Schema , Change Management . All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

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

Management Pack Availa	lity Included Features
	 If the Target Home Page is accessed directly or by other paths:
	 From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
	Licensed Links – Schema and Data Synchronization:
	Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
	 From the Enterprise Manager home page, click on Targets, Databases, and then select a Database. From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Managemen 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 Managemen 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 Managemen 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

Management Pack	Availability	Included Features
		drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – Real-time Configuration Change Detection and Compliance:
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		 From the Enterprise Manager home page, click the Enterprise menu and Compliance. All features, functions, links, buttons, and drill-downs associated with the Library, Results and Real- Time Observations pages are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Reports:
		The following reports are part of Oracle Database Lifecycle Management Pack for Oracle Database. All reports in each of thes 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
		 export_compliance_standard_rule

Management Pack	Availability	Included Features
		• export_facet
		• export_standard
		 fix_compliance_state
		 get_config_searches
		 get_config_templates
		• get_executions
		• get_instance_data
		 get_instance_status
		• get_instances
		 get_oms_config_property
		 get_procedure_types
		 get_procedure_xml
		• get_procedures
		• get_retry_argument
		 get_saved_configs
		• ignore_instance
		 import_compliance_object
		 list_oms_config_properties
		 remove_cs_target_association
		 reschedule_instance
		• resume_instance
		• run_config_search
		• save_procedure
		 set_config_history_retention_period
		• stop_instance
		• submit_procedure
		• suspend_instance
		• update_and_retry_step
		• update_procedure_input
		• upgrade_database
		Licensed Repository Views – Compliance Views: The following compliance views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:
		• MGMT\$CCC_ALL_OBS_BUNDLES
		MGMT\$CCC_ALL_OBSERVATIONS
		• MGMT\$CCC_DIAG_ANALYTICS
		• MGMT\$CCC_DIAG_QUEUEBACKLOG
		MGMT\$COMPLIANCE_STANDARD
		MGMT\$COMPLIANCE_STANDARD_GROUP
		• MGMT\$COMPLIANCE_STANDARD_RULE
		MGMT\$COMPOSITE_CS_EVAL_SUMMARY
		• MGMT\$CS_ASM_DISKGRP_SETTINGS
		• MGMT\$CS_DB_CONTROL_FILE_COUNT
		• MGMT\$CS_DB_INIT_PARAMS
		• MGMT\$CS_DB_RBS_IN_SYSTEM
		 MGMT\$CS_DB_REC_SEG_SETTINGS

Management Pack	Availability	Included Features
		MGMT\$CS_DB_REC_TS_SETTINGS
		• MGMT\$CS_DB_REC_USER_SETTINGS
		• MGMT\$CS_DB_REDO_LOG_COUNT
		• MGMT\$CS_DB_REDO_LOGS
		• MGMT\$CS_DB_TABLESPACES
		 MGMT\$CS_DB_TBSP_SEGSPACE_MGMT
		MGMT\$CS_EVAL_SUMMARY
		• MGMT\$CS_FEATURE_USAGE
		MGMT\$CS_GROUP_EVAL_SUMMARY
		 MGMT\$CS_GROUP_KEYWORD
		• MGMT\$CS_HA_INFO
		• MGMT\$CS_HIERARCHY
		• MGMT\$CS_KEYWORD
		• MGMT\$CS_RQS_HIERARCHY
		• MGMT\$CS_RULE_ATTRS
		• MGMT\$CS_RULE_EVAL_SUMMARY
		• MGMT\$CS_RULEFOLDER
		MGMT\$CS_TARGET_ASSOC
		 MGMT\$CS_TGT_ASSOC_TXF_REQ MGMT\$CSG_HIERARCHY
		 MGMT\$CSG_SUBGROUP MGMT\$CSR_CURRENT_VIOLATION
		 MGMT\$CSR_CORRENT_VIOLATION MGMT\$CSR_TARGET_ASSOC
		 MGMT\$CSR_TARGET_ASSOC MGMT\$CSR_VIOLATION_CONTEXT
		 MGMT\$CSRF_TARGET_ASSOC
		 MGMT\$EM_CS_RULE_EVENT_ERROR
		 MGMT\$EM_RULE_VIOL_CTXT_DEF
		 MGMT\$ICS_TARGET_ASSOC
		 MGMT\$REPO_RULE_CHK_DETAILS
		 MGMT\$REPOSITORY_RULE_BIND_VARS
		 MGMT\$REPOSITORY_RULE_PARAMS
		• MGMT\$RULE_KEYWORD
		Licensed Repository Views – Provisioning and Patching Views
		The following provisioning and patching views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:
		• EM\$PROV_APPTYPES
		EM\$PROVAPP_METADATA
		EM\$PROVAPP_METADATA_VERSION
		EM\$PROVAPP_TAG_PROPERTIES
		• EM\$PROVAPP_TAGS
		• MGMT\$PA_RECOM_METRIC_SOURCE
		Licensed Repository Views – Patching Views:
		The following patching views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:

• GC\$EM_PC_PLAN_PATCHES

Management Pack	Availability	Included Features
		• GC\$EM_PC_PLANS
		• GC\$EM_PC_PLAN_TARGETS
		• GC_PC_EXECUTION_INSTANCES
		• GC_PC_PLAN_ANALYSIS_RS
		• GC_PC_PLAN_REMEDY
		• GC_PC_PLAN_REMEDY_DETAILS
		• GC_PC_PLAN_USERS
		• GC_PC_TARGETS
		 MGMT\$APPLIED_PATCHES
		 MGMT\$APPLIED_PATCHSETS
		 MGMT\$ARU_FAMILY_PRODUCT_MAP
		• MGMT\$ARU_LANGUAGES
		 MGMT\$ARU_PATCH_RECOMMENDATIONS
		• MGMT\$ARU_PLATFORMS
		 MGMT\$ARU_PRODUCT_RELEASE_MAP
		MGMT\$ARU_PRODUCTS
		• MGMT\$ARU_RELEASES
		• MGMT\$ARU_TARGETS
		 MGMT\$PA_AFFTED_HOST_GUID_OH
		 MGMT\$PA_AFFTED_HOST_OH
		 MGMT\$PA_AFFTED_TARGETS
		 MGMT\$PA_FINAL_PATCH_LIST
		 MGMT\$PA_TARGET_MAPPING
		 MGMT\$PR_APPL_PATCHES_TO_OH
		 MGMT\$PR_APPL_PATCHES_TO_OH_TGT
		• MGMT\$PR_HOME_INFO
		 MGMT\$PR_HOMES_AFFECTED_COUNT
		 MGMT\$RECOM_METRIC_SOURCE
		Licensed Repository Views – Configuration Views:
		The following configuration views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:
		 GC\$ECM_COMP_PROPERTIES
		GC\$ECM_CONFIG_SUMMARY
		• GC\$ECM_CURR_CONFIG
		 GC\$ECM_CURR_CONFIG_FLAT_MEMS
		 GC\$ECM_CURR_CONFIG_SNAPSHOTS
		 GC\$ECM_CURR_TARGET_SNAPSHOTS
		 GC\$ECM_DATA_RETENTION_TIME
		GC\$ECM_GEN_SNAPSHOT
		• GC\$ECM_SAVED_CONFIG
		 GC\$ECM_SAVED_CONFIG_FLAT_MEMS
		 GC\$ECM_SAVED_CONFIG_SNAPSHOTS
		 GC\$ECM_SAVED_CONFIG_TARGETS
		 GC\$ECM_SAVED_TARGET_SNAPSHOTS
		• MGMT\$CCS_DATA
		 MGMT\$CCS_DATA_SOURCE

Management Pack Availability	Included Features
	• MGMT\$CCS_DATA_SOURCE_VISIBLE
	• MGMT\$CCS_DATA_VISIBLE
	• MGMT\$DB_CONTROLFILES
	• MGMT\$DB_DATAFILES
	• MGMT\$DB_DBNINSTANCEINFO
	• MGMT\$DB_FEATUREUSAGE
	• MGMT\$DB_INIT_PARAMS
	• MGMT\$DB_LICENSE
	• MGMT\$DB_OPTIONS
	• MGMT\$DB_REDOLOGS
	• MGMT\$DB_ROLLBACK_SEGS
	• MGMT\$DB_SGA
	• MGMT\$DB_TABLESPACES
	• MGMT\$DB_TABLESPACES_ALL
	• MGMT\$ECM_CMP_JOB_LAST_RESULTS
	• MGMT\$ECM_CMP_JOBS
	 MGMT\$ECM_CMP_RPT_CCS_DS
	• MGMT\$ECM_CMP_RPT_CCS_DS_DTLS
	• MGMT\$ECM_CMP_RPT_CCS_PD_ALL
	 MGMT\$ECM_CMP_RPT_CCS_PD_DIFFS
	• MGMT\$ECM_CMP_RPT_CI_DIFFS
	• MGMT\$ECM_CMP_VISIBLE_CONFIGS
	• MGMT\$ECM_CURRENT_SNAPSHOTS
	• MGMT\$ECM_VISIBLE_SNAPSHOTS
	• MGMT\$SERVICETAG_INSTANCES
	• MGMT\$SERVICETAG_REGISTRY
	 MGMT\$UNPATCHABLE_DB_TARGETS
	Licensed Repository Views – Oracle Home Patching Views:
	The following Oracle home patching views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:
	 MGMT\$APPLIED_PATCHES
	• MGMT\$APPLIED_PATCHSETS
	 MGMT\$APPL_PATCH_AND_PATCHSET
	 MGMT\$CPF_ADVISORY_INFO
	 MGMT\$CPF_HOMES_INFO
	 MGMT\$CPF_PATCH_INFO
	MGMT\$EM_HOMES_PLATFORM
	MGMT\$HOMES_AFFECTED
	• MGMT\$OH_CLONE_PROPERTIES
	• MGMT\$OH_COMP_DEP_RULE
	• MGMT\$OH_COMP_INST_TYPE
	• MGMT\$OH_COMPONENT
	• MGMT\$OH_CRS_NODES
	• MGMT\$OH_DEP_HOMES
	• MGMT\$OH_FILE
	• MGMT\$OH_HOME_INFO

