# Oracle® Database Database Licensing Information User Manual



ORACLE

Oracle Database Database Licensing Information User Manual, 18c

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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 18c.

### **Documentation Accessibility**

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

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### **Related Documents**

For more information, see these Oracle resources:

- Oracle Database New Features Guide for information on the features new to this release of Oracle Database
- 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	License Deployment Options	Abbreviated Name Used in this Guide	Description
Oracle Database Standard Edition 2	On-Premises, OCI*, and ACEs**	SE2	Oracle Database Standard Edition 2 includes features necessary to develop workgroup, department-level, and Web applications.

#### Table 1-1 Oracle Database Offerings

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

#### Table 1-1 (Cont.) Oracle Database Offerings

Oracle Database Offering	License Deployment Options	Abbreviated Name Used in this Guide	Description
Oracle Database Exadata Cloud Service	OCI*	ExaCS/CC	This guide uses <b>ExaCS/CC</b> to describe the licensing policies for both Oracle Database 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

#### \* OCI: Oracle Cloud Infrastructure

\*\*ACEs: Authorized Cloud Environments

#### Note:

For the list of Authorized Cloud Environments, see <a href="https://www.oracle.com/assets/cloud-licensing-070579.pdf">https://www.oracle.com/assets/cloud-licensing-070579.pdf</a>. All other public clouds and environments that are in any way considered an extension of non-Authorized Cloud Environments, such as cloud management, cloud billing, cloud support, cloud automation, cloud images, or cloud monitoring software, are not Authorized Cloud Environments.

# 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 Y value in a column means that the feature, option, or pack is available for a particular offering; N means that it is unavailable; N/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 1-2 Consolidation

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

#### Table 1-3Development Platform

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS/ CC	Notes
SQLJ	Y	Y	Y	Y	Y	Y	Y	Y	Requires Oracle Programmer
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 1-4 High Availability

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS/ CC	Notes
Application Continuity	N	Y	Y	N	N	N	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Active Data Guard option, the Oracle RAC One Node option, or the Oracle Real Application Clusters option
Oracle Sharding	N	Y	Y	Ν	Y	Y	Y	Y	<b>EE</b> and <b>EE-ES</b> : 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.
									<b>BaseDB EE</b> , <b>BaseDB EE-HP</b> , and <b>Authorized Cloud Environments</b> : Use is limited to three primary shards; there is no limit on the number of standby shards.
									<b>BaseDB EE-EP</b> and <b>ExaCS/CC</b> : 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	Y	Y	Y	Ν	Ν	Ν	N	Ν	EE and EE-ES: Extra cost option
Oracle Data Guard— Redo Apply	N	Y	Y	Ν	Y	Y	Y	Y	
Oracle Data Guard—Far Sync Standby	Ν	Y	Y	Ν	Ν	Ν	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Active Data Guard option
Oracle Data Guard— SQL Apply	N	Y	Y	Ν	Y	Y	Y	Y	

Table 1-4	(Cont.)	High	Availability
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Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS/ CC	Notes
Oracle Data Guard— Snapshot Standby	Ν	Y	Y	Ν	Y	Y	Y	Y	
Oracle Data Guard— Real-Time Cascading Standbys	Ν	Y	Y	Ν	N	Ν	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Active Data Guard option
Oracle Data Guard— Automatic Correction of Non-logged Blocks at a Data Guard Standby Database	N	Ν	Y	N	N	N	Y	Y	<b>EE-ES</b> : Requires the Oracle Active Data Guard option
Oracle Active Data Guard	N	Y	Y	Ν	N	N	Y	Y	<b>EE</b> and <b>EE-ES</b> : Extra cost option; license included with Oracle GoldenGate
Rolling Upgrades— Patch Set, Database, and Operating System	N	Y	Y	Ν	Y	Y	Y	Y	
Rolling Upgrade Using Active Data Guard	Ν	Y	Y	Ν	Ν	Ν	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Active Data Guard option
Online index rebuild	Ν	Y	Y	N	Y	Y	Y	Y	
Online table organization	N	Y	Y	Ν	Y	Y	Y	Y	ALTER TABLE MOVE ONLINE operations
Online table redefinition	N	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	
Block-level media recovery	N	Y	Y	Ν	Y	Y	Y	Y	
Lost Write Protection	Ν	Y	Y	N	Y	Y	Y	Y	
Automatic Block Repair	Ν	Y	Y	Ν	Ν	Ν	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Active Data Guard option
Parallel backup and recovery	Ν	Y	Y	Ν	Y	Y	Y	Y	
Tablespace point-in-time recovery	N	Y	Y	Ν	Y	Y	Y	Y	
Trial recovery	Ν	Y	Y	Ν	Y	Y	Y	Y	
Fast-start fault recovery	Ν	Y	Y	Ν	Y	Y	Y	Y	
Flashback Table	Ν	Y	Y	N	Y	Y	Y	Y	
Flashback Database	Ν	Y	Y	Ν	Y	Y	Y	Y	
Flashback Transaction	Ν	Y	Y	Ν	Y	Y	Y	Y	

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS/ CC	Notes
Flashback Transaction Query	Ν	Y	Y	Ν	Y	Y	Y	Y	
Optimization for Flashback Data Archive	Ν	Y	Y	Ν	Ν	Y	Y	Y	Basic Flashback Data Archive is in all offerings
									<b>EE</b> and <b>EE-ES</b> : Optimization for Flashback Data Archive requires the Oracle Advanced Compression option
Online Datafile Move	Ν	Y	Y	Ν	Y	Y	Y	Y	
Transaction Guard	N	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	Ν	Ν	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Active Data Guard option
Recovering tables and table partitions from RMAN backups	N	Y	Y	Ν	Y	Y	Y	Y	

#### Table 1-4 (Cont.) High Availability

#### Table 1-5 Integration

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS/ CC	Notes
Oracle Streams	Y	Y	Y	Y	Y	Y	Y	Y	SE2 and BaseDB SE: No capture from redo
Database Gateways	Y	Y	Y	Y	Y	Y	Y	Y	Includes Database Gateway for ODBC
									All other Database Gateway products require a separate product license
Messaging Gateway	Ν	Y	Y	Ν	Y	Y	Y	Y	
AQ Sharded Queues	N	Y	Y	Ν	Ν	Y	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Partitioning option

#### Table 1-6 Manageability

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS/ CC	Notes
Oracle Cloud Management Pack for Oracle Database	Ν	Y	Y	Ν	N	Y	Y	Y	EE and EE-ES: Extra cost option
Oracle Data Masking and Subsetting Pack	Ν	Y	Y	Ν	Y	Y	Y	Y	<b>EE</b> and <b>EE-ES</b> : Extra cost option

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

#### Table 1-6 (Cont.) Manageability



Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS/ CC	Notes
SQL Plan Management	Y	Y	Y	Y	Y	Y	Y	Y	SQL Plan Management does not require a license for Oracle Diagnostics Pack or Oracle Tuning Pack SE2 and BaseDB SE Summary:
									Only one SQL plan baseline per SQL statement is allowed and SQL plan evolution is disabled.
									SE2 and BaseDB SE Details:
									1. SQL plan baselines can be created or captured using the following methods:
									<ul> <li>Auto capture <ul> <li>(OPTIMIZER_CAPTURE_S</li> <li>QL_PLAN_BASELINE=TRU</li> <li>E)</li> </ul> </li> <li>Manual loading from the cursor cache <ul> <li>(DBMS_SPM.LOAD_PLANS</li> <li>FROM CURSOR_CACHE)</li> </ul> </li> <li>Migration from stored <ul> <li>outlines</li> <li>(DBMS_SPM.MIGRATE_ST</li> <li>ORED_OUTLINE)</li> </ul> </li> <li>Import using <ul> <li>DBMS_SPM.UNPACK_STGT</li> <li>AB_BASELINE</li> </ul></li></ul>
									2. All capture and creation methods store only one SQL plan baseline per SQL statement.
									3. SQL plan baselines can be exported and imported using DBMS_SPM.CREATE_STGTAB_ BASELINE, DBMS_SPM.PACK_STGTAB_BA SELINE, and DBMS_SPM.UNPACK_STGTAB_ BASELINE.
									4. Unused SQL plan baselines are not auto-purged.
									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_PLA

