Oracle® Database Database Licensing Information User Manual



ORACLE

Oracle Database Database Licensing Information User Manual, 18c

E87202-08

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Contents

Preface

Audience	v
Documentation Accessibility	V
Related Documents	v
Conventions	v

1 Licensing Information

1.1	Intro	duction	1-1						
1.2	Orac	le Database Offerings	1-1						
1.3	1.3 Permitted Features, Options, and Management Packs by Oracle Database Offering								
1.4	Orac	le Database Options and Their Permitted Features	1-16						
1.5	L.5 Oracle Management Packs and Their Permitted Features								
1.6	Cheo	king for Feature, Option, and Management Pack Usage	1-46						
1.7	Spec	ial License Rights	1-47						
1.8	Rest	ricted Use Licenses	1-52						
1.9	Thirc	-Party Notices and/or Licenses	1-54						
	1.9.1	Commercial Software	1-54						
	1.9.2	Open Source or Other Separately Licensed Software	1-55						

A Open Source Software License Text

A.1	Apache Batik SVG Toolkit 1.9 License	A-1
A.2	Apache Batik SVG Toolkit 1.10 License	A-4
A.3	Apache Commons Math 3.6.1 License	A-22
A.4	Apache Tomcat 8.5.32 License	A-26
A.5	Font Awesome 4.5 License	A-42
A.6	GeoNames Data 1.1.11 License	A-44
A.7	Geospatial Data Abstraction Library/OpenGIS Simple Features Reference	
	Implementation (GDAL/OGR) 2.1 License	A-49
A.8	JavaScript Extension Toolkit (JET) 2.0.2 License	A-53
A.9	JavaScript Extension Toolkit (JET) 3.0.0 License	A-61



A.10	JavaScript Extension Toolkit (JET) 3.2.0 License	A-68
A.11	Kerberos 1.15 License	A-76
A.12	Perl Interpreter 5.22.0 License	A-95
A.13	Protocol Buffers (aka Google protobuf) 3.5.1	A-97
A.14	Python 2.7.14 License	A-99
A.15	Python 3.5.3 License	A-116
A.16	The Apache Software License, Version 1.1	A-135
A.17	The Apache Software License, Version 2.0	A-135
A.18	ant 1.9.6 License	A-139

Index



Preface

This Preface contains these topics:

- Audience
- Documentation Accessibility
- 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.

Access to Oracle Support

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

Related Documents

For more information, see these Oracle resources:

- Oracle Database New Features Guide for information on the features new to this release of Oracle Database
- The Software Investment Guide, available at:

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

Conventions

The following text conventions are used in this document:



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



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
- Third-Party Notices and/or 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/license-management-services/index.html.

1.2 Oracle Database Offerings

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

Table 1-1 Oracle Database Offerings



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

Table 1-1 (Cont.) Oracle Database Offerings

Oracle Database Offering	Offering Type	Abbreviated Name Used in this Guide	Description
Oracle Database Exadata Cloud Service	Cloud	ExaCS	Includes Oracle Database Enterprise Edition software plus all Oracle Database options and Oracle management packs that are appropriate for use in Oracle Database Exadata Cloud Service.
			The licensing policies for ExaCS also apply to Oracle Database Exadata Cloud at Customer.

Table 1-1 (Cont.) Oracle Database Offerings

🖍 See Also:

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

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

The tables in this section list Oracle Database features, Oracle Database options, and Oracle management packs, and their availability for each Oracle Database offering. The 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 1-2Consolidation

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

Table 1-3 Development Platform

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

		-							
Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
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	Y	Y	N/A	N/A	N/A	N/A	N/A	N/A	Windows only

Table 1-3 (Cont.) Development Platform

Table 1-4 High Availability

Procedures

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Application Continuity	N	Y	Y	N	N	N	Y	Y	EE and EE-ES : Requires the Oracle Active Data Guard option or the Oracle Real Application Clusters option
Oracle Sharding	N	Y	Y	N	Y	Y	Y	Y	EE and EE-ES: No limit on the number of either primary shards or standby shards if every shard has an Oracle Active Data Guard, Golden Gate, or Oracle RAC license. Without an Oracle Active Data Guard, Golden Gate, or Oracle RAC license, use is limited to three primary shards, with basic Data Guard standbys. Authorized Cloud Environments, DBCS EE, and DBCS EE-HP: Use is limited to three primary shards; there is no limit on the number of standby shards. DBCS EE-EP and ExaCS: No limit on the number of either primary shards or standby shards.
Oracle Fail Safe	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	Ν	Y	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	EE and EE-ES : Requires the Oracle Active Data Guard option



Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Oracle Data Guard —SQL Apply	N	Y	Y	Ν	Y	Y	Y	Y	
Oracle Data Guard —Snapshot Standby	N	Y	Y	Ν	Y	Y	Y	Y	
Oracle Data Guard —Real-Time Cascading Standbys	N	Y	Y	N	Ν	Ν	Y	Y	EE and EE-ES : Requires the Oracle Active Data Guard option
Oracle Data Guard —Automatic Correction of Non- logged Blocks at a Data Guard Standby Database	N	N	Y	N	Y	Y	Y	Y	
Oracle Active Data Guard	N	Y	Y	N	N	Ν	Y	Y	EE and EE-ES : Extra cost option
Rolling Upgrades— Patch Set, Database, and Operating System	N	Y	Y	N	Y	Y	Y	Y	
Rolling Upgrade Using Active Data Guard	N	Y	Y	N	N	N	Y	Y	EE and EE-ES : Requires the Oracle Active Data Guard option
Online index rebuild	Ν	Y	Y	Ν	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	N	Y	Y	Y	Y	Using the DBMS_REDEFINITION package
Duplexed backup sets	N	Y	Y	Ν	Y	Y	Y	Y	
Block change tracking for fast incremental backup	N	Y	Y	N	N	Ν	Y	Y	
Unused block compression in backups	N	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	Ν	Y	Y	Y	Y	
Automatic Block Repair	N	Y	Y	Ν	Ν	Ν	Y	Y	EE and EE-ES : Requires the Oracle Active Data Guard option
Parallel backup and recovery	N	Y	Y	Ν	Y	Y	Y	Y	

Table 1-4 (Cont.) High Availability

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Tablespace point-in- time recovery	Ν	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	Ν	Y	Y	Y	Y	
Flashback Database	Ν	Y	Y	Ν	Y	Y	Y	Y	
Flashback Transaction	Ν	Y	Y	Ν	Y	Y	Y	Y	
Flashback Transaction Query	Ν	Y	Y	Ν	Y	Y	Y	Y	
Optimization for Flashback Data	Ν	Y	Y	Ν	Ν	Y	Y	Y	Basic Flashback Data Archive is in all offerings
Archive									EE and EE-ES : Optimization for Flashback Data Archive requires the Oracle Advanced Compression option
Online Datafile Move	Ν	Y	Y	Ν	Y	Y	Y	Y	
Transaction Guard	Ν	Y	Y	Ν	Y	Y	Y	Y	
Cross-platform Backup and Recovery	N	Y	Y	Ν	Y	Y	Y	Y	
Global Data Services	N	Y	Y	Ν	Ν	Ν	Y	Y	EE and EE-ES : Requires the Oracle Active Data Guard option
Recovering tables and table partitions from RMAN backups	N	Y	Y	N	Y	Y	Y	Y	

Table 1-4 (Cont.) High Availability

Table 1-5 Integration

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Oracle Streams	Y	Y	Y	Y	Y	Y	Y	Y	SE2 and DBCS SE: no capture from redo
Database Gateways	Y	Y	Y	Y	Y	Y	Y	Y	Separate product license
Messaging Gateway	Ν	Y	Y	Ν	Y	Y	Y	Y	
Sharded Queues	N	Y	Y	Ν	N	Y	Y	Y	EE and EE-ES : Requires the Oracle Partitioning option