Management Pack	Availability	Included Features
		• MGMT\$OH_INSTALLED_TARGETS
		• MGMT\$OH_INV_SUMMARY
		• MGMT\$OH_PATCH
		• MGMT\$OH_PATCHED_COMPONENT
		• MGMT\$OH_PATCHED_FILE
		 MGMT\$OH_PATCH_FIXED_BUG
		• MGMT\$OH_PATCHSET
		 MGMT\$OH_VERSIONED_PATCHV
		• MGMT\$PATCH_ADVISORIES
		Licensed Repository Views – Security Views:
		The following security views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:
		 MGMT\$ESA_ALL_PRIVS_REPORT
		• MGMT\$ESA_ANY_DICT_REPORT
		• MGMT\$ESA_ANY_PRIV_REPORT
		 MGMT\$ESA_AUDIT_SYSTEM_REPORT
		 MGMT\$ESA_BECOME_USER_REPORT
		 MGMT\$ESA_CATALOG_REPORT
		 MGMT\$ESA_CONN_PRIV_REPORT
		 MGMT\$ESA_CREATE_PRIV_REPORT
		 MGMT\$ESA_DBA_GROUP_REPORT
		 MGMT\$ESA_DBA_ROLE_REPORT
		 MGMT\$ESA_DIRECT_PRIV_REPORT
		 MGMT\$ESA_EXMPT_ACCESS_REPORT
		 MGMT\$ESA_KEY_OBJECTS_REPORT
		 MGMT\$ESA_OH_OWNERSHIP_REPORT
		 MGMT\$ESA_OH_PERMISSION_REPORT
		 MGMT\$ESA_POWER_PRIV_REPORT
		 MGMT\$ESA_PUB_PRIV_REPORT
		• MGMT\$ESA_SYS_PUB_PKG_REPORT
		• MGMT\$ESA_TABSP_OWNERS_REPORT
		• MGMT\$ESA_TRC_AUD_PERM_REPORT
		 MGMT\$ESA_WITH_ADMIN_REPORT
		 MGMT\$ESA_WITH_GRANT_REPORT
		Licensed Repository Views – Client Configuration Views:
		The following client configuration views within the repository schemare 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



Management Pack	Availability	Included Features
		• 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
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Management Pack	Availability	Included Features
Management Pack Oracle Diagnostics Pack	Availability Extra cost pack: EE, EE-ES Included pack: DBCS EE, DBCS EE-HP, DBCS EE-EP, ExaCS/CC	Features: Oracle Diagnostics Pack includes the following features:
		 When you click the Setup link, the havigation 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

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

Management Pack	Availability	Included Features
		 For Enterprise Manager Database Control, click the Remove Access radio button for the Diagnostics Pack and click Apply. For Enterprise Manager Cloud Control, click the appropriate check box for the Diagnostics Pack and click Apply. This procedure disables all the links and tabs associated with Oracle Diagnostics Pack in Enterprise Manager. All the disabled links and tabs are part of Oracle Diagnostics Pack and therefore require a pack license. Licensed Command-Line APIs: Oracle Diagnostics Pack features can also be accessed by way of database server APIs and command-line interfaces: The DBMS_ADDM, DBMS_PERF, DBMS_UMF, and DBMS_WORKLOAD_REPOSITORY packages are part of this pack. The DBMS_ADVISOR package is part of this pack if you specify ADDM as the value of the advisor_name parameter, or if you specify for the value of the task_name parameter any value starting with the ADDM prefix. The DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT function is part of this pack. The DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT function is part of this pack. The DBMS_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 par of this pack if queries to these views return rows with the value ADDM in the ADVISOR_NAME column or a value of ADDM* in the TASK_NAME column or the corresponding TASK_ID. The following reports found in the /rdbms/admin/ directory of the Oracle home directory are part of this pack: awrrpt.sql, awrrpti.sql, awrgrpt.sql, awrgrpti.sql, awrgdrpt.sql,