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS/ CC	Notes
									N_BASELINE <b>and</b> DBMS_SPM.DROP_SQL_PLAN_ BASELINE).
									7. The following DBMS_SPM functions and procedures are not allowed: CONFIGURE, LOAD_PLANS_FROM_AWR, LOAD_PLANS_FROM_SQLSET, and all functions and procedures associated with SQL plan evolution.
SQL Tuning Sets	N	Y	Y	Ν	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_SQLSET , CREATE_SQLSET, REFERENCE, CREATE_SQLSET, DROP_SQLSET, LOAD_SQLSET, PACK_STGTAB_SQLSET, SELECT_CURSOR_CACHE, SELECT_SQLSET, SELECT_SQLSET, SELECT_WORKLOAD_REPOSITORY, UNPACK_STGTAB_SQLSET, UPDATE_SQLSET.
Oracle Fleet Patching and Provisioning (formerly Rapid Home Provisioning)	N	Y	Y	N/A	N/A	N/A	N/A	N/A	EE and EE-ES: When deployed across multiple clusters, each FPP-managed target must be licensed for one of the following: Oracle Database Lifecycle Management Pack, Oracle RAC, or Oracle RAC One Node

#### Table 1-6 (Cont.) Manageability

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS/ CC	Notes
LogMiner	Y	Y	Y	Y	Y	Y	Y	Y	LogMiner is available for use with all Oracle Database offerings. However, when LogMiner is used with GoldenGate Supplemental Logging turned on, a license for Oracle GoldenGate is required. Refer to GoldenGate Supplemental Logging in "Special License Rights" for more information.

#### Table 1-6 (Cont.) Manageability

#### Table 1-7 Networking

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

#### Table 1-8 Performance

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

#### Table 1-8 (Cont.) Performance

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

#### Table 1-9 Scalability

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

#### Table 1-10 Security

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS/ CC	Notes
Transparent Data Encryption (TDE) for Columns	N	Y	Y	N	N	Y	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Advanced Security option
Transparent Data Encryption (TDE) for Tablespaces	Ν	Y	Y	Y	Y	Y	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Advanced Security option
Oracle Advanced Security	Ν	Y	Y	Ν	Ν	Y	Y	Y	<b>EE</b> and <b>EE-ES</b> : Extra cost option
Oracle Database Vault	Ν	Y	Y	N	Ν	Y	Y	Y	EE and EE-ES: Extra cost option
Oracle Label Security	N	Y	Y	N	N	Y	Y	Y	EE and EE-ES: Extra cost option
Enterprise User Security	N	Y	Y	N	Y	Y	Y	Y	EE, EE-ES, BaseDB EE, BaseDB EE-HP, BaseDB EE-EP, and ExaCS/CC: Enterprise User Security is a feature for directory- based management of database users. It requires a corresponding Oracle Identity Management Directory Services Plus to be licensed.
Centrally Managed Users	Ν	Y	Y	Ν	Y	Y	Y	Y	EE, EE-ES, BaseDB EE, BaseDB EE-HP, BaseDB EE-EP, and ExaCS/CC: Centrally Managed Users is a feature for centrally authenticating and authorizing database users with Microsoft Active Directory.
Fine-grained Auditing	Ν	Y	Y	N	Y	Y	Y	Y	
Privilege Analysis	Ν	Y	Y	Ν	Y	Y	Y	Y	

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS/ CC	Notes
Real Application Security	N	Y	Y	Ν	Y	Y	Y	Y	
Redaction	Ν	Y	Y	Ν	Ν	Y	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Advanced Security option
Transparent Sensitive Data Protection	Ν	Y	Y	Ν	Y	Y	Y	Y	
Virtual Private Database	Ν	Y	Y	Ν	Y	Y	Y	Y	
Keystore for Each Pluggable Database	N	Ν	Y	N	Y	Y	Y	Y	<b>EE-ES</b> : Requires the Oracle Advanced Security option <b>CLOUD</b> : Only available in OCI

#### Table 1-10(Cont.) Security

#### Table 1-11Snapshots and Cloning

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

#### Table 1-12Spatial and Graph Data

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS/ CC	Notes
Oracle Spatial and Graph	Y	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.
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	
Partitioned spatial indexes	N	Y	Y	Ν	Ν	Y	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Partitioning option

Feature / Option / Pack	SE2	EE		Base	Base	Base	Base	ExaCS/	Notes
			ES	DB SE	DB EE	DB EE-HP	DB EE-EP	CC	
Oracle Partitioning	Ν	Y	Y	Ν	Ν	Y	Y	Y	EE and EE-ES: Extra cost option
Oracle On-Line Analytical Processing (OLAP)	N	Y	Y	N	N	Y	Y	Y	<b>EE</b> and <b>EE-ES</b> : 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	<b>EE</b> and <b>EE-ES</b> : Extra cost option
Advanced Index Compression	Ν	Y	Y	Ν	N	Y	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Advanced Compression option
Prefix Compression (also called Key Compression)	N	Y	Y	Ν	Y	Y	Y	Y	
Hybrid Columnar Compression	N	Y	Y	Ν	Y	Y	Y	Y	<b>EE</b> : Requires ZFS, Axiom, or FS1 storage
Row-Level Locking for Hybrid Columnar Compression	N	Y	Y	N	N	N	N	Y	<b>EE</b> : Requires ZFS or FS1 storage, and the Oracle Advanced Compression option
									<b>EE-ES</b> : Requires the Oracle Advanced Compression option
Exadata Flash Cache Compression	Ν	N	Y	Ν	N	Ν	Ν	Y	<b>EE-ES</b> : Available on Exadata and requires the Oracle Advanced Compression option. Not available on Oracle Database Appliance.
Heat Map	N	Y	Y	N	N	Y	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Advanced Compression option or the Oracle Database In- Memory option
Automatic Data Optimization	N	Y	Y	N	N	Y	Y	Y	<b>EE</b> and <b>EE-ES</b> : Requires the Oracle Advanced Compression option or the Oracle Database In- Memory option
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	N	Y	Y	N	Y	Y	Y	Y	
Parallel query/DML	Ν	Y	Y	Ν	Y	Y	Y	Y	