Table 1-6	Manageability
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Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Oracle Cloud Management Pack for Oracle Database	N	Y	Y	N	N	Y	Y	Y	EE and EE-ES : Extra cost option
Oracle Data Masking and Subsetting Pack	Ν	Y	Y	N	Y	Y	Y	Y	EE and EE-ES: Extra cost option
Oracle Database Lifecycle Management Pack for Oracle Database	N	Y	Y	N	N	Y	Y	Y	EE and EE-ES : Extra cost option
Oracle Diagnostics Pack	Ν	Y	Y	N	Y	Y	Y	Y	EE and EE-ES : Extra cost option
Oracle Tuning Pack	Ν	Y	Y	N	Y	Y	Y	Y	EE and EE-ES: Extra cost option, also requires Oracle Diagnostics Pack
Oracle Real Application Testing	Ν	Y	Y	Ν	Y	Y	Y	Y	EE and EE-ES : Extra cost option
Database Resource Manager	Ν	Y	Y	Ν	Y	Y	Y	Y	
I/O Resource Management	Ν	Ν	Y	Ν	Ν	Ν	Ν	Y	
Instance Caging	Y	Y	Y	N/A	N/A	N/A	N/A	N/A	

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
SQL Plan Management	Y (See Notes)	Y	Y	Y (See Notes)	Y	Y	Y	Y	SE2 and DBCS SE Summary: Only one SQL plan baseline per SQL statement is allowed and SQL plan evolution is disabled.
									SE2 and DBCS SE Details:
									 SQL plan baselines can be created or captured using the following methods: Auto capture (OPTIMIZER_CAPTUR E_SQL_PLAN_BASEL INE=TRUE) Manual loading from the cursor cache (DBMS_SPM.LOAD_PL ANS_FROM CURSOR_CACHE) Migration from stored outlines
									 (DBMS_SPM.MIGRATE _STORED_OUTLINE) Import using DBMS_SPM.UNPACK_ STGTAB_BASELINE
									2. All capture and creation methods store only one SQL plan baseline per SQL statement.
									3. SQL plan baselines can be exported and imported using DBMS_SPM.CREATE_STGT AB_BASELINE, DBMS_SPM.PACK_STGTAB _BASELINE, and DBMS_SPM.UNPACK_STGT AB_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.

Table 1-6 (Cont.) Manageability



Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Not	tes
									6.	SQL plan baselines can be altered and dropped (DBMS_SPM.ALTER_SQL_P LAN_BASELINE and DBMS_SPM.DROP_SQL_PL AN_BASELINE).
									7.	The following DBMS_SPM functions and procedures are not allowed: CONFIGURE, LOAD_PLANS_FROM_AWR, LOAD_PLANS_FROM_SQLS ET, and all functions and procedures associated with SQL plan evolution.
SQL Tuning Sets	Ν	Y	Y	N	Y	Y	Y	Y	Set by v API inte sub DBM mai par offe follo of ti pac inte Tur par offe ADD CAP SET CRE DEL DRO PAC REM SEL SEL SEL RY,	and EE-ES: SQL Tuning s can also be accessed way of database server s and command-line rfaces. Usage of any programs in the S_SQLSET package to mage SQL Tuning Sets is t of the EE and EE-ES erings. In addition, the owing subprograms, part he DBMS_SQLTUNE ekage, provide an older erface to manage SQL ming Sets and are also t of the EE and EE-ES erings: _SQLSET_REFERENCE, TURE_CURSOR_CACHE_SQL of the EE and EE-ES erings: _SQLSET_REFERENCE, TURE_CURSOR_CACHE_SQL of, CREATE_SQLSET, ATE_STGTAB_SQLSET, ETE_SQLSET, LOAD_SQLSET, K_STGTAB_SQLSET, ECT_CURSOR_CACHE, ECT_SQLSET, ECT_WORKLOAD_REPOSITO UNPACK_STGTAB_SQLSET, ATE_SQLSET,

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Rapid Home Provisioning	Ν	Y	Y	N/A	N/A	N/A	N/A	N/A	EE and EE-ES: When deployed across multiple clusters, requires Oracle Database Lifecycle Management Pack for Oracle Database on targets

Table 1-6 (Cont.) Manageability

Table 1-7 Networking

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

Table 1-8 Performance

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Client Side Query Cache	N	Y	Y	N	Y	Y	Y	Y	
Query Results Cache	Ν	Y	Y	N	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	Ν	Ν	Ν	EE and EE-ES : Extra cost option
Database Smart Flash Cache	Ν	Y	Y	N/A	N/A	N/A	N/A	N/A	EE: Solaris and Oracle Linux only
									EE-ES : Available on Oracle Database Appliance. Not available on Exadata
Support for Oracle Exadata Storage Server Software	N	Y	Y	Ν	N	N	Ν	Y	
Adaptive Execution Plans	N	Y	Y	Ν	Y	Y	Y	Y	



Table 1-8 (Cont.) Performance

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

Table 1-9 Scalability

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Oracle Real Application Clusters (Oracle RAC)	Y	Y	Y	N	N	N	Y	Y	EE and EE-ES : Extra cost option
Automatic Workload Management	Y	Y	Y	Ν	N	N	Y	Y	EE and EE-ES : Requires the Oracle Real Application Clusters option
Quality of Service Management	Y	Y	Y	Ν	N	N	Y	Y	EE and EE-ES : Requires the Oracle Real Application Clusters option
Oracle NoSQL Database Basic 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	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Column-Level Encryption	N	Y	Y	Ν	N	Y	Y	Y	EE and EE-ES: Requires the Oracle Advanced Security option
Tablespace Encryption	N	Y	Y	Y	Y	Y	Y	Y	EE and EE-ES: Requires the Oracle Advanced Security option
Oracle Advanced Security	N	Y	Y	Ν	Ν	Y	Y	Y	EE and EE-ES : Extra cost option
Oracle Database Vault	Ν	Y	Y	Ν	Ν	Y	Y	Y	EE and EE-ES : Extra cost option
Oracle Label Security	Ν	Y	Y	Ν	Ν	Y	Y	Y	EE and EE-ES : Extra cost option
Enterprise User Security	Ν	Y	Y	Ν	Y	Y	Y	Y	EE, EE-ES, DBCS EE, DBCS EE-HP, DBCS EE- EP, and ExaCS: Enterprise User Security is a feature for directory-based management of database users. It requires a corresponding Oracle Identity Management Directory Services Plus to be licensed.
Centrally Managed Users	N	Y	Y	Ν	Y	Y	Y	Y	EE, EE-ES, DBCS EE, DBCS EE-HP, DBCS EE- EP, and ExaCS: Centrally Managed Users is a feature for centrally authenticating and authorizing database users with Microsoft Active Directory.



Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Fine-grained Auditing	Ν	Y	Y	N	Y	Y	Y	Y	
Privilege Analysis	Ν	Y	Y	Ν	Y	Y	Y	Y	
Real Application Security	Ν	Y	Y	Ν	Y	Y	Y	Y	
Redaction	Ν	Y	Y	Ν	N	Y	Y	Y	EE and EE-ES : Requires the Oracle Advanced Security option
Transparent Sensitive Data Protection	Ν	Y	Y	Ν	Y	Y	Y	Y	
Virtual Private Database	Ν	Y	Y	N	Y	Y	Y	Y	
Keystore for Each Pluggable Database	Ν	Ν	Y	Ν	Y	Y	Y	Y	