Management Pack	Availability	Included Features
		awrgdrpi.sql, addmrpt.sql, addmrpti.sql, ashrpt.sql, ashrpti.sql, awrddrpt.sql, awrddrpi.sql, awrsqrpi.sql, awrsqrpt.sql, awrextr.sql, awrload.sql, awrinfo.sql, spawrio.sql, and spawrrac.sql.
		Licensed Repository Views – Monitoring Views:
		The following monitoring views are licensed under Oracle Diagnostics Pack:
		• MGMT\$ALERT_ANNOTATIONS
		• MGMT\$ALERT_CURRENT
		• MGMT\$ALERT_HISTORY
		• MGMT\$ALERT_NOTIF_LOG
		• MGMT\$AVAILABILITY_CURRENT
		 MGMT\$AVAILABILITY_HISTORY
		 MGMT\$BLACKOUT_HISTORY
		• MGMT\$BLACKOUTS
		MGMT\$METRIC_COLLECTIONS
		• MGMT\$ALERT_CURRENT
		 MGMT\$METRIC_DAILY
		 MGMT\$METRIC_DETAILS
		• MGMT\$METRIC_HOURLY
		 MGMT\$TARGET_METRIC_COLLECTIONS
		 MGMT\$TARGET_METRIC_SETTINGS
		Licensed Repository Views – Template Views:
		The following template views are licensed under Oracle Diagnostic: Pack:
		• MGMT\$TEMPLATES
		MGMT\$TEMPLATE_METRIC_COLLECTION
		• MGMT\$TEMPLATE_METRIC_SETTINGS
		• MGMT\$TEMPLATE POLICY SETTINGS

Management Pack	Availability	Included Features
Oracle Tuning Pack	Extra cost pack: EE,	Features:
	EE-ES Included pack: DBCS EE, DBCS EE-HP,	Oracle Tuning Pack includes the following features:
		SQL Access Advisor
		SQL Tuning Advisor
	DBCS EE-EP, ExaCS/CC	Oracle Database In-Memory Advisor
		Automatic SQL Tuning
		SQL Profiles
		 Real-time SQL and PL/SQL Monitoring
		Real-time Database Operations Monitoring
		Reorganize objects
		A new initialization parameter,
		CONTROL_MANAGEMENT_PACK_ACCESS, is introduced to control access to Oracle Diagnostics Pack and Oracle Tuning Pack in the database server. This parameter can be set to one of three values
		• DIAGNOSTIC+TUNING: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is enabled in the database server.
		DIAGNOSTIC: Only Oracle Diagnostics Pack functionality is
		enabled in the server.
		NONE: Oracle Diagnostics Pack and Oracle Tuning Pack
		functionally is disabled in the database server.
		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, whice 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 cli Apply.
		 For Enterprise Manager Cloud Control, click the appropriate check box for the Tuning Pack and click Appl
		This procedure disables all the links and tabs associated with Oracle Tuning Pack in Enterprise Manager. All the disabled links a tabs are part of Oracle Tuning Pack and therefore require a pack license.
		Licensed Command Line APIs:
		Oracle Tuning Pack features can also be accessed by way of database server APIs and command-line interfaces:
		• DBMS_ADVISOR, when the value of the advisor_name parameter is either SQL Tuning Advisor or SQL Access Advis
		• DBMS AUTO SOLTUNE

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

• DBMS_AUTO_SQLTUNE

Management Pack	Availability	Included Features
		• 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 the on-premise Oracle Database Enterprise Edition, then you can use certain subprograms of the DBMS_SQLTUNE package even if you do not have an Oracle Tuning Pack license. See the SQL Tuning Sets entry in Table 1-6 for more information.

1.6 Checking for Feature, Option, and Management Pack Usage

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

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

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

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

https://support.oracle.com

2. Log in to My Oracle Support.

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

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

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

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



Note:

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

1.7 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 1-16Special 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 (TDE), 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 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 Automatic Storage Management (Oracle ASM)	Oracle ASM is free to use with all Oracle databases and Oracle ACFS file systems.		
Oracle Clusterware	Oracle Clusterware provides cluster membership and high availability monitoring and failover. Oracle Clusterware may be used to protect any application (restarting or failing over the application in the event of a failure) on any server, free of charge. Oracle will provide support for Clusterware only if the server is running an Oracle product that is under a valid Oracle support contract. Examples of such products include, but are not limited to, Oracle Linux, Oracle Solaris, Oracle Database, and Oracle Fusion Middleware.		
Oracle Connection Manager	Oracle Connection Manager can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Connection Manager.		
Oracle Data Guard broker	You can install the broker command line interface DGMGRL and run the observer software on computer systems that are separate from the Oracle Data Guard primary and standby systems. It is not necessary to obtain a separate license for a system hosting the observer.		
Oracle Database Backup Cloud Service	 Oracle Database Backup Cloud Service includes use of the following two features from the Oracle Advanced Security option or the Oracle Advanced Compression option at no additional cost: RMAN backup encryption All RMAN backup compression algorithms To use additional features of the Oracle Advanced Security option or the Oracle Advanced Compression option, you must license those options separately. In addition, the Oracle Advanced Security option must be separately licensed when performing RMAN encrypted backups directly to disk. 		
Oracle Database Gateway for ODBC	Oracle Database Gateway for ODBC can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Gateway for ODBC.		
Oracle Database Provider for DRDA	Oracle Database Provider for DRDA can be installed and used on a machine different from the machine where the Oracle Database is installed and used. 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	icensing 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 Oracle9 <i>i</i> Database Release 2 or Oracle Database 10g.	
	The functionality available on Oracle9 <i>i</i> Database Release 2 is as follows:	
	• Database Replay : Only the Workload Capture feature is supported, and the captured workload may only be replayed only on Oracle Database 11g. This feature can be used only to facilitate upgrades from Oracle 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:	
	 Database Replay: Only the Workload Capture feature is supported, and the captured workload may be replayed only on Oracle Database 11g. This feature can be used only to facilitate upgrades from Oracle Database 10g Release 2 to Oracle Database 11g. 	
	• SQL Performance Analyzer: Only the Remote SQL Test Execute and SQL Capture into SQL Tuning Set features are supported. These features can be used only to facilitate upgrades from Oracle9 <i>i</i> 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 9 <i>i</i> 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 includes restricted use licenses for:	
Oracle Secure Backup Cloud Module	RMAN backup encryption to tape or Amazon S3	
	 RMAN backup compression leveraging LOW, MEDIUM, BASIC or HIGH algorithms 	
	The Oracle Secure Backup special-use licenses apply to RMAN backup encryption, which is a component of the Oracle Advanced Security option, and RMAN backup compression levels, which are components of the Oracle Advanced Compression option. To use additional features of the Oracle Advanced Security option or the Oracle Advanced Compression option, you must license those options separately. In addition, the Oracle Advanced Security option must be licensed when performing RMAN encrypted backups directly to disk whether or not Oracle Secure Backup is the media manager.	
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.	

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: Spatial Geocoder Spatial Routing engine Spatial Web Services Property Graph client In-memory analyst (PGX) Spatial Visualization component Spatial Studio For more information, see Oracle Spatial and Graph Developer's Guide and Oracle Spatial and Graph Property Graph Developer's Guide. 		
Oracle Wallet	An Oracle Wallet is a PKCS#12 container used to store authentication and encryption keys. The Oracle database secure external password store fea stores passwords in an Oracle Wallet for password-based authentication to Oracle database. The Oracle Wallet may also be used to store credentials PKI authentication to the Oracle Database, configuration of network encry (SSL/TLS), and Oracle Advanced Security transparent data encryption (TI master encryption keys. Network encryption (native network encryption, network data integrity, and SSL/TLS) and strong authentication services (Kerberos, PKI, and RADIUS) are no longer part of Oracle Advanced Secu and are available in all licensed editions of all supported releases of Oracl 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 provides application programming interfaces (APIs) that applications to receive real-time data changes from an Oracle da XStream Out APIs) and to send real-time data changes to an Ora (using XStream In APIs). These data changes can be shared bet databases and other systems, such as filesystems and non-Orac XStream is licensed via the Oracle GoldenGate product. You must license for this product before using the XStream APIs. Please co Oracle sales representative for additional information.			

Table 1-16 (Cont.) Special License Rights

1.8 Restricted Use Licenses

	Table 1-17	Restricted Use Licenses	
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Feature / Option	Licensing Information	
AQ Sharded Queues	Restricted use of Oracle Partitioning is allowed on all offerings, free of charge, for the sole purpose of supporting AQ Sharded Queues. All other uses of Oracle Partitioning require a license for the Oracle Partitioning option, where available.	



Feature / Option	Licensing Information
Oracle Advanced Compression Oracle Advanced Security	 Restricted use licenses for Oracle Advanced Compression and Oracle Advanced Security are granted when performing either of the following migrations: Oracle Zero Downtime Migration Oracle Cloud Infrastructure Database Migration (DMS) These restricted use licenses are in effect only while the migration is being performed and apply solely for the purposes of the migration operation. All other uses of Oracle Advanced Compression and Oracle Advanced Security require a license.
Oracle Advanced Security	 Any Oracle Advanced Security licenses purchased on or before January 31, 2004, have restricted use of the Oracle Internet Directory (OID) component of Oracle Directory Services Plus to support Enterprise User Security. Oracle Advanced Security includes a restricted use license for the following Oracle Enterprise Manager features: Application Data Models (previously called Data Discovery and Modeling) Sensitive Column Types and Sensitive Data Discovery Application Accelerators If you want to use the Oracle Enterprise Manager features listed above not solely for the purposes of Oracle Advanced Security, then you must purchase a 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, and Application Express, 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) and Oracle Partitioning. These options may be used only to support Oracle Applications Unlimited and may not be used or deployed for any other purpose.
Oracle Big Data SQL	Oracle Big Data SQL includes a Query Server that is used to query data sources including HDFS, Kafka, and NoSQL stores. Oracle Big Data SQL includes a restricted use license of Oracle Database for storing metadata (i.e. external tables and views) maintained by the Query Server. No other objects may be created in this Oracle Database.