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

Feature / Option / Pack	SE2	EE	EE- ES	Base DB SE	Base DB EE	Base DB EE-HP	Base DB EE-EP	ExaCS/ CC	Notes
Parallel statistics gathering	Ν	Y	Y	Ν	Y	Y	Y	Y	
Parallel index build/ scans	N	Y	Y	Ν	Y	Y	Y	Y	
Parallel Data Pump Export/Import	N	Y	Y	Ν	Y	Y	Y	Y	
In-Memory Parallel Execution	N	Y	Y	Ν	Y	Y	Y	Y	
Parallel Statement Queuing	N	Y	Y	Ν	Y	Y	Y	Y	
Parallel capture and apply via XStream	N	Y	Y	Ν	Y	Y	Y	Y	
Transportable tablespaces, including cross-platform and full transportable export and import	N	Y	Y	N	Y	Y	Y	Y	Import of transportable tablespaces is supported from all offerings that include Enterprise Edition software into <b>SE2</b> ; this does not include the use of cross- platform capabilities.
Summary management —Materialized View Query Rewrite	Ν	Y	Y	Ν	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	Availability	Included Features
Oracle Active Data Guard	Extra cost option: EE, EE-ES Included option: PE, BaseDB EE-EP, ExaCS/CC	<ul> <li>Oracle Active Data Guard includes the following features:</li> <li>Physical Standby with Real-time Query</li> <li>Fast Incremental Backup on Physical Standby</li> <li>Automatic Block Repair</li> <li>Active Data Guard Far Sync</li> <li>Global Data Services</li> <li>Real-Time Cascade</li> <li>Application Continuity</li> <li>Rolling Upgrade using Active Data Guard</li> <li>In an Oracle Data Guard configuration:</li> <li>Oracle Active Data Guard must be licensed on any standby databases with any of the above features in use, as well as the primary database. If there are additional standby databases do not require an Oracle Active Data Guard license.</li> </ul>
		<b>Note:</b> For customers who back up standby databases to Zero Data Loss Recovery Appliance (ZDLRA) and wish to use the Fast Incremental Backup on Physical Standby or Real-Time Cascade feature, an Oracle Active Data Guard license is not required. Oracle Active Data Guard must still be licensed on standby databases, if any other of the above features are in use.
		<ul> <li>The container root (CDB\$Root) of the standby database may be opened read-only without requiring an Oracle Active Data Guard license. An Oracle Active Data Guard license is only required if any of the pluggable databases in the standby is opened for read.</li> </ul>

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

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

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

Table 1-14	(Cont.	) Oracle Database Options and Their Permitted Features
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Option	Availability	Included Features
Oracle Partitioning	Extra cost option: EE, EE-ES Included option: PE, BaseDB EE-HP, BaseDB EE-EP, ExaCS/CC	<ul> <li>Oracle Partitioning includes the following features:</li> <li>Table Partitions and Subpartitions</li> <li>Global and Local Index Partitions and Subpartitions</li> <li>AQ Sharded Queues</li> <li>Zone Maps (Available only on EE-ES and ExaCS/CC; requires Exadata or Supercluster)</li> </ul>
Oracle RAC One Node	Extra cost option: <b>EE</b> , <b>EE-ES</b> Included option: <b>SE2</b>	<ul> <li>Oracle RAC One Node includes the following features:</li> <li>Database Cold Failover to another node in the cluster in case of server or instance failure</li> <li>Online migration of the database instance to another server</li> <li>Support for online rolling upgrades of the database, grid infrastructure, and OS homes</li> <li>Online upgrade to Oracle Real Application Clusters</li> <li>Policy-managed Server Pools</li> <li>Quality of Service Management</li> <li>Application Continuity</li> <li>Zero-Downtime Oracle Grid Infrastructure Patching</li> </ul>
Oracle Real Application Clusters (Oracle RAC)	Extra cost option: EE, EE-ES Included option: SE2, BaseDB EE-EP, ExaCS/CC	<ul> <li>Oracle Real Application Clusters (Oracle RAC) includes the following features:</li> <li>All of the features included with Oracle RAC One Node</li> <li>Real Application Clusters scaling to multiple servers</li> <li>Connection Load Balancing</li> <li>Fast Connection Failover</li> <li>Hot Cluster Failover</li> </ul>

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

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

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

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

Management Pack	Availability	Included Features
		<b>Database</b> . Next, from the PDB Operations section, select <b>Create New</b> <b>Pluggable Databases</b> . Click <b>Launch</b> , and from Pluggable Database Creation Options, select <b>Clone an Existing PDB -&gt; Snap Clone</b> .
		Licensed APIs:
		Use of the following APIs requires a license for Oracle Cloud Management Pack for Oracle Database:
		<ul> <li>Assembly Operations — Any POST/GET/PUT/DELETE on /em/cloud iaas URI space for Resources Assembly Template and Assembly Instance</li> </ul>
		DBaaS Operations — Any POST/GET/PUT/DELETE on /em/cloud/ dbaas URI space
		DBaaS Setup Operations — Any POST/GET/PUT/DELETE on /em/
		<pre>websvcs/restful/extws/cloudservices/admin/cfw/v1 URI space.</pre>
		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
		<ul> <li>get_dbaas_request_settings</li> </ul>
		• get_metering_data
		<ul> <li>get_pool_capacity_data</li> </ul>
		<ul> <li>get_pool_capacity_summary_data</li> </ul>
		• get_pool_constraints
		• get_pool_criteria
		• get_pool_detail
		• get_pool_instance_data
		<ul> <li>get_pool_target_type</li> </ul>
		• get_pools
		• get_service_template
		<ul> <li>list_charge_item_candidates</li> </ul>
		<ul> <li>remove_pool_members</li> </ul>
		• update_dbaas_quota
		<ul> <li>update_dbaas_request_settings</li> </ul>
		• update_pool
		Licensed Views and Tables:
		The following objects within the repository schema are licensed under Oracle Cloud Management Pack for Oracle Database:

Management Pack	Availability	Included Features
		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.

Management Pack	Availability	Included Features
Oracle Data Masking and Subsetting Pack	Extra cost pack: EE, EE-ES Included pack: BaseDB EE, BaseDB EE-HP, BaseDB EE- EP, ExaCS/CC	<ul> <li>Features:</li> <li>Oracle Data Masking and Subsetting Pack includes the following features:</li> <li>Application Data Modeling</li> <li>Data Masking Formats Library</li> <li>Data Masking Definitions</li> <li>Data Subsetting Definitions</li> <li>Application Data Modeling, Data Masking and Subsetting Enterprise Manager Command Line Interface (CLI) verbs</li> <li>Application Data Modeling accelerator for select versions of Oracle E-Business Suite</li> <li>Application Data Modeling accelerator for select versions of Oracle Fusion Applications</li> <li>Data Masking templates for select versions of Oracle Fusion Applications</li> <li>Data Masking templates for select versions of Oracle Fusion Applications</li> <li>Data Masking templates for select versions of Oracle E-Business Suite</li> <li>Oracle Data Masking and Subsetting Pack includes the following restricted use licenses:</li> <li>Database Gateway for APPC</li> <li>Database Gateway for APPC</li> <li>Database Gateway for SQLServer</li> <li>Database Gateway for Sybase</li> <li>Database Gateway for Teradata</li> <li>If you want to use the Oracle Database Gateways listed above not solely for the purposes of Oracle Data Masking and Subsetting Pack for non-Oracle databases, the Oracle Database Gateway stage the data in a separately licensed Oracle Database. Oracle Data Masking and Subsetting Pack for non-Oracle databases.</li> <li>Oracle Data Masking and Subsetting Pack must be licensed only for the source database server, i.e., the databases from which the data originates.</li> </ul>
		<ol> <li>Notes:</li> <li>Oracle Data Masking and Subsetting Pack incorporates the previous Oracle Data Masking Pack, Oracle Test Data Management Pack, and Oracle Data Masking and Subsetting Pack for non-Oracle Databases.</li> <li>Application Data Modeling was previously called Data Discovery and Modeling.</li> <li>Licensed Links:</li> <li>All features, functions, links, buttons, and drill-downs on these Oracle Enterprise Manager menus are licensed as part of the Oracle Data Masking and Subsetting Pack.</li> <li>Starting on the Enterprise Summary home page, click the Enterprise</li> </ol>

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

Management Pack	Availability	Included Features
		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