Table 1-10(Cont.) Security

Table 1-11 Snapshots and Cloning

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

Table 1-12 Spatial and Graph Data

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

Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
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	Ν	N	Y	Y	Y	EE and EE-ES : Extra cost option
Oracle Advanced Analytics	Ν	Y	Y	Ν	Ν	Y	Y	Y	EE and EE-ES : Extra cost option
Oracle Advanced Compression	N	Y	Y	Ν	N	Y	Y	Y	EE and EE-ES : Extra cost option
Advanced Index Compression	N	Y	Y	Ν	N	Y	Y	Y	EE and EE-ES : Requires the Oracle Advanced Compression option
Prefix Compression (also called Key Compression)	N	Y	Y	Ν	Y	Y	Y	Y	
Hybrid Columnar Compression	Ν	Y	Y	Ν	Y	Y	Y	Y	EE : Requires ZFS, Axiom, or FS1 storage
Hybrid Columnar Compression Row- Level Locking	Ν	Y	Y	N	Ν	Ν	Ν	Y	EE: Requires ZFS or FS1 storage, and the Oracle Advanced Compression option EE-ES: Requires the Oracle Advanced Compression option
Exadata Flash Cache Compression	N	Ν	Y	N	N	N	N	Y	EE-ES : Available on Exadata and requires the Oracle Advanced Compression option. Not available on Oracle Database Appliance.
Heat Map	N	Y	Y	N	N	Y	Y	Y	EE and EE-ES : Requires the Oracle Advanced Compression option or the Oracle Database In-Memory option
Automatic Data Optimization	N	Y	Y	N	N	Y	Y	Y	EE and EE-ES : Requires the Oracle Advanced Compression option or the Oracle Database In-Memory option
Basic Table Compression	N	Y	Y	Ν	Y	Y	Y	Y	
Deferred Segment Creation	Ν	Y	Y	Ν	Y	Y	Y	Y	

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



Feature / Option / Pack	SE2	EE	EE- ES	DBCS SE	DBCS EE	DBCS EE-HP	DBCS EE-EP	ExaCS	Notes
Bitmapped index, bitmapped join index, and bitmap plan conversions	N	Y	Y	Ν	Y	Y	Y	Y	
Parallel query/DML	Ν	Y	Y	Ν	Y	Y	Y	Y	
Parallel statistics gathering	Ν	Y	Y	Ν	Y	Y	Y	Y	
Parallel index build/ scans	Ν	Y	Y	Ν	Y	Y	Y	Y	
Parallel Data Pump Export/Import	Ν	Y	Y	Ν	Y	Y	Y	Y	
In-memory Parallel Execution	Ν	Y	Y	Ν	Y	Y	Y	Y	
Parallel Statement Queuing	Ν	Y	Y	Ν	Y	Y	Y	Y	
Parallel capture and apply via XStream	Ν	Y	Y	Ν	Y	Y	Y	Y	
Transportable tablespaces, including cross- platform and full transportable export and import	Ν	Y	Y	Ν	Y	Y	Y	Y	Import of transportable tablespaces supported into SE2
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, DBCS EE-EP, ExaCS	 Oracle Active Data Guard includes the following features: Physical Standby with Real-time Query Fast Incremental Backup on Physical Standby Automatic Block Repair Active Data Guard Far Sync Global Data Services Real-Time Cascade Application Continuity Rolling Upgrade using Active Data Guard In an Oracle Data Guard configuration: Oracle Active Data Guard must be licensed on any standby databases with any of the above features in use, as well as the primary database. If there are additional standby databases in the Oracle Data Guard configuration that are not using any of the Oracle Active Data Guard features, those standby databases. The container root (CDB\$Root) of the standby database may be opened read-only without requiring an Oracle Active Data Guard license is only required if any of the pluggable databases in the standby is opened for read.
Oracle Advanced Analytics	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS	 Oracle Advanced Analytics includes the following features: In-database data mining algorithms: Model build (accessed via the DBMS_DATA_MINING package) Data transformations (accessed via the DBMS_DATA_MINING_TRANSFORM package) Model scoring (accessed via SQL Scoring functions) Predictive Analytics (accessed via the DBMS_PREDICTIVE_ANALYTICS package) Oracle R Enterprise (integration with open-source R) The Oracle R Enterprise R transparency layer: The transparency layer allows an R user to directly interact with database-resident data using R language constructs. The Oracle R Enterprise statistics engine, a collection of statistical functions and procedures. Embedded R: ORE can launch multiple R servers while the database manages data flows to enable parallel R processes running independently. All Oracle R Enterprise functionality is invoked using the ORE package.

 Table 1-14
 Oracle Database Options and Their Permitted Features



Option	Availability	Included Features
Oracle Advanced Compression	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS	 Oracle Advanced Compression includes the following features: Advanced Row Compression Advanced LOB Compression Advanced LOB Deduplication RMAN Backup Compression (RMAN DEFAULT COMPRESS does not require the Oracle Advanced Compression option) Data Pump Export Data Compression (COMPRESSION=METADATA_ONLY does not require the Oracle Advanced Compression option) Heat Map Automatic Data Optimization Data Guard Redo Transport Compression Advanced Network Compression Optimization for Flashback Data Archive History Tables Storage Snapshot Optimization Online Move Partition (to any compressed format) 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.) Advanced Index Compression Hybrid Columnar Compression Row-Level Locking (Requires Exadata, Oracle Database Appliance, Supercluster, ZFS, or FS1 storage)
Oracle Advanced Security	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS	 Oracle Advanced Security incudes the following features: Transparent Data Encryption (TDE) for tablespaces and columns (including Oracle SecureFiles)

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

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

Table 1-14	(Cont.) Oracle Database	Options and	Their Permitted Features
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Option	Availability	Included Features
Oracle Partitioning	Extra cost option: EE, EE-ES Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS	 Oracle Partitioning includes the following features: Table Partitions and Subpartitions Global and Local Index Partitions and Subpartitions Sharded Queues Zone Maps (Available only on EE-ES or ExaCS – requires Exadata or Supercluster)
Oracle RAC One Node	Extra cost option: EE, EE-ES Included option: SE2, ExaCS	 Oracle RAC One Node includes the following features: Database Cold Failover to another node in the cluster in case of server or instance failure Online migration of the database instance to another server Support for online rolling upgrades of the database, grid infrastructure, and OS homes Online upgrade to Oracle Real Application Clusters Policy-managed Server Pools Quality of Service Management Application Continuity
Oracle Real Application Clusters (Oracle RAC)	Extra cost option: EE, EE-ES Included option: SE2, DBCS EE-EP, ExaCS	following features:

Table 1-14	(Cont.)) Oracle Database (Options and	Their Permitted Features
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Option	Availability	Included Features
Oracle Real Application Testing		
		Real Application Testing option. Database Consolidation Workbench
		 Database Consolidation Workbench Database Consolidation Workbench, introduced in Oracle Enterprise Manager Cloud Control 13c, provides a data-driver and systematic approach to consolidation by eliminating gues work and human errors. Database Consolidation Workbench has three key capabilities: consolidation planning, database migration, and performance validation.
		 Use of the consolidation planning feature of Database Consolidation Workbench requires an Oracle Diagnostics Pac license. Use of the database migration feature of Database
		 Consolidation Workbench requires an Oracle Database Lifecycle Management Pack for Oracle Database license. An Oracle Real Application Testing license permits you to access the following links on the Database Consolidation Workbench page in Oracle Enterprise Manager:
		 From the Enterprise menu, select Consolidation, then select Database Consolidation Workbench.
		 On the database target home page, select the Administration menu, then select Database Consolidation Workbench.
		 All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Consolidation Workbench.