Table 1-17 (Cont.) Restricted Use Licenses

Feature / Option	Licensing Information		
Oracle Database Mobile Server	Oracle Database Mobile Server is a powerful tool for controlling networks of mobile or embedded devices from a centralized management console. It provides a secure, scalable method for connecting applications running locally on mobile or embedded devices to an Oracle enterprise backend. The synchronization system is robust and fault tolerant. It is able to successfully synchronize over unreliable or intermittently available networks. Oracle Database Mobile Server provides management for applications, users, and devices. It runs on a variety of application server platforms, including Oracle WebLogic, Oracle Glassfish, and Apache TomEE.		
	On the client device side, it is designed to work with Oracle Berkeley DB as a data store, providing efficient, reliable, and secure data management running locally on mobile and embedded devices. It is also compatible with SQLite, a widely used open source data store. Database Mobile Server supports many popular device platforms including Oracle Java, Linux, Windows (laptop as well as mobile/CE), and Android.		
Oracle Database Vault	Oracle Database Vault includes a restricted use license for the following Oracle Enterprise Management features:		
	 Application Data Modeling (previously called Data Discovery and Modeling) Application Data Modeling accelerator for select versions of Oracle E- Business Suite Application Data Modeling accelerator for select versions of Oracle Fusion 		
	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 runnin 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 Plu 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) Sensitive Column Types and Sensitive Data Discovery Application Accelerators If you want to use the Oracle Enterprise Manager features listed above not solely for the purposes of Oracle Label Security, then you must purchase a full-use license for Oracle Data Masking and Subsetting Pack. 		
Oracle Programmer	Oracle Programmer provides application programmers with a programmatic interface to any edition of Oracle Database. However, in order to user Oracle Programmer, you must purchase a separate Oracle Programmer license.		
	Oracle Programmer includes the following products:		
	 Embedded SQL-style interfaces: Pro*C/C++, Pro*COBOL, Pro*Fortran, SQL*Module for Ada, SQLJ 		
	 Utilities to generate host-language bindings from database schemas: Object Type Translator and JPub 		

Table 1-17 (Cont.) Restricted Use Licenses

Feature / Option	Licensing Information
Oracle Radius Agent	A restricted use license for Oracle Identity Management Directory Services Plus component Oracle Radius Agent (ORA) is included with all editions (except for Oracle Database Express Edition) if users use Oracle Unified Directory/Oracle Internet Directory/Microsoft Active Directory for first-factor authentication. ORA may not be used or deployed for use with other Radius services. For MFA capabilities, additional licensing would be required, refer to Oracle Identity and Access Management Independent License Offerings.
Oracle Real Application Testing	Restricted use licenses of Load Testing Accelerator for Oracle Database, Oracle Load Testing, and Oracle Load Testing Controller are included with Oracle Real Application Testing for use for Oracle Database testing and may not be used for application testing.
Oracle Secure Backup Express	Oracle Secure Backup Express is a centralized tape backup management solution that provides data protection for single-server Oracle Database environments. A restricted use license for Oracle Secure Backup Express is included with all Oracle Database editions. Oracle Secure Backup Express is limited to a single host with one direct-attached tape drive and has some restrictions on advanced feature usage. Refer to the <i>Oracle Secure Backup</i> <i>Licensing Information</i> for additional information.
Oracle Sharding	Oracle Sharding includes a restricted use license for Global Data Services.
	If you want to use Global Data Services not solely for the purposes of Oracle Sharding, then you must be licensed for the Oracle Active Data Guard option.
Oracle Spatial and Graph	Restricted use of Oracle Partitioning is allowed on all offerings, free of charge, for the sole purpose of supporting the following Spatial, Property Graph, and RDF Graph Technologies (RDF/OWL) features: spatial topology, property graph schema, and RDF Semantic Graph. All other uses of Oracle Partitioning require a license for the Oracle Partitioning option, where available.

Table 1-17 (Cont.) Restricted Use Licenses

2 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
- Written Offer for Source Code

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
MapInfo Corp.	Projections Code 1.0	Portions of this software Copyright 1992-2000, MapInfo Corporation, ALL RIGHTS RESERVED.
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.



Provider	Component(s)	Licensing Information
ANTLR	Antir 3.2	 ANTLR 3 License [The BSD License] Copyright (c) 2003-2007, Terence Parr All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Apache	Apache Commons Math 3.6.1	For a copy of the license, see Apache Commons Math 3.6.1 License.
Apache	Apache Tomcat 8.5.37	For a copy of the license, see Apache Tomcat 8.5.37 License.
Apache	Batik SVG Toolkit 1.10	For a copy of the license, see Batik SVG Toolkit 1.10 License.
Apache	Commons Beanutils 1.9.3	This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	Commons CSV 1.5	This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.