Management Pack	Availability	Included Features
Oracle Database Lifecycle Management Pack for Oracle Database	Extra cost pack: EE, EE-ES Included pack: BaseDB EE-HP, BaseDB EE-EP, ExaCS/CC	Features:         Oracle Database Lifecycle Management Pack for Oracle Database includes the following features:         Change Activity Plans         Client system analyzer         Configuration Collection Extensibility         Configuration Compare         Configuration Stance Browser         Configuration Topology         Copy Objects         Database Patching         Database Provisioning         Database Provisioning         Database Provisioning         Database Provisioning         Database Provisioning         Database Provisioning         Database Upgrade         Notifications         PIB Synchronization         Notifications         PDB Migrate         RAC Scale Back         Real-time configuration change detection         Schema and Data Comparisons         Schema Change Plans         Schema and Data Conder Labase Lifecycle Management Pack for Oracle Database (JDDP)         With the purchase of Oracle Database Lifecycle Management Pack for Oracle Database, you also are entitled to the features described in the following sections. These features are restricted to the Oracle Database targets in the Oracle Database Li

Management Pack	Availability	Included Features
		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:
		<ul> <li>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.</li> </ul>
		<ul> <li>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.</li> </ul>
		<ul> <li>From the Oracle database or cluster database target home page, click the Oracle Database menu, then <b>Provisioning</b>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</li> </ul>
		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:
		<ul> <li>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.</li> </ul>
		<ul> <li>From the Oracle database or cluster database target home page, click the Oracle Database menu, then <b>Provisioning</b>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</li> </ul>
		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:
		<ul> <li>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.</li> </ul>
		Licensed Links – RAC Scale Out and Scale Back
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle
		<ul> <li>Database:</li> <li>From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. All</li> </ul>

Management Pack	Availability	Included Features
		Procedures that Extend or Scale a database or RAC are licensed with Oracle Database Lifecycle Management Pack for Oracle Database.
		<ul> <li>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 Pac for Oracle Database.</li> </ul>
		<ul> <li>From the Oracle cluster database target home page, click the Oracle Database menu, then <b>Provisioning</b>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</li> </ul>
		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 <b>Enterprise</b> menu, <b>Provisioning and Patching</b> , then <b>Procedure Library</b> . 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:
		<ul> <li>From the Enterprise Manager home page, click the Setup menu, Provisioning and Patching, then Offline Patching. From the Onlin and Offline Setting tab, the Connection, Offline setting is licensed with Oracle Database Lifecycle Management Pack for Oracle Database.</li> </ul>
		Licensed Links – Configuration Instance Browser
		Use of the following Oracle Enterprise Manager pages and links require a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		<ul> <li>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 fo Oracle Database.</li> </ul>
		If the Target Home Page is accessed directly or by other paths:
		<ul> <li>From the database home page, click on Oracle Database,</li> <li>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.</li> </ul>
		Licensed Links – Configuration Search
		Use of the following Oracle Enterprise Manager pages and links require a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		<ul> <li>From the Enterprise Manager home page, click the Enterprise menu, then Configuration and Search. All features, functions, link</li> </ul>

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

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

From the Enterprise Manager home page, click the Enterprise menu, then Configuration and Custom. All features, functions,

Management Pack	Availability	Included Features
		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:
		<ul> <li>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.</li> </ul>
		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:
		<ul> <li>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 a part of Oracle Database Lifecycle Management Pack for Oracle Database.</li> </ul>
		• If the Target Home Page is accessed directly or by other paths:
		<ul> <li>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.</li> </ul>
		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:
		<ul> <li>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 a part of Oracle Database Lifecycle Management Pack for Oracle Database.</li> </ul>
		<ul> <li>If the Target Home Page is accessed directly or by other paths:</li> </ul>
		<ul> <li>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.</li> </ul>
		Licensed Links – Schema and Data Synchronization:
		Use of the following Oracle Enterprise Manager pages and links require a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		<ul> <li>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 a part of Oracle Database Lifecycle Management Pack for Oracle Database.</li> </ul>
		<ul> <li>If the Target Home Page is accessed directly or by other paths:</li> </ul>

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

Management Pack	Availability	Included Features
		<ul> <li>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.</li> </ul>
		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:
		<ul> <li>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 a part of Oracle Database Lifecycle Management Pack for Oracle Database.</li> </ul>
		<ul> <li>If the Target Home Page is accessed directly or by other paths:</li> </ul>
		<ul> <li>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.</li> </ul>
		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:
		<ul> <li>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 a part of Oracle Database Lifecycle Management Pack for Oracle Database.</li> </ul>
		<ul> <li>If the Target Home Page is accessed directly or by other paths:</li> </ul>
		<ul> <li>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.</li> </ul>
		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:
		<ul> <li>From the Enterprise Manager home page, click the Enterprise men 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.</li> </ul>
		Licensed Reports:
		The following reports are part of Oracle Database Lifecycle Managemen Pack for Oracle Database. All reports in each of these sections are licensed as part of this pack. To access the reports go to the Enterprise Manager home page, click the Reports, Information Publisher Reports o BI Publisher Enterprise Reports.
		The following reporting areas, reports, and sub-reports under Informatio Publisher Reports are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database:

Management Pack for Oracle Database:

Management Pack Ava	y Included Features	
	Compliance	
	Deployment and Configuration	
	<ul> <li>Sample Host reports, Configuration Reports</li> </ul>	
	Security	
	The following reporting areas, reports and sub-reports under BI Publ 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) ver are licensed as part of Oracle Database Lifecycle Management Pack Oracle Database.	
	associate cs targets	
	<ul> <li>clone database</li> </ul>	
	<ul> <li>config compare</li> </ul>	
	<ul> <li>config db service target</li> </ul>	
	<ul> <li>configure log archive locations</li> </ul>	
	<ul> <li>confirm instance</li> </ul>	
	create database	
	• describe instance	
	<ul> <li>describe procedure input</li> </ul>	
	<ul> <li>disable config history</li> </ul>	
	• enable config history	
	• export compliance group	
	• export compliance standard rule	
	• export facet	
	• export standard	
	<ul> <li>fix compliance state</li> </ul>	
	• get config searches	
	• get_config_templates	
	• get_executions	
	• get_instance_data	
	<ul> <li>get_instance_status</li> </ul>	
	• get_instances	
	<ul> <li>get_oms_config_property</li> </ul>	
	<ul> <li>get_procedure_types</li> </ul>	
	• get_procedure_xml	
	• get_procedures	
	<ul> <li>get_retry_argument</li> </ul>	
	<ul> <li>get_saved_configs</li> </ul>	
	• ignore_instance	
	<ul> <li>import_compliance_object</li> </ul>	
	<ul> <li>list_oms_config_properties</li> </ul>	
	<ul> <li>remove_cs_target_association</li> </ul>	
	• reschedule instance	