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



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

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

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

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



1.5 Oracle Management Packs and Their Permitted Features

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



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

 Table 1-15
 Oracle Management Packs and Their Permitted Features



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

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

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

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



Management Pack	Availability	Included Features
Oracle Data Masking and Subsetting Pack	Extra cost pack: EE, EE-ES Included pack: DBCS EE, DBCS EE-HP, DBCS EE-EP, ExaCS	Features:
		 Application Data Modeling Data Masking Formats Library Data Masking Definitions
		 Data Subsetting Definitions Application Data Modeling, Data Masking and Subsetting Enterprise Manager Command Line Interface (CLI) verbs Application Data Modeling accelerator for select versions of Oracle E-Business Suite
		Application Data Modeling accelerator for select versions of Oracle Fusion Applications
		Data Masking templates for select versions of Oracle Fusion Applications
		 Data Masking templates for select versions of Oracle E- Business Suite
		Oracle Data Masking and Subsetting Pack includes the following restricted use licenses:
		Database Gateway for APPC
		Database Gateway for DRDA
		Database Gateway for Informix
		Database Gateway for SQLServer
		Database Gateway for Sybase
		• Database Gateway for Teradata If you want to use the Oracle Database Gateways listed above not solely for the purposes of Oracle Data Masking and Subsetting Pack, then you must purchase full-use licenses for the Oracle Database Gateways. When using Oracle Data Masking and Subsetting Pack for non-Oracle databases, the Oracle Database Gateways stage the data in a separately licensed Oracle Database Oracle Data Masking and Subsetting functionality cannot be executed directly against the non-Oracle database.
		Oracle Data Masking and Subsetting Pack must be licensed only for the source database server, i.e., the databases from which the data originates.
		There is no requirement to license the pack for the staging databas server on which masking and subsetting operations are executed, of for copies made of the masked database.
		Notes:
		1. 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.
		 Application Data Modeling was previously called Data Discovery and Modeling.
		Licensed Links:
		All features, functions, links, buttons, and drill-downs on these Oracle Enterprise Manager menus are licensed as part of the Oracle Data Masking and Subsetting Pack.

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

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

Table 1-15	(Cont.) Oracle Management Packs and Their Permitted Features
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Oracle Database Lifecycle Extra cost pack: EE, EE-ES Features: Crocle Database Lifecycle Management Pack for Oracle Database includes the following features: Extra cost pack: EE, for Oracle Database E-HP, DBCS EE- EP, ExaCS Change Activity Plans Configuration Collection Extensibility Configuration Collection Extensibility Configuration Collection Extensibility Configuration Collection Extensibility Configuration Instance Browser Configuration Search Configuration Search Configuration Topology Database Provisioning Database Provisioning Database Provisioning Database Provisioning Database Provisioning Database Provisioning PDB Great/Plug/Unplug (Multiple target operations or performed using a customized deployment procedure.) PDB Migrate RAC Scale Back RAC Scale Dut Real-time configuration change detection Schema and Data Synchronization Schema and Data Synchronization Vitth the purchase of Oracle Database Hore and the Oracle Database Lifecycle Dote Contexe Detabase, Use Database Lifecycle Management Pack for Oracle Database, Dua Boar entitle to the features described in the following sections. These features are restricted to the Oracle Database sponchronization Schema and Data Synchronization Schema Comparisons Schema and Data Synchronization S	Management Pack	Availability	Included Eastures
Lifecycle Management Pack for Oracle Database for Oracle Database for Oracle Database e E-B, ExaCS			
Licensed Parameters:	Lifecycle Management Pack	EE-ES Included pack: DBCS EE-HP, DBCS EE-	 Oracle Database Lifecycle Management Pack for Oracle Database includes the following features: Change Activity Plans Client system analyzer Comfiguration Collection Extensibility Configuration Compare Configuration Instance Browser Configuration Instance Browser Configuration Save Configuration Topology Copy Objects Database Patching Database Provisioning Database Querta and and and and and and and and and an
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 Table 1-15
 (Cont.) Oracle Management Packs and Their Permitted Features

Management Pack	Availability	Included Features
		when set to TRUE. When set to TRUE, the database reports schema changes in real time into the database alert log under the message group schema_ddl. The default setting is FALSE.
		Licensed Links:
		The Licensed Links, features, and functions listed in the following sections apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management on non-Oracle Database targets, you must purchase the appropriate management pack.
		Licensed Links – Database Provisioning Procedures:
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		 From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. All Procedures that Clone and Provision a Database are licensed with Oracle Database Lifecycle Management Pack for Oracle Database.
		 From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Database Provisioning. All features, functions, links, buttons, and drill- downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		 From the Oracle database or cluster database target home page, click the Oracle Database menu, then Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – Database Upgrade:
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		 From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. All Procedures that Upgrade a Database are licensed with Oracle Database Lifecycle Management Pack for Oracle Database.
		 From the Oracle database or cluster database target home page, click the Oracle Database menu, then Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – User Defined Deployment Procedures (UDDP)
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:
		 From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. On the Provisioning Library page, from the list of actions, the Create New option is licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – RAC Scale Out and Scale Back



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

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



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

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



Management Pack	Availability	Included Features
		drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		Licensed Links – Real-time Configuration Change Detection and Compliance:
		Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pac for Oracle Database:
		 From the Enterprise Manager home page, click the Enterprise menu and Compliance. All features, functions, links, buttons, and drill-downs associated with the Library, Results and Real- Time Observations pages are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database. Licensed Reports:
		The following reports are part of Oracle Database Lifecycle Management Pack for Oracle Database. All reports in each of thes sections are licensed as part of this pack. To access the reports go to the Enterprise Manager home page, click the Reports, Information Publisher Reports or BI Publisher Enterprise Reports.
		The following reporting areas, reports, and sub-reports under Information Publisher Reports are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database:
		Compliance
		 Deployment and Configuration
		Sample Host reports, Configuration Reports
		Security
		The following reporting areas, reports and sub-reports under BI Publisher Enterprise Reports are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database:
		Compliance
		Deployment and Configuration
		 Sample Host reports, Configuration Reports
		Security
		Licensed Command Line Interface (CLI) Verbs:
		The following Enterprise Manager Command Line Interface (CLI) verbs are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
		 associate_cs_targets
		• clone_database
		• config_compare
		 config_db_service_target
		 configure_log_archive_locations
		• confirm_instance
		• create_database
		• describe_instance
		 describe_procedure_input
		 disable_config_history
		 enable_config_history
		 export_compliance_group
		 export_compliance_standard_rule