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

Provider	Component(s)	Licensing Information
Apache	Commons Compress	Commons Compress 1.18
	1.18	COPYRIGHT: Copyright 2002-2018 The Apache Software Foundation
		LICENSE: Apache 2.0
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
		4P Dependencies:
		From Notice File:
		The files in the package
		org.apache.commons.compress.archivers.sevenz were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/), which has been placed in the public domain:
		"LZMA SDK is placed in the public domain." (http://www.7-zip.org/ sdk.html)
		Anyone is free to copy, modify, publish, use, compile, sell, or distribute the original LZMA SDK code, either in source code form or as a compiled binary, for any purpose, commercial or non- commercial, and by any means.
Apache	Commons FileUpload	Apache Commons FileUpload
	1.4	Copyright 2002-2017 The Apache Software Foundation
		This product includes software developed at
		The Apache Software Foundation (http://www.apache.org/).
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.

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

Provider	Component(s)	Licensing Information
Apache	Commons IO 2.6	Copyright Header:
		/*
		* Licensed to the Apache Software Foundation (ASF)
		under one or more
		* contributor license agreements. See the NOTICE file distributed with
		* this work for additional information regarding
		copyright ownership.
		* The ASF licenses this file to You under the Apache License, Version 2.0
		* (the "License"); you may not use this file except in
		compliance with
		* the License. You may obtain a copy of the License at
		<pre>* http://www.apache.org/licenses/LICENSE-2.0</pre>
		*
		* Unless required by applicable law or agreed to in
		writing, software * distributed under the License is distributed on an
		"AS IS" BASIS,
		* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
		express or implied.
		* See the License for the specific language governing permissions and
		* limitations under the License.
		*/
		Notice
		===== Apache Commons IO
		•
		Copyright 2002-2012 The Apache Software Foundation This product includes software developed by
		The Apache Software Foundation (http://www.apache.org/).
		License Text
		http://www.apache.org/licenses/LICENSE-2.0
		This product is licensed under the Apache 2.0 license agreement.
		See The Apache Software License, Version 2.0.
Apache	Commons Logging	Apache Commons Logging
	1.2	Copyright 2003-2014 The Apache Software Foundation
		This product includes software developed at
		The Apache Software Foundation (http://www.apache.org/).
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.

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

Provider	Component(s)	Licensing Information
Apache	HttpComponents HttpClient 4.5.5	Apache HTTPComponents Client
		Copyright 1999-2017 The Apache Software Foundation
		You may not use the identified files except in compliance with the Apache License, Version 2.0 (the "License.")
		You may obtain a copy of the License at http://www.apache.org/ licenses/LICENSE-2.0. A copy of the license is also reproduced below.
		Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
		See the License for the specific language governing permissions and limitations under the License.
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	HttpComponents HttpClient 4.5.7	For a copy of the license, see HttpComponents HttpClient 4.5.7 License.
Apache	HttpCore 4.4.9	Apache HttpComponents Core 4.4.9
		Copyright 2005-2018 The Apache Software Foundation
		This product includes software developed at
		The Apache Software Foundation (http://www.apache.org/).
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	HttpCore 4.4.11	For a copy of the license, see HttpCore 4.4.11 License.
Apache	Log4J 2.11.1	For a copy of the license, see Log4J 2.11.1 License.
Apache	Lucene 7.5.0	For a copy of the license, see Lucene 7.5.0 License.
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.

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

Provider	Component(s)	Licensing Information
Apache	XMLBeans 2.6.4	This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
		ADDITIONAL LICENSES COVERING PARTS OF THIS DISTRIBUTION:
		This distribution includes W3C XML Schema documents Copyright (c) 2001-2003 World Wide Web Consortium. These schemas are licensed under the W3C Software License, which is included in the same directory as the schemas.
		The license can also be found at:
		http://www.w3.org/Consortium/Legal/2002/copyright- software-20021231.
		License
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		/* Jackson JSON-processor.
		* Copyright (c) 2007- Tatu Saloranta,
		tatu.saloranta@iki.fi
		*/
		package com.fasterxml.jackson.core;
		/**
		* 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
		<pre>proper Jackson version is deployed * (beyond mechanisms that deployment system may have),</pre>
		as well as for possible
		* workarounds.
		*/
		<pre>public interface Versioned { /**</pre>
		* Method called to detect version of the component that implements this interface;
		* returned version should never be null, but may
		return specific "not available" * instance (see {@link Version} for details).
		*/
		Version version();

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- 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

may be obtained from:

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- javaee_6.xsd
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- 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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```
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    co -D2006-11-20 mozilla/js/rhino
```

The patch is available here:

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

which is attached to this bug:

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

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The Rhino jar also includes four classes:

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

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

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

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

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http://java.sun.com/products/jfc/tsc/articles/treetable2

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A.12 Font Awesome 4.5 License

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Version 1.1 - 26 February 2007

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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/libqhull

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C.B. Barber

Arlington, MA

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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
httpclient
```

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4P Dependencies:

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Hamcrest Core (org.hamcrest:hamcrest-core:1.3 - https://github.com/hamcrest/ JavaHamcrest/hamcrest-core)

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Apache HttpComponents Core 4.4.10

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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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| 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       | MIT 1.0           |
| 5655/0J/05.1.0/514party/normatize/normatize.5655       | HII 1.0           |
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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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=== RequireJS i18n 2.0.2 ===

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=== jsTree 1.0-rc3 ===

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

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

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/*! Hammer.JS - v2.0.4 - 2014-09-28
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=== Knockout.js 3.4.0 ===

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



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

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=== Normalize.css ===

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=== jsTree 1.0-rc3 ===

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

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

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/\*! Hammer.JS - v2.0.4 - 2014-09-28

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| js/libs/knockout/knockout-mapping-latest.js        | MIT 2.4.1         |
| js/libs/require/require.js                         | MIT 2.3.2         |
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| js/libs/history/history.iegte8.js                  | MIT 4.1.0         |
| js/libs/es6-promise/es6-promise.js                 | MIT 4.0.5         |
|                                                    |                   |



| <pre>js/libs/crossroads/crossroads.js</pre>            | MIT 0.12.0     |
|--------------------------------------------------------|----------------|
| 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/ojLl0n.js (requireJS il8n)           | MIT 2.0.2      |
| js/libs/hammer/hammer-2.0.8.js                         | MIT 2.0.8      |
| js/libs/require-css/css.js (require-css)               | MIT 0.1.8      |
| js/libs/proj4js/dist/proj4.js                          | Proj4js 2.3.14 |
| js/libs/proj4js/dist/proj4.js                          | Proj4js 2.3.14 |
| scss/oj/v3.1.0/3rdparty/normalize/normalize.scss       | MIT 1.0        |

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

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* http://jqueryui.com
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  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-api
  org.apache.tomcat:tomcat-util-scan
  org.apache.tomcat:tomcat-util
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in src/lib/gssapi, including the following files:

lib/gssapi/generic/gssapi err generic.et lib/gssapi/mechglue/g accept sec context.c lib/gssapi/mechglue/g\_acquire\_cred.c lib/gssapi/mechglue/g canon name.c lib/gssapi/mechglue/g compare name.c lib/gssapi/mechglue/g context time.c lib/gssapi/mechglue/g delete sec context.c lib/gssapi/mechglue/g dsp name.c lib/gssapi/mechglue/g dsp status.c lib/gssapi/mechglue/g dup name.c lib/gssapi/mechglue/g exp sec context.c lib/gssapi/mechglue/g export name.c lib/gssapi/mechglue/g glue.c lib/gssapi/mechglue/g imp name.c lib/gssapi/mechglue/g imp sec context.c lib/gssapi/mechglue/g init sec context.c lib/gssapi/mechglue/g initialize.c lib/gssapi/mechglue/g inquire context.c lib/gssapi/mechglue/g inquire cred.c lib/gssapi/mechglue/g inquire names.c lib/gssapi/mechglue/g process context.c



lib/gssapi/mechglue/g\_rel\_buffer.c lib/gssapi/mechglue/g rel cred.c lib/gssapi/mechglue/g\_rel\_name.c lib/gssapi/mechglue/g rel oid set.c lib/gssapi/mechglue/g seal.c lib/gssapi/mechglue/g sign.c lib/gssapi/mechglue/g store cred.c lib/gssapi/mechglue/g\_unseal.c lib/gssapi/mechglue/g userok.c lib/gssapi/mechglue/g\_utils.c lib/gssapi/mechglue/g verify.c lib/gssapi/mechglue/gssd\_pname\_to\_uid.c lib/gssapi/mechglue/mglueP.h lib/gssapi/mechglue/oid ops.c lib/gssapi/spnego/gssapiP spnego.h lib/gssapi/spnego/spnego mech.c

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

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

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log4j 2.11.1

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log4j-appserver
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log4j-core-java9
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log4j-mongodb3
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See http://members.unine.ch/jacques.savoy/clef/index.html.

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

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Written by: Philip Hazel Email local part: ph10 Email domain: cam.ac.uk

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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.

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

The optional caching functions require Storable.

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AUTHORS

Larry Wall <larry@wall.org> 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

- - -- - - - - - - - -

XML::SAX , copyright information is not listed in their homepage

AUTHOR

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Storable was written by Raphael Manfredi <Raphael\_Manfredi@pobox.com> Maintenance is now done by cperl http://perl11.org/cperl

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

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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)

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