Management Pack	Availability	Included Features
		• resume_instance
		<ul> <li>run_config_search</li> </ul>
		• save_procedure
		<ul> <li>set_config_history_retention_period</li> </ul>
		<ul> <li>stop_instance</li> </ul>
		<ul> <li>submit_procedure</li> </ul>
		<ul> <li>suspend_instance</li> </ul>
		<ul> <li>update_and_retry_step</li> </ul>
		<ul> <li>update_procedure_input</li> </ul>
		• upgrade_database
		Licensed Repository Views – Compliance Views:
		The following compliance views within the repository schema are license under Oracle Database Lifecycle Management Pack for Oracle Database
		• MGMT\$CCC_ALL_OBS_BUNDLES
		<ul> <li>MGMT\$CCC_ALL_OBSERVATIONS</li> </ul>
		<ul> <li>MGMT\$CCC_DIAG_ANALYTICS</li> </ul>
		• MGMT\$CCC_DIAG_QUEUEBACKLOG
		• MGMT\$COMPLIANCE_STANDARD
		• MGMT\$COMPLIANCE_STANDARD_GROUP
		• MGMT\$COMPLIANCE_STANDARD_RULE
		<ul> <li>MGMT\$COMPOSITE_CS_EVAL_SUMMARY</li> </ul>
		<ul> <li>MGMT\$CS_ASM_DISKGRP_SETTINGS</li> </ul>
		• MGMT\$CS_DB_CONTROL_FILE_COUNT
		<ul> <li>MGMT\$CS_DB_INIT_PARAMS</li> </ul>
		• MGMT\$CS_DB_RBS_IN_SYSTEM
		• MGMT\$CS_DB_REC_SEG_SETTINGS
		• MGMT\$CS_DB_REC_TS_SETTINGS
		<ul> <li>MGMT\$CS_DB_REC_USER_SETTINGS</li> </ul>
		<ul> <li>MGMT\$CS_DB_REDO_LOG_COUNT</li> </ul>
		<ul> <li>MGMT\$CS_DB_REDO_LOGS</li> </ul>
		• MGMT\$CS_DB_TABLESPACES
		<ul> <li>MGMT\$CS_DB_TBSP_SEGSPACE_MGMT</li> </ul>
		<ul> <li>MGMT\$CS_EVAL_SUMMARY</li> </ul>
		<ul> <li>MGMT\$CS_FEATURE_USAGE</li> </ul>
		<ul> <li>MGMT\$CS_GROUP_EVAL_SUMMARY</li> </ul>
		MGMT\$CS_GROUP_KEYWORD
		• MGMT\$CS_HA_INFO
		• MGMT\$CS_HIERARCHY
		<ul> <li>MGMT\$CS_KEYWORD</li> </ul>
		<ul> <li>MGMT\$CS_RQS_HIERARCHY</li> </ul>
		<ul> <li>MGMT\$CS_RULE_ATTRS</li> </ul>
		<ul> <li>MGMT\$CS_RULE_EVAL_SUMMARY</li> </ul>
		• MGMT\$CS_RULEFOLDER
		<ul> <li>MGMT\$CS_TARGET_ASSOC</li> </ul>
		<ul> <li>MGMT\$CS_TGT_ASSOC_TXF_REQ</li> </ul>
		<ul> <li>MGMT\$CSG_HIERARCHY</li> </ul>
		<ul> <li>MGMT\$CSG SUBGROUP</li> </ul>

Management Pack	Availability	Included Features
		• MGMT\$CSR_CURRENT_VIOLATION
		• MGMT\$CSR_TARGET_ASSOC
		<ul> <li>MGMT\$CSR_VIOLATION_CONTEXT</li> </ul>
		<ul> <li>MGMT\$CSRF_TARGET_ASSOC</li> </ul>
		<ul> <li>MGMT\$EM_CS_RULE_EVENT_ERROR</li> </ul>
		• MGMT\$EM_RULE_VIOL_CTXT_DEF
		• MGMT\$ICS_TARGET_ASSOC
		• MGMT\$REPO_RULE_CHK_DETAILS
		<ul> <li>MGMT\$REPOSITORY_RULE_BIND_VARS</li> </ul>
		<ul> <li>MGMT\$REPOSITORY_RULE_PARAMS</li> </ul>
		• 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 Par for Oracle Database:
		• EM\$PROV APPTYPES
		• EM\$PROVAPP METADATA
		• EM\$PROVAPP METADATA VERSION
		• EM\$PROVAPP TAG PROPERTIES
		• EM\$PROVAPP TAGS
		<ul> <li>MGMT\$PA_RECOM_METRIC_SOURCE</li> </ul>
		Licensed Repository Views – Patching Views:
		The following patching views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database
		• GC\$EM_PC_PLAN_PATCHES
		• GC\$EM PC PLANS
		• GC\$EM PC PLAN TARGETS
		• GC_PC_EXECUTION_INSTANCES
		• GC_PC_PLAN_ANALYSIS_RS
		• GC_PC_PLAN_REMEDY
		• GC_PC_PLAN_REMEDY_DETAILS
		• GC_PC_PLAN_USERS
		• GC_PC_TARGETS
		• MGMT\$APPLIED_PATCHES
		<ul> <li>MGMT\$APPLIED_PATCHSETS</li> </ul>
		<ul> <li>MGMT\$ARU_FAMILY_PRODUCT_MAP</li> </ul>
		<ul> <li>MGMT\$ARU_LANGUAGES</li> </ul>
		<ul> <li>MGMT\$ARU_PATCH_RECOMMENDATIONS</li> </ul>
		• MGMT\$ARU_PLATFORMS
		<ul> <li>MGMT\$ARU_PRODUCT_RELEASE_MAP</li> </ul>
		• MGMT\$ARU_PRODUCTS
		• MGMT\$ARU_RELEASES
		• MGMT\$ARU_TARGETS
		• MGMT\$PA_AFFTED_HOST_GUID_OH
		• MGMT\$PA_AFFTED_HOST_OH
		• MGMT\$PA_AFFTED_TARGETS
		<ul> <li>MGMT\$PA FINAL PATCH LIST</li> </ul>

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

Management Pack Availab	lity Included Features
	• MGMT\$PA_TARGET_MAPPING
	• MGMT\$PR_APPL_PATCHES_TO_OH
	<ul> <li>MGMT\$PR_APPL_PATCHES_TO_OH_TGT</li> </ul>
	• MGMT\$PR_HOME_INFO
	• MGMT\$PR_HOMES_AFFECTED_COUNT
	<ul> <li>MGMT\$RECOM_METRIC_SOURCE</li> </ul>
	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_CORR_CONFIG     GC\$ECM_CURR_CONFIG FLAT_MEMS
	GC\$ECM_CONTIG_FIRAT_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
	• 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
	<ul> <li>MGMT\$ECM_CMP_RPT_CCS_PD_DIFFS</li> </ul>
	• MGMT\$ECM CMP RPT CI DIFFS
	<ul> <li>MGMT\$ECM_CMP_VISIBLE_CONFIGS</li> </ul>

Management Pack	Availability	Included Features
		• 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
		• 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 Databas
		• MGMT\$ESA_ALL_PRIVS_REPORT
		• MGMT\$ESA_ANY_DICT_REPORT
		• MGMT\$ESA_ANY_PRIV_REPORT
		<ul> <li>MGMT\$ESA_AUDIT_SYSTEM_REPORT</li> </ul>
		<ul> <li>MGMT\$ESA_BECOME_USER_REPORT</li> </ul>
		<ul> <li>MGMT\$ESA_CATALOG_REPORT</li> </ul>
		• MGMT\$ESA_CONN_PRIV_REPORT
		<ul> <li>MGMT\$ESA_CREATE_PRIV_REPORT</li> </ul>
		• MGMT\$ESA_DBA_GROUP_REPORT
		<ul> <li>MGMT\$ESA_DBA_ROLE_REPORT</li> </ul>