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



Management Pack	Availability	Included Features
		• MGMT\$CS_DB_REC_USER_SETTINGS
		• MGMT\$CS_DB_REDO_LOG_COUNT
		• MGMT\$CS_DB_REDO_LOGS
		• MGMT\$CS_DB_TABLESPACES
		 MGMT\$CS_DB_TBSP_SEGSPACE_MGMT
		• MGMT\$CS_EVAL_SUMMARY
		• MGMT\$CS_FEATURE_USAGE
		MGMT\$CS_GROUP_EVAL_SUMMARY
		 MGMT\$CS_GROUP_KEYWORD
		• MGMT\$CS_HA_INFO
		• MGMT\$CS_HIERARCHY
		• MGMT\$CS_KEYWORD
		• MGMT\$CS_RQS_HIERARCHY
		• MGMT\$CS_RULE_ATTRS
		• MGMT\$CS_RULE_EVAL_SUMMARY
		• MGMT\$CS_RULEFOLDER
		MGMT\$CS_TARGET_ASSOC
		 MGMT\$CS_TGT_ASSOC_TXF_REQ
		• MGMT\$CSG_HIERARCHY
		• MGMT\$CSG_SUBGROUP
		MGMT\$CSR_CURRENT_VIOLATION
		MGMT\$CSR_TARGET_ASSOC
		 MGMT\$CSR_VIOLATION_CONTEXT
		MGMT\$CSRF_TARGET_ASSOC
		MGMT\$EM_CS_RULE_EVENT_ERROR
		 MGMT\$EM_RULE_VIOL_CTXT_DEF
		MGMT\$ICS_TARGET_ASSOC
		 MGMT\$REPO_RULE_CHK_DETAILS
		 MGMT\$REPOSITORY_RULE_BIND_VARS
		 MGMT\$REPOSITORY_RULE_PARAMS
		• MGMT\$RULE_KEYWORD
		Licensed Repository Views – Provisioning and Patching Views
		The following provisioning and patching views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:
		• EM\$PROV_APPTYPES
		• EM\$PROVAPP_METADATA
		EM\$PROVAPP_METADATA_VERSION
		• EM\$PROVAPP_TAG_PROPERTIES
		• EM\$PROVAPP_TAGS
		• MGMT\$PA_RECOM_METRIC_SOURCE
		Licensed Repository Views – Patching Views:
		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
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Management Pack	Availability	Included Features
		• GC_PC_EXECUTION_INSTANCES
		• GC_PC_PLAN_ANALYSIS_RS
		• GC_PC_PLAN_REMEDY
		• GC_PC_PLAN_REMEDY_DETAILS
		• GC_PC_PLAN_USERS
		• GC_PC_TARGETS
		• MGMT\$APPLIED_PATCHES
		• MGMT\$APPLIED_PATCHSETS
		 MGMT\$ARU_FAMILY_PRODUCT_MAP
		MGMT\$ARU_LANGUAGES
		MGMT\$ARU_PATCH_RECOMMENDATIONS
		MGMT\$ARU_PLATFORMS
		 MGMT\$ARU_PRODUCT_RELEASE_MAP
		• MGMT\$ARU_PRODUCTS
		• MGMT\$ARU_RELEASES
		• MGMT\$ARU_TARGETS
		• MGMT\$PA_AFFTED_HOST_GUID_OH
		• MGMT\$PA_AFFTED_HOST_OH
		MGMT\$PA_AFFTED_TARGETS
		 MGMT\$PA_FINAL_PATCH_LIST
		• MGMT\$PA_TARGET_MAPPING
		 MGMT\$PR_APPL_PATCHES_TO_OH
		 MGMT\$PR_APPL_PATCHES_TO_OH_TGT
		• MGMT\$PR_HOME_INFO
		MGMT\$PR_HOMES_AFFECTED_COUNT
		MGMT\$RECOM_METRIC_SOURCE
		Licensed Repository Views – Configuration Views:
		The following configuration views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:
		• GC\$ECM_COMP_PROPERTIES
		• GC\$ECM_CONFIG_SUMMARY
		• GC\$ECM_CURR_CONFIG
		• GC\$ECM_CURR_CONFIG_FLAT_MEMS
		• GC\$ECM_CURR_CONFIG_SNAPSHOTS
		GC\$ECM_CURR_TARGET_SNAPSHOTS
		 GC\$ECM_DATA_RETENTION_TIME
		GC\$ECM_GEN_SNAPSHOT
		• GC\$ECM_SAVED_CONFIG
		• GC\$ECM_SAVED_CONFIG_FLAT_MEMS
		GC\$ECM_SAVED_CONFIG_SNAPSHOTS
		• GC\$ECM_SAVED_CONFIG_TARGETS
		GC\$ECM_SAVED_TARGET_SNAPSHOTS
		• MGMT\$CCS_DATA
		MGMT\$CCS_DATA_SOURCE
		• MGMT\$CCS_DATA_SOURCE_VISIBLE
		• MGMT\$CCS_DATA_VISIBLE



Management Pack Availabil	ty Included Features
	• MGMT\$DB_DATAFILES
	MGMT\$DB_DBNINSTANCEINFO
	MGMT\$DB_FEATUREUSAGE
	• MGMT\$DB_INIT_PARAMS
	• MGMT\$DB_LICENSE
	• MGMT\$DB_OPTIONS
	MGMT\$DB_REDOLOGS
	 MGMT\$DB_ROLLBACK_SEGS
	• MGMT\$DB_SGA
	MGMT\$DB_TABLESPACES
	• MGMT\$DB_TABLESPACES_ALL
	 MGMT\$ECM_CMP_JOB_LAST_RESULTS
	• MGMT\$ECM_CMP_JOBS
	MGMT\$ECM_CMP_RPT_CCS_DS
	• MGMT\$ECM_CMP_RPT_CCS_DS_DTLS
	 MGMT\$ECM_CMP_RPT_CCS_PD_ALL
	 MGMT\$ECM_CMP_RPT_CCS_PD_DIFFS
	 MGMT\$ECM_CMP_RPT_CI_DIFFS
	 MGMT\$ECM_CMP_VISIBLE_CONFIGS
	 MGMT\$ECM_CURRENT_SNAPSHOTS
	 MGMT\$ECM_VISIBLE_SNAPSHOTS
	MGMT\$SERVICETAG_INSTANCES
	MGMT\$SERVICETAG_REGISTRY
	MGMT\$UNPATCHABLE_DB_TARGETS
	Licensed Repository Views – Oracle Home Patching Views:
	The following Oracle home patching views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:
	MGMT\$APPLIED_PATCHES
	MGMT\$APPLIED_PATCHSETS
	MGMT\$APPL_PATCH_AND_PATCHSET
	 MGMT\$CPF_ADVISORY_INFO
	MGMT\$CPF_HOMES_INFO
	 MGMT\$CPF_PATCH_INFO
	MGMT\$EM_HOMES_PLATFORM
	 MGMT\$HOMES_AFFECTED
	MGMT\$OH_LONE_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_INV_BOHINKI

Management Pack	Availability	Included Features
		• MGMT\$OH_PATCHED_FILE
		• MGMT\$OH_PATCH_FIXED_BUG
		• MGMT\$OH_PATCHSET
		• MGMT\$OH_VERSIONED_PATCHV
		• MGMT\$PATCH_ADVISORIES
		Licensed Repository Views – Security Views:
		The following security views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:
		• MGMT\$ESA_ALL_PRIVS_REPORT
		• MGMT\$ESA_ANY_DICT_REPORT
		• MGMT\$ESA_ANY_PRIV_REPORT
		• MGMT\$ESA_AUDIT_SYSTEM_REPORT
		• MGMT\$ESA_BECOME_USER_REPORT
		• MGMT\$ESA_CATALOG_REPORT
		• MGMT\$ESA_CONN_PRIV_REPORT
		• MGMT\$ESA_CREATE_PRIV_REPORT
		• MGMT\$ESA_DBA_GROUP_REPORT
		 MGMT\$ESA_DBA_ROLE_REPORT
		 MGMT\$ESA_DIRECT_PRIV_REPORT
		 MGMT\$ESA_EXMPT_ACCESS_REPORT
		 MGMT\$ESA_KEY_OBJECTS_REPORT
		• MGMT\$ESA_OH_OWNERSHIP_REPORT
		• MGMT\$ESA_OH_PERMISSION_REPORT
		 MGMT\$ESA_POWER_PRIV_REPORT
		• MGMT\$ESA_PUB_PRIV_REPORT
		 MGMT\$ESA_SYS_PUB_PKG_REPORT
		• MGMT\$ESA_TABSP_OWNERS_REPORT
		• MGMT\$ESA_TRC_AUD_PERM_REPORT
		 MGMT\$ESA_WITH_ADMIN_REPORT
		• MGMT\$ESA_WITH_GRANT_REPORT
		Licensed Repository Views – Client Configuration Views:
		The following client configuration views within the repository schem are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:
		• MGMT\$CSA_COLLECTIONS
		• MGMT\$CSA_FAILED
		• MGMT\$CSA_HOST_COOKIES
		• MGMT\$CSA_HOST_CPUS
		• MGMT\$CSA_HOST_CUSTOM
		• MGMT\$CSA_HOST_IOCARDS
		• MGMT\$CSA_HOST_NICS
		• MGMT\$CSA_HOST_OS_COMPONENTS
		• MGMT\$CSA_HOST_OS_FILESYSEMS
		• MGMT\$CSA_HOST_OS_PROPERTIES
		• MGMT\$CSA_HOST_RULES
		• MGMT\$CSA_HOST_SW
		• MGMT\$ECM_CONFIG_HISTORY



Management Pack	Availability	Included Features
Oracle Diagnostics Pack	Extra cost pack: EE , EE-ES	Features:
		Oracle Diagnostics Pack includes the following features:
	Included pack: DBCS EE, DBCS EE-HP, DBCS EE-EP, ExaCS	
		 set to one of three values: DIAGNOSTIC+TUNING: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is enabled in the database server. DIAGNOSTIC: Only Oracle Diagnostics Pack functionality is enabled in the server. NONE: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server. Any and all methods of accessing Oracle Diagnostics Pack functionality, whether through Enterprise Manager Console, Desktop Widgets, command-line APIs, or direct access to the underlying data, requires an Oracle Diagnostics Pack license. Licensed Links: To determine which links in Enterprise Manager are part of Oracle Diagnostics Pack, click the Setup link on the top right-hand part of the Enterprise Manager Home page.
		 When you click the Setup link, the navigation bar contains the Management Pack Access link. Click this link. This will take you to the Management Pack Access page, which allows you to grant and remove access from all the management packs.