Management Pack	Availability	Included Features
		• MGMT\$ESA_DIRECT_PRIV_REPORT
		• MGMT\$ESA_EXMPT_ACCESS_REPORT
		• MGMT\$ESA_KEY_OBJECTS_REPORT
		• MGMT\$ESA_OH_OWNERSHIP_REPORT
		<ul> <li>MGMT\$ESA_OH_PERMISSION_REPORT</li> </ul>
		• MGMT\$ESA_POWER_PRIV_REPORT
		• MGMT\$ESA_PUB_PRIV_REPORT
		<ul> <li>MGMT\$ESA_SYS_PUB_PKG_REPORT</li> </ul>
		<ul> <li>MGMT\$ESA_TABSP_OWNERS_REPORT</li> </ul>
		<ul> <li>MGMT\$ESA_TRC_AUD_PERM_REPORT</li> </ul>
		<ul> <li>MGMT\$ESA_WITH_ADMIN_REPORT</li> </ul>
		<ul> <li>MGMT\$ESA_WITH_GRANT_REPORT</li> </ul>
		Licensed Repository Views – Client Configuration Views:
		The following client configuration views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:
		• MGMT\$CSA_COLLECTIONS
		• MGMT\$CSA_FAILED
		• MGMT\$CSA_HOST_COOKIES
		• MGMT\$CSA_HOST_CPUS
		• MGMT\$CSA_HOST_CUSTOM
		• MGMT\$CSA_HOST_IOCARDS
		• MGMT\$CSA_HOST_NICS
		• MGMT\$CSA_HOST_OS_COMPONENTS
		• MGMT\$CSA_HOST_OS_FILESYSEMS
		<ul> <li>MGMT\$CSA_HOST_OS_PROPERTIES</li> </ul>
		• MGMT\$CSA_HOST_RULES
		• MGMT\$CSA_HOST_SW
		<ul> <li>MGMT\$ECM_CONFIG_HISTORY</li> </ul>

Management Pack	Availability	Included Features
Oracle Diagnostics Pack	Extra cost pack: EE, EE-ES Included pack: BaseDB EE, BaseDB EE-HP, BaseDB EE- EP, ExaCS/CC	<ul> <li>Features:</li> <li>Features:</li> <li>Performance monitoring and diagnostics (database and host)</li> <li>Automatic Workload Repository (AWR)</li> <li>AWR Warehouse</li> <li>Automatic Database Diagnostic Monitor (ADDM)</li> <li>Compare Period ADDM</li> <li>Real Time ADDM</li> <li>Active Session History (ASH)</li> <li>ASH analytics</li> <li>Performance Hub</li> <li>Top Activity Lite</li> <li>Exadata Cell Grid Administration</li> <li>Exadata Cell Grid Performance</li> <li>Blackouts</li> <li>Notifications</li> <li>Metric and Alert/Event history</li> <li>User-Defined Metrics and Metric Extensions</li> <li>Management Connectors</li> <li>Dynamic metric baselines and Adaptive metric thresholds</li> <li>Monitoring templates and Template Collections</li> <li>Replay Compare Period Report</li> <li>Supporting functionality to perform per stream bottleneck detection and per component top wait event analysis</li> <li>In order to use the features listed above, you must purchase licenses for Oracle Diagnostics Pack. An ew initialization parameter, CONTROL MANAGEMENT_PACK_ACCESS, controls access to Oracle Diagnostics Pack and Oracle Tuning Pack functionality is enabled in the database server.</li> <li>DIAGNOSTIC+TUNING: Oracle Diagnostics Pack and Oracle Tuning Pack functionality is enabled in the server.</li> <li>MONE: Oracle Diagnostics Pack and Oracle Diagnostics Pack functionality, whether through Enterprise Manager Console, Desktop Widgets, command-line APIs, or direct access to the underlying data, requires an Oracle Diagnostics Pack functionality, whether through Enterprise Manager Console, Desktop Widgets, command-line APIs, or direct access to the underlying data, r</li></ul>

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

Management Pack	Availability	Included Features
		<ul> <li>For Enterprise Manager Database Control, click the Remove Access radio button for the Diagnostics Pack and click Apply.</li> <li>For Enterprise Manager Cloud Control, click the appropriate check box for the Diagnostics Pack and click Apply.</li> <li>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.</li> </ul>
		Licensed Command-Line APIs:
		Oracle Diagnostics Pack features can also be accessed by way of database server APIs and command-line interfaces:
		<ul> <li>The DBMS_ADDM, DBMS_PERF, DBMS_UMF, and DBMS_WORKLOAD_REPOSITORY packages are part of this pack.</li> <li>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 profix</li> </ul>
		<ul> <li>prefix.</li> <li>The DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT function is part of this pack.</li> <li>The V\$ACTIVE SESSION HISTORY dynamic performance view and</li> </ul>
		its underlying table, X\$ASH, are part of this pack.
		• The DBA_STREAMS_TP_PATH_BOTTLENECK view is part of this pack.
		<ul> <li>All views beginning with DBA_ADDM_ are part of this pack.</li> </ul>
		• 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:
		<pre>SELECT * FROM DBA_STREAMS_TP_COMPONENT_STAT where STATISTIC UNIT = 'PERCENT';</pre>
		<ul> <li>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.</li> <li>All data dictionary views with the prefix DBA_ADVISOR_ are part of this pack if queries to these views return rows with the value ADDM in the ADVISOR_NAME column or a value of ADDM* in the TASK_NAME column or the corresponding TASK_ID.</li> <li>The following reports found in the /rdbms/admin/directory of the Oracle home directory are part of this pack: awrrpt.sql, awrrpti.sql, awrgtpt.sql, awrgtpt.sql</li></ul>
		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, <b>and</b> spawrrac.sql.

Management Pack	Availability	Included Features
		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
		<ul> <li>MGMT\$BLACKOUT_HISTORY</li> </ul>
		• MGMT\$BLACKOUTS
		• MGMT\$METRIC_COLLECTIONS
		• MGMT\$ALERT_CURRENT
		• MGMT\$METRIC_DAILY
		• MGMT\$METRIC_DETAILS
		• MGMT\$METRIC_HOURLY
		<ul> <li>MGMT\$TARGET_METRIC_COLLECTIONS</li> </ul>
		<ul> <li>MGMT\$TARGET_METRIC_SETTINGS</li> </ul>
		Licensed Repository Views – Template Views:
		The following template views are licensed under Oracle Diagnostics Pack
		• MGMT\$TEMPLATES
		<ul> <li>MGMT\$TEMPLATE_METRIC_COLLECTION</li> </ul>
		<ul> <li>MGMT\$TEMPLATE_METRIC_SETTINGS</li> </ul>
		<ul> <li>MGMT\$TEMPLATE_POLICY_SETTINGS</li> </ul>
		Additional Licensing Information:
		<ul> <li>The use of Top Activity Lite in Enterprise Manager requires an Oracl Diagnostics Pack license.</li> </ul>
		<ul> <li>The use of Top Activity Lite in OCI Database Management Service requires both an Oracle Diagnostics Pack license and an OCI Database Management Service subscription – Full Management.</li> </ul>

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

Management Pack	Availability	Included Features
Management Pack Dracle Tuning Pack	Availability Extra cost pack: EE, EE-ES Included pack: BaseDB EE, BaseDB EE-HP, BaseDB EE- EP, ExaCS/CC	Included Features         Gracle Tuning Pack includes the following features:         SQL Access Advisor         SQL Tuning Advisor         Oracle Database In-Memory Advisor         Automatic SQL Tuning         SQL Profiles         Real-time SQL and PL/SQL Monitoring         Real-time Database Operations Monitoring         Reorganize objects         A new initialization parameter, CONTROL MANAGEMENT_PACK_ACCESS, it 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 and Oracle Tuning Pack functionally is enabled in the database server.         NONE: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server.         NONE: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server.         Any and all methods of accessing Oracle Tuning Pack functionally, whether through Enterprise Manager Console, Desktop Widgets, command-line APIs, or direct access to the underlying data, requires ar 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, the navigation bar contains the Management Pack Access link. Click this link.         • When you click the Setup link, the navigation bar c

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

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

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

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

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

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

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

https://support.oracle.com

2. Log in to My Oracle Support.

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

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

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

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

#### Note:

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

# 1.7 Special License Rights

Table 1-16 S	Special L	icense	Rights
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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.
GoldenGate Supplemental Logging	GoldenGate Supplemental Logging feature enables logging of additional information in the redo logs. GoldenGate Supplemental Logging is enabled when the database parameter ENABLE_GOLDENGATE_REPLICATION is set to TRUE. GoldenGate Supplemental Logging is a licensed feature that requires either a software license or an authorized managed cloud client for consuming the GoldenGate supplemental log records. For on-premises GoldenGate supplemental log capture, a license for Oracle GoldenGate is required regardless of which APIs are used for log consumption (e.g., LogMiner, XStream or 3rd party tools). See <i>Oracle GoldenGate Licensing Information</i> for more information about GoldenGate licenses. Authorized managed cloud services, such as Oracle Cloud Infrastructure GoldenGate, may also consume GoldenGate supplemental log records. See "Oracle PaaS and IaaS Universal Credits Service Descriptions" (https://www.oracle.com/contracts/docs/paas_iaas_universal_credits_3940775.pdf) for more information. When the database parameter ENABLE_GOLDENGATE_REPLICATION is set to TRUE, the end user must be using an authorized managed cloud client or have licensed Oracle GoldenGate for the database processors. Contact your Oracle sales representative for additional information.
Infrastructure repository databases	A separate single instance Oracle Database can be installed and used as an infrastructure repository for RMAN, Oracle Enterprise Manager Cloud Control, Automatic Workload Repository (AWR) Warehouse, Global Data Services Catalog, Sharding Catalog, and Grid Infrastructure Management Repository without additional license requirements, provided that all the targets are correctly licensed. It may not be used or deployed for other uses.
	The infrastructure repositories for RMAN, Oracle Enterprise Manager Cloud Control, AWR Warehouse, Global Data Services Catalog, and Sharding Catalog can be shared in one database, or deployed in separate databases. Enterprise Edition must be used for the infrastructure repository database(s).
	If Oracle RAC is used for the infrastructure database, then Oracle RAC licenses for all servers, and Enterprise Edition licenses for all but the first server, are required.
	If Data Guard is used for the infrastructure database for RMAN, Oracle Enterprise Manager Cloud Control, AWR Warehouse, Global Data Services, and Grid infrastructure management Repository, then an Enterprise Edition license for the standby server is required. The Infrastructure Database for the Sharding Catalog can be protected with Data Guard without a second Enterprise Edition license.

Feature / Option	Licensing Information
Oracle ASM Cluster File System (Oracle ACFS)	<ul> <li>When used with non-Oracle Database files, all Oracle ACFS features are free.</li> <li>When used with Oracle Database files, all Oracle ACFS features are free, with the following exceptions: <ul> <li>ACFS Auditing - Not available (use Oracle Audit Vault*)</li> <li>ACFS Compression - Not available (use Oracle Advanced Compression*)</li> <li>ACFS Encryption - Not available (use Oracle Transparent Data Encryption (TDE), part of the Oracle Advanced Security option*)</li> <li>ACFS Security - Not available (use Oracle Database Vault*)</li> <li>* Requires appropriate full-use licenses to these products or components.</li> </ul> </li> <li>Oracle will provide support services for Oracle ACFS only if the server it operates on also operates an Oracle product, which may include Oracle Linux or Oracle Solaris, which is under an Oracle support contract.</li> </ul>
Oracle Automatic Storage Management (Oracle ASM)	Oracle ASM is free to use with all Oracle databases and Oracle ACFS file systems.
Oracle Clusterware	Oracle Clusterware provides cluster membership and high availability monitoring and failover. Oracle Clusterware may be used to protect any application (restarting or failing over the application in the event of a failure) on any server, free of charge. Oracle will provide support for Clusterware only if the server is running an Oracle product that is under a valid Oracle support contract. Examples of such products include, but are not limited to, Oracle Linux, Oracle Solaris, Oracle Database, and Oracle Fusion Middleware.
Oracle Connection Manager	Oracle Connection Manager can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Connection Manager.
Oracle Data Guard broker	You can install the broker command line interface DGMGRL and run the observer software on computer systems that are separate from the Oracle Data Guard primary and standby systems. It is not necessary to obtain a separate license for a system hosting the observer.
Oracle Database Backup Cloud Service	<ul> <li>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:</li> <li>RMAN backup encryption</li> <li>All RMAN backup compression algorithms</li> <li>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.</li> </ul>
Oracle Database Gateway for ODBC	Oracle Database Gateway for ODBC can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Gateway for ODBC.
Oracle Database Provider for DRDA	Oracle Database Provider for DRDA can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Database Provider for DRDA.
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.

### Table 1-16 (Cont.) Special License Rights

Feature / Option	Licensing Information
Oracle JDK and Oracle JRE	Oracle customers of Oracle products that use the Oracle JDK or Oracle JRE are entitled, without the need to separately purchase Oracle Java SE Subscriptions, to the following:
	<ul> <li>Download and use Oracle Java SE updates, patches, and tools for use with the licensed Oracle product. Customers are only entitled to download such Java SE versions as are required by their Oracle product.</li> </ul>
	Install and use such Java SE updates, patches, and tools to develop or deploy an Oracle product.
	<ul> <li>Customers can file service requests for Java issues against an Oracle product, but not directly against Java SE.</li> </ul>
	<ul> <li>Oracle JFR may be used when requested by Oracle Support for troubleshooting Oracle products on any supported Oracle product.</li> </ul>
Oracle Real Application Clusters (RAC) and Real Application Clusters One Node	The following licensing information applies when using Oracle Real Application Clusters or Real Application Clusters One Node in a clustered server environment with Oracle Database Standard Edition 2:
	• You must use Oracle Clusterware. Third-party clusterware management solutions are not supported.
	<ul> <li>Oracle Automatic Storage Management (Oracle ASM) or Oracle ASM Cluster File System (Oracle ACFS) is required for creating and managing all Oracle database file types. Raw volumes, partitions, or third-party cluster file systems are not supported for storing Oracle database files with Oracle Database Standard Edition 2, and Oracle RAC or RAC One Node. Refer to Oracle Automatic Storage Management Administrator's Guide for a comprehensive list of all database file types.</li> </ul>
	<ul> <li>Oracle ACFS or a local OS file system must be used to store all non-database files. No Oracle-maintained copies of any non-database files can exist in any other locations, with the following exceptions:</li> </ul>
	<ul> <li>Customers who want to manually script maintenance of a standby database can create a second copy of their archive logs outside of Oracle ASM on a local file system only, designated by the LOG ARCHIVE DEST <i>n</i> parameter.</li> </ul>
	<ul> <li>RMAN backups of files can reside on either a local or network mounted file system.</li> </ul>
	<ul> <li>No other cluster software can be installed on the system, including OCFS, OCFS2, third-party clusterware, third-party cluster volume managers, and third- party cluster file systems.</li> </ul>