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

Management Pack	Availability	Included Features
		 For Enterprise Manager Database Control, click the Remove Access radio button for the Diagnostics Pack and click Apply. For Enterprise Manager Cloud Control, click the appropriate check box for the Diagnostics Pack and click Apply. This procedure disables all the links and tabs associated with Oracle Diagnostics Pack in Enterprise Manager. All the disabled links and tabs are part of Oracle Diagnostics Pack and therefore require a pack license.
		Licensed Command-Line APIs:
		Oracle Diagnostics Pack features can also be accessed by way of database server APIs and command-line interfaces:
		 The DBMS_ADDM, DBMS_PERF, DBMS_UMF, and DBMS_WORKLOAD_REPOSITORY packages are part of this pack. The DBMS_ADVISOR package is part of this pack if you specify ADDM as the value of the advisor_name parameter, or if you specify for the value of the task_name parameter any value starting with the ADDM prefix.
		 The DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT function is part of this pack.
		 The V\$ACTIVE_SESSION_HISTORY dynamic performance view and its underlying table, X\$ASH, are part of this pack.
		 The DBA_STREAMS_TP_PATH_BOTTLENECK view is part of this pack.
		 All views beginning with DBA_ADDM_ are part of this pack. Some data in DBA_STREAMS_TP_COMPONENT_STAT requires Oracle Diagnostics Pack. The following filter clause to any query on DBA_STREAMS_TP_COMPONENT_STAT shows Diagnostics- Pack-dependent data:
		where STATISTIC_UNIT = 'PERCENT'
		For example, the following query shows Diagnostics-Pack- dependent data only:
		<pre>SELECT * FROM DBA_STREAMS_TP_COMPONENT_STAT where STATISTIC_UNIT = 'PERCENT';</pre>
		 All data dictionary views beginning with the prefix DBA_HIST_ are part of this pack, along with their underlying tables. The only exception are the views: DBA_HIST_SNAPSHOT, DBA_HIST_DATABASE_INSTANCE, DBA_HIST_SNAP_ERROR, DBA_HIST_SEG_STAT, DBA_HIST_SEG_STAT_OBJ, and DBA_HIST_UNDOSTAT. They can be used without the Oracle Diagnostics Pack license.
		 All data dictionary views with the prefix DBA_ADVISOR_ are part of this pack if queries to these views return rows with the value ADDM in the ADVISOR_NAME column or a value of ADDM* in the TASK_NAME column or the corresponding TASK_ID.
		• The following reports found in the /rdbms/admin/ directory of the Oracle home directory are part of this pack: awrrpt.sql, awrrpti.sql, awrgrpti.sql, awrgrpti.sql, awrgdrpt.sql, awrgdrpt.sql, awrgdrpt.sql, addmrpt.sql, ashrpt.sql,



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

Management Pack	Availability	Included Features
Oracle Tuning Pack	Extra cost pack: EE, EE-ES Included pack: DBCS EE, DBCS EE-HP, DBCS EE-EP, ExaCS	Features:
		Oracle Tuning Pack includes the following features:
		SQL Access Advisor
		SQL Tuning Advisor
		Oracle Database In-Memory Advisor
		Automatic SQL Tuning
		SQL Profiles
		Real-time SQL and PL/SQL Monitoring
		Real-time Database Operations Monitoring
		 Reorganize objects A new initialization parameter, CONTROL_MANAGEMENT_PACK_ACCESS,
		is introduced to control access to Oracle Diagnostics Pack and Oracle Tuning Pack in the database server. This parameter can be set to one of three values:
		DIAGNOSTIC+TUNING: Oracle Diagnostics Pack and Oracle
		 Tuning Pack functionally is enabled in the database server. DIAGNOSTIC: Only Oracle Diagnostics Pack functionality is anabled in the convertence.
		 enabled in the server. NONE: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server.
		Any and all methods of accessing Oracle Tuning Pack functionality
		whether through Enterprise Manager Console, Desktop Widgets, command-line APIs, or direct access to the underlying data, requires an Oracle Tuning Pack license.
		Prerequisites:
		Oracle Tuning Pack requires Oracle Diagnostics Pack.
		Licensed Links:
		To determine which links in Enterprise Manager are part of Oracle Tuning Pack, click the Setup link on the top right-hand part of the Enterprise Manager Home page.
		• When you click the Setup link, the navigation bar contains the Management Pack Access link. Click this link.
		 This will take you to the Management Pack Access page, whic allows you to grant and remove access from all the management packs.
		 For Enterprise Manager Database Control, click the Remove Access radio button for the Tuning Pack and click Apply.
		 For Enterprise Manager Cloud Control, click the appropriate check box for the Tuning Pack and click Apply.
		This procedure disables all the links and tabs associated with Oracle Tuning Pack in Enterprise Manager. All the disabled links and tabs are part of Oracle Tuning Pack and therefore require a pack license.
		Licensed Command Line APIs:
		Oracle Tuning Pack features can also be accessed by way of database server APIs and command-line interfaces:
		• DBMS_ADVISOR, when the value of the advisor_name parameter is either SQL Tuning Advisor or SQL Access Advisor.

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



Management Pack	Availability	Included Features
		• DBMS_AUTO_SQLTUNE
		• DBMS_PERF
		• DBMS_SQL_MONITOR
		DBMS_SQLTUNE (See Note)
		• V\$SQL_MONITOR
		• V\$SQL_PLAN_MONITOR
		• The following report found in the /rdbms/admin/ directory of the Oracle home directory is part of this pack: sqltrpt.sql.
		Note : If you are licensed for Oracle Database Enterprise Edition on- premises, 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.sq1, 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/CSP/main/article?cmd=show&type=NOT&id=1317265.1

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



Note:

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

1.7 Special License Rights

Table 1-16	Special License 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.
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)	When used with non-Oracle Database files, all Oracle ACFS features are free. When used with Oracle Database files, all Oracle ACFS features are free, with
	 the following exceptions: ACFS Auditing - Not available (use Oracle Audit Vault*) ACFS Compression - Not available (use Oracle Advanced Compression*) ACFS Encryption - Not available (use Oracle Transparent Data Encryption, part of the Oracle Advanced Security option*) ACFS Security - Not available (use Oracle Database Vault*) * Requires appropriate full-use licenses to these products or components. Oracle will provide support services for Oracle ACFS only if the server it operates on also operates an Oracle product, which may include Oracle Linux or Oracle Solaris, which is under an Oracle support contract.
Oracle Automatic Storage Management (Oracle ASM)	Oracle ASM is free to use with all Oracle databases and Oracle ACFS file systems.
Oracle Clusterware	Oracle Clusterware provides cluster membership and high availability monitoring and failover. Oracle Clusterware may be used to protect any application (restarting or failing over the application in the event of a failure) on any server, free of charge. Oracle will provide support for Clusterware only if the server is running an Oracle product, which may include Oracle Linux or Oracle Solaris, that is also under Oracle support.
Oracle Connection Manager	Oracle Connection Manager can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Connection Manager.
Oracle Data Guard broker	You can install the broker command line interface DGMGRL and run the observer software on computer systems that are separate from the Oracle Data Guard primary and standby systems. It is not necessary to obtain a separate license for a system hosting the observer.
Oracle Database Backup Cloud Service	 Oracle Database Backup Cloud Service includes use of the following two features from the Oracle Advanced Security option or the Oracle Advanced Compression option at no additional cost: RMAN backup encryption All RMAN backup compression algorithms To use additional features of the Oracle Advanced Security option or the Oracle Advanced Advanced Compression option, you must license those options separately. In addition, the Oracle Advanced Security option must be separately licensed when performing RMAN encrypted backups directly to disk.
Oracle Database Gateway for ODBC	Oracle Database Gateway for ODBC can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Gateway for ODBC.
Oracle Database Provider for DRDA	Oracle Database Provider for DRDA can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Database Provider for DRDA.