# Table 1-16 (Cont.) Special License Rights

Feature / Option	Licensing Information
Oracle Real Application Testing	The full functionality of Oracle Real Application Testing is available only on Oracle Database 11g Release 1 or higher. Partial functionality of Oracle Real Application Testing is available to customers wishing to upgrade from Oracle9 <i>i</i> Database Release 2 or Oracle Database 10g.
	The functionality available on Oracle9 <i>i</i> Database Release 2 is as follows:
	• <b>Database Replay</b> : Only the Workload Capture feature is supported, and the captured workload may only be replayed only on Oracle Database 11g. This feature can be used only to facilitate upgrades from Oracle 9 <i>i</i> Database Release 2 to Oracle Database 11g or higher.
	The functionality available on Oracle Database 10g Release 2 is as follows:
	• <b>Database Replay</b> : 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 Oracle Secure Backup Cloud	For backup of Oracle Database Enterprise Edition, Oracle Secure Backup includes restricted use licenses for:
Module	RMAN backup encryption to tape or Amazon S3
	<ul> <li>RMAN backup compression leveraging LOW, MEDIUM, BASIC or HIGH algorithms</li> </ul>
	The Oracle Secure Backup special-use licenses apply to RMAN backup encryption, which is a component of the Oracle Advanced Security option, and RMAN backup compression levels, which are components of the Oracle Advanced Compression option. To use additional features of the Oracle Advanced Security option or the Oracle Advanced Compression option, you must license those options separately. In addition, the Oracle Advanced Security option must be licensed when performing RMAN encrypted backups directly to disk whether or not Oracle Secure Backup is the media manager.
Oracle Secure Backup Cloud Module on ZDLRA	Oracle Secure Backup Cloud Module can be used free of charge on Oracle Zero Data Loss Recovery Appliance (ZDLRA) for the sole purpose of backing up data to and restoring data from S3-compatible storage devices that are in the same campus as ZDLRA.
	This special use license does not allow you to move such data to or from Non-Oracle Public Cloud Environments, either directly or through gateway devices.
	You are allowed to move such data to and from Oracle databases that do not have ZDLRA, however, Oracle Secure Backup Cloud Module must be licensed on those Oracle databases. For example, if you use Oracle Secure Backup Cloud Module free of charge on ZDLRA to back up data to an S3-compatible storage device, you can then use Oracle Secure Backup Cloud Module to restore that data to an Oracle database without ZDLRA, but only if Oracle Secure Backup Cloud Module is licensed on that Oracle database.
	To move data to or from the Oracle Cloud Infrastructure, the ZDLRA provides an integration with the OCI Backup Cloud Module which does not require a license.

# Table 1-16 (Cont.) Special License Rights

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

# Table 1-16 (Cont.) Special License Rights

# 1.8 Restricted Use Licenses

Table 1-17 Restricted Use Licenses	Table 1-17	Restricted	Use Licens	es
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Feature / Option	Licensing Information
Oracle Advanced Compression Oracle Advanced Security	<ul> <li>Restricted use licenses for Oracle Advanced Compression and Oracle Advanced Security are granted when performing either of the following migrations:</li> <li>Oracle Zero Downtime Migration</li> <li>Oracle Cloud Infrastructure Database Migration (DMS)</li> <li>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.</li> </ul>
Oracle Advanced Security	<ul> <li>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.</li> <li>Oracle Advanced Security includes a restricted use license for the following Oracle Enterprise Manager features: <ul> <li>Application Data Models (previously called Data Discovery and Modeling)</li> <li>Sensitive Column Types and Sensitive Data Discovery</li> <li>Application Accelerators</li> </ul> </li> <li>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.</li> </ul>
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#### Figure 2-1 RSA Secure Logo





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The initial code for shuffling an array (originally in class

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- web-common 3 0.xsd
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For the following XML Schemas for Java EE Deployment Descriptors:

- javaee 5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd



- web-app 3 0.xsd
- web-common 3 0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp 2 3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app 4 0.xsd
- web-common 4 0.xsd
- web-fragment 4 0.xsd

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- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd



- web-common 3 0.xsd
- web-fragment 3 0.xsd
- javaee 7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
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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
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Version 1.1 - 26 February 2007

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

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#### gdal/frmts/pcraster/libcsf

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

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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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=== Knockout.js 3.4.0 ===

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

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=== Normalize.css ===

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=== jsTree 1.0-rc3 ===

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

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

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<pre>js/libs/knockout/knockout-3.4.0.js js/libs/knockout/knockout-mapping-latest.js js/libs/require/require.js js/libs/require/text.js js/libs/jguery/jquery-3.1.1.js js/libs/jquery/jquery-and-1.12.0.custom.js js/libs/jquery/jqueryui-and-1.12.0/core.js js/libs/jquery/jqueryui-and-1.12.0/draggable.js js/libs/jquery/jqueryui-and-1.12.0/mouse.js js/libs/jquery/jqueryui-and-1.12.0/position.js js/libs/jquery/jqueryui-and-1.12.0/position.js js/libs/jquery/jqueryui-and-1.12.0/sortable.js js/libs/jquery/jqueryui-and-1.12.0/widget.js js/libs/jquery/jqueryui-and-1.12.0/widget.js js/libs/history/history.iegte8.js js/libs/crossroads/crossroads.js js/libs/oj/v3.1.0/min/ojselectcombobox.js (Select2.js) js/libs/oj/v3.1.0/min/ojtree.js (jsTree.js) js/libs/oj/v3.1.0/jl10n.js (requireJS i18n) js/libs/hammer/hammer-2.0.8.js js/libs/require-css/css.js (require-css)</pre>	MIT 3.4.0 MIT 2.4.1 MIT 2.3.2 MIT 2.0.15 MIT 1.0.0 MIT 3.1.1 MIT 1.12.0 MIT 1.12.0 MIT 1.12.0 MIT 1.12.0 MIT 1.12.0 MIT 1.12.0 MIT 1.12.0 MIT 4.1.0 MIT 4.1.0 MIT 4.0.5 MIT 0.12.0 Apache 2.1.0 MIT 1.0 MIT 2.0.2 MIT 2.0.8 MIT 0.1.8
<pre>scss/oj/v3.1.0/3rdparty/normalize/normalize.scss</pre>	MIT 1.0

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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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=== RequireJS i18n 2.0.2 ===

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=== jsTree 1.0-rc3 ===

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=== ES6-Promise v1.0.0 ===

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

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

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

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=== RequireJS text 2.0.12 ===

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== RequireJS 2.1.16 ==

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/*! Hammer.JS - v2.0.4 - 2014-09-28
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*
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*/
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and the initial implementation of incremental propagation, including the following new or changed files:

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_____
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Mersenne Twister

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

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

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init\_genrand(seed) or init\_by\_array(init\_key, key\_length).

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

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

Sockets

-----

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

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Floating point exception control

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MD5 message digest algorithm

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- L. Peter Deutsch

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Independent implementation of MD5 (RFC 1321).

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

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

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

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

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

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

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

1999-05-03 lpd Original version.

Asynchronous socket services

-----

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

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

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

XML Remote Procedure Calls

\_\_\_\_\_

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test\_epoll

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-----

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Mersenne Twister

\_\_\_\_\_

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

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

Coded by Takuji Nishimura and Makoto Matsumoto.

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Before using, initialize the state by using init\_genrand(seed) or init\_by\_array(init\_key, key length).

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Sockets

-----

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

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Asynchronous socket services

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

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

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-----

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test\_epoll

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Select kqueue

-----

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SipHash24

-----

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

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**Original location:** 

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

Solution inspired by code from:

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

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

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

strtod and dtoa

-----

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



expat

-----

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libffi

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zlib

-----



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#### cfuhash

-----

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.....
Lib/compiler/transformer.py
. . . . . . . . . . . . . . .
# Original version written by Greg Stein (gstein@lyra.org)
                          and Bill Tutt (rassilon@lima.mudlib.org)
# February 1997.
#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
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