Feature / Option	Licensing Information
Oracle Database Vault	When Oracle Database Vault is configured and enabled, it configures and enables Oracle Label Security. Oracle Label Security is solely restricted for use by the Oracle Database Vault software. If you want to create Oracle Label Security policies, then you must purchase a full-use license for Oracle Label Security.
Oracle Real Application Clusters (RAC) and Real Application Clusters One Node	The following licensing information applies when using Oracle Real Application Clusters or Real Application Clusters One Node in a clustered server environment with Oracle Database Standard Edition 2:
	 You must use Oracle Clusterware. Third-party clusterware management solutions are not supported.
	 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. 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:
	 Customers who want to manually script maintenance of a standby database can create a second copy of their archive logs outside of Oracle ASM on a local file system only, designated by the LOG_ARCHIVE_DEST_n parameter.
	 RMAN backups of files can reside on either a local or network mounted file system.
	 No other cluster software can be installed on the system, including OCFS, OCFS2, third-party clusterware, third-party cluster volume managers, and third-party cluster file systems.



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:
	 Database Replay: Only the Workload Capture feature is supported, and the captured workload may only be replayed only on Oracle Database 11g. This feature can be used only to facilitate upgrades from Oracle 9<i>i</i> Database Release 2 to Oracle Database 11g or higher. The functionality available on Oracle Database 10g Release 2 is as follows:
	 Database Replay: Only the Workload Capture feature is supported, and the captured workload may be replayed only on Oracle Database 11g. This feature can be used only to facilitate upgrades from Oracle Database 10g Release 2 to Oracle Database 11g.
	• SQL Performance Analyzer : Only the Remote SQL Test Execute and SQL Capture into SQL Tuning Set features are supported. These features can be used only to facilitate upgrades from Oracle9 <i>i</i> Database Release 2 and Oracle Database 10g Release 1 to Oracle Database 10g Release 2 or higher. When upgrading to Oracle Database 10g Release 2 from earlier releases (Oracle 9 <i>i</i> Database or Oracle Database 10g Release 1), Oracle Database 11g is needed to remotely execute SQL on the target database (that is, Oracle Database 10g Release 2). Oracle Real Application Testing licensing is required for both systems, Oracle Database 10g Release 2 and Oracle Database 11g.
Oracle Secure Backup 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
	 RMAN backup compression leveraging LOW, MEDIUM, BASIC or HIGH algorithms
	The Oracle Secure Backup special-use licenses apply to RMAN backup encryption, which is a component of the Oracle Advanced Security option, and RMAN backup compression levels, which are components of the Oracle Advanced Compression option. To use additional features of the Oracle Advanced Security option or the Oracle Advanced Compression option, you must license those options separately. In addition, the Oracle Advanced Security option must be licensed when performing RMAN encrypted backups directly to disk whether or not Oracle Secure Backup is the media manager.
Oracle Secure Backup Express	Oracle Secure Backup Express is bundled with the Oracle Database. Support for Oracle Secure Backup Express is provided exclusively through a free Oracle Discussion Forum monitored by Oracle employees as well as community experts.
	Oracle Secure Backup Express can back up an Oracle database as well as Oracle home files and other file system data requiring tape protection.
	For more information, refer to Oracle Secure Backup Licensing Information.

Feature / Option	Licensing Information
Oracle Spatial and Graph	 These Oracle Spatial and Graph components can be installed and used on a server different from the server where the Oracle Database is installed and used without a separate license: Spatial Geocoder Spatial Routing engine Spatial Web Services Property Graph client
	 In-memory analyst (PGX) Spatial Visualization component For more information, see Oracle Spatial and Graph Developer's Guide and
Oracle Wallet	 Oracle Spatial and Graph Property Graph Developer's Guide. An Oracle Wallet is a PKCS#12 container used to store authentication and encryption keys. The Oracle database secure external password store feature stores passwords in an Oracle Wallet for password-based authentication to the Oracle database. The Oracle Wallet may also be used to store credentials for PKI authentication to the Oracle Database, configuration of network encryption (SSL/TLS), and Oracle Advanced Security transparent data encryption (TDE) master encryption keys. Strong authentication services (Kerberos, PKI, and RADIUS) and network encryption (native network encryption and SSL/TLS) ar no longer part of Oracle Advanced Security and are available in all licensed editions of all supported releases of the Oracle database.
Shard Director	The shard directors can be installed and used on a server different from the server where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the server running the shard directors.
XStream	XStream provides application programming interfaces (APIs) that enable clien applications to receive real-time data changes from an Oracle database (using XStream Out APIs) and to send real-time data changes to an Oracle database (using XStream In APIs). These data changes can be shared between Oracle databases and other systems, such as filesystems and non-Oracle databases XStream is licensed via the Oracle GoldenGate product. You must purchase a license for this product before using the XStream APIs. Please contact your Oracle sales representative for additional information.



1.8 Restricted Use Licenses

Feature / Option	Licensing Information
Oracle Advanced Security	Any Oracle Advanced Security licenses purchased on or before January 31, 2004, have restricted use of the Oracle Internet Directory (OID) component of Oracle Directory Services Plus to support Enterprise User Security.
	Oracle Advanced Security includes a restricted use license for the following Oracle Enterprise Manager features:
	 Application Data Models (previously called Data Discovery and Modeling) Sensitive Column Types and Sensitive Data Discovery Application Accelerators
	If you want to use the Oracle Enterprise Manager features listed above not solely for the purposes of Oracle Advanced Security, then you must purchase a full-use license for Oracle Data Masking and Subsetting Pack.
Oracle Application Server Containers for J2EE	A restricted use license for Oracle Application Server Containers for J2EE (OC4J) is included with all editions (except for Oracle Database Express Edition). This embedded version is provided solely to support Oracle Enterprise Manager (Database and Cloud Control), Advanced Queuing Servlet, Ultra Search, Application Express, and Warehouse Builder, and may not be used or deployed for other purposes
Oracle Applications Unlimited	An Oracle Database Cloud Service Enterprise Edition (DBCS-EE) instance being used to support an Oracle Cloud deployment of an Oracle Applications Unlimited application has restricted use of the following options: Oracle On-Line Analytical Processing (OLAP), Oracle Partitioning, and Oracle Spatial and Graph. These options may be used only to support Oracle Applications Unlimited and may not be used or deployed for any other purpose.
Oracle Big Data SQL	Oracle Big Data SQL includes a Query Server that is used to query data sources including HDFS, Kafka, and NoSQL stores. Oracle Big Data SQL includes a restricted use license of Oracle Database for storing metadata (i.e. external tables and views) maintained by the Query Server. No other objects may be created in this Oracle Database.
Oracle Database Mobile Server	Oracle Database Mobile Server is a powerful tool for controlling networks of mobile or embedded devices from a centralized management console. It provides a secure, scalable method for connecting applications running locally on mobile or embedded devices to an Oracle enterprise backend. The synchronization system is robust and fault tolerant. It is able to successfully synchronize over unreliable or intermittently available networks. Oracle Database Mobile Server provides management for applications, users, and devices. It runs on a variety of application server platforms, including Oracle WebLogic, Oracle Glassfish, and Apache TomEE.
	On the client device side, it is designed to work with Oracle Berkeley DB as a data store, providing efficient, reliable, and secure data management running locally on mobile and embedded devices. It is also compatible with SQLite, a widely used open source data store. Database Mobile Server supports many popular device platforms including Oracle Java, Linux, Windows (laptop as well as mobile/CE), and Android.

Table 1-17 Restricted Use Licenses

Feature / Option	Licensing Information
Oracle Database Vault	 Oracle Database Vault includes a restricted use license for the following Oracle Enterprise Management features: Application Data Modeling (previously called Data Discovery and Modeling) Application Data Modeling accelerator for select versions of Oracle E-Business Suite
	Application Data Modeling accelerator for select versions of Oracle Fusion Applications
Oracle HTTP Server	A restricted use license for Oracle HTTP Server is included with all editions (except for Oracle Database Express Edition) when the HTTP Server is running on the same server as the database. Running Oracle HTTP server on a different server requires that other server be licensed to use the HTTP server, either through an Oracle Database license or an Oracle Application Server license
Oracle Internet Directory	A restricted use license for Oracle Identity Management Directory Services Plus component Oracle Internet Directory (OID) is included with all editions (except for Oracle Database Express Edition) if users use the Directory Naming feature to configure Oracle Net Services. OID may not be used or deployed for other uses.
Oracle Label Security	 Oracle Label Security includes a restricted use license for the following Oracle Enterprise Manager features: Application Data Models (previously called Data Discovery and Modeling) Sensitive Column Types and Sensitive Data Discovery Application Accelerators If you want to use the Oracle Enterprise Manager features listed above not solely for the purposes of Oracle Label Security, then you must purchase a full-use license for Oracle Data Masking and Subsetting Pack.
Oracle Multitenant	A restricted use license is included with all Oracle Database offerings that permits you to use the container database architecture in single-tenant mode without the Oracle Multitenant option license. Single-tenant mode is defined as one user-created pluggable database, and, optionally, one user-created application root, and one user-created proxy pluggable database.
Oracle Programmer	 Oracle Programmer provides application programmers with a programmatic interface to any edition of Oracle Database. However, in order to user Oracle Programmer, you must purchase a separate Oracle Programmer license. Oracle Programmer includes the following products: Embedded SQL-style interfaces: Pro*C/C++, Pro*COBOL, Pro*Fortran, SQL*Module for Ada, SQLJ Utilities to generate host-language bindings from database schemas: Object Type Translator and JPub
Oracle Real Application Testing	Restricted use licenses of Load Testing Accelerator for Oracle Database, Oracle Load Testing, and Oracle Load Testing Controller are included with Oracle Real Application Testing for use for Oracle Database testing and may not be used for application testing.
Oracle Secure Backup	Oracle Secure Backup is a centralized tape backup management solution that is suited for distributed environments consisting of multiple servers with advanced data protection requirements such as encryption, rotation of tapes between multiple locations, and protection of NAS devices. A restricted use license for Oracle Secure Backup is included with all Oracle Database editions. Refer to the Oracle Secure Backup Licensing Information for additional information.

Table 1-17 (Cont.) Restricted Use Licenses



Feature / Option	Licensing Information	
Oracle Secure Backup Cloud Module	The Oracle Secure Backup Cloud Module provides Oracle Database backup to cloud storage using Recovery Manager (RMAN). A restricted use license for the Oracle Secure Backup Cloud Module is included with all Oracle Database editions. The Oracle Secure Backup Cloud Module can be used as a complement or replacement for Oracle Secure Backup, Oracle Secure Backup Express, or third-party media-management products.	
Oracle Secure Backup Express	Oracle Secure Backup Express is a centralized tape backup management solution that provides data protection for single-server Oracle Database environments. A restricted use license for Oracle Secure Backup Express is included with all Oracle Database editions. Oracle Secure Backup Express is limited to a single host with one direct-attached tape drive and has some restrictions on advanced feature usage. Refer to the <i>Oracle Secure Backup</i> <i>Licensing Information</i> for additional information.	
Oracle Sharding	Oracle Sharding includes a restricted use license for Global Data Services.	
	If you want to use Global Data Services not solely for the purposes of Oracle Sharding, then you must be licensed for the Oracle Active Data Guard option.	

Table 1-17 (Cont.) Restricted Use Licenses

1.9 Third-Party Notices and/or Licenses

1.9.1 Commercial Software

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

Provider	Component(s)	Licensing Information
DataDirect	DataDirect Technology	The DataDirect component provided with this Oracle Program is distributed only for use with Oracle Program.
Frederico Caldiera	CKEditor 4.5.11	© 2003 - 2010 CKSource - Frederico Knabben. All rights reserved.
Knabben (FredCK.com)		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
MapInfo Corp.	Projections Code 1.0	Portions of this software Copyright 1992-2000, MapInfo Corporation, ALL RIGHTS RESERVED.
Microsoft	Microsoft Visual Studio 2013 Redistributables	Must include Oracle copyright notice in Oracle applications containing the Distributable Code. Oracle must not use Microsoft's trademarks in Oracle program names or in a way that suggests Oracle programs come from or are endorsed by Microsoft.
Microsoft	Microsoft Visual Studio 2015 Redistributables	Must include Oracle copyright notice in Oracle applications containing the Distributable Code. Oracle must not use Microsoft's trademarks in Oracle program names or in a way that suggests Oracle programs come from or are endorsed by Microsoft.
RSA	Micro Edition Suite	This product includes code licensed from RSA Data Security.
	(MES)	See Figure 1-1.

Table 1-18 Commercial Software



Provider	Component(s)	Licensing Information
Sibental, Inc.	AnyChart 6.0	AnyChart
	AnyGantt 4.3	Flash chart support in Oracle Application Express is based on the
	AnyMap 6.0	Anychart Flash Chart Component. Anychart is a flexible Macromedia Flash-based solution that enables developers to create animated, compact, interactive flash charts. Flash charts are rendered by a browser and require Flash player 8 or later. Flash charts used in interactive reports require Flash Player 9 or later. For more information about Anychart, go to:
		http://www.anychart.com
		Any attempt to unbundle the AnyChart Flash Chart Component from an Oracle product, or to use the AnyChart Flash Chart Component outside of the Oracle product will be in violation of this license and will result in the immediate termination of this license.

Table 1-18 (Cont.) Commercial Software

Figure 1-1 RSA Secure Logo



1.9.2 Open Source or Other Separately Licensed Software

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



Provider	Component(s)	Licensing Information
ANTLR	Antlr 3.1.3, 3.2	ANTLR 3 License
		[The BSD License]
		Copyright (c) 2003-2007, Terence Parr
		All rights reserved.
		Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
		 Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
		 Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Adam Shaw	FullCalendar 2.9.1	Copyright (c) 2013 Adam Shaw Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
		The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

 Table 1-19
 Open Source or Other Separately Licensed Software

Provider	Component(s)	Licensing Information
Provider Alexander Potochkin	Component(s) JXLayer 4.0	 Licensing Information Copyright (c) 2006-2009, Alexander Potochkin All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither the name of the JXLayer project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
		BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Alexis Sellier	Less.js 1.7	This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	Apache Batik SVG Toolkit 1.9	For a copy of the license, see Apache Batik SVG Toolkit 1.9 License.
Apache	Apache Batik SVG Toolkit 1.10	For a copy of the license, see Apache Batik SVG Toolkit 1.10 License.
Apache	Apache Commons Logging 1.0.4, 1.1	Copyright 2003-2007 The Apache Software Foundation This product includes software developed by The Apache Software Foundation (http://www.apache.org/). This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.



Provider	Component(s)	Licensing Information
Apache	Apache Commons Logging 1.2	Notice:
		// NOTICE file corresponding to the section 4d of The // Apache License, Version 2.0, in this case for // Commons Logging
		//
		Commons Logging
		Copyright 2003-2014 The Apache Software Foundation
		This product includes/uses software(s) developed by 'an unknown organization'
		Unnamed - avalon-framework:avalon-framework:jar:4.1.3
		Unnamed - log4j:log4j:jar:1.2.12
		Unnamed - logkit:logkit:jar:1.0.1
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	Apache Commons Math 3.6.1	For a copy of the license, see Apache Commons Math 3.6.1 License.
Apache	Apache Geronimo JMS 1.1 Specification	This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	Apache POI 3.10.1	Apache POI
		Copyright 2009 The Apache Software Foundation
		This product includes software developed by
		The Apache Software Foundation (http://www.apache.org/).
		This product contains the DOM4J library (http://www.dom4j.org).
		Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved.
		This product contains parts that were originally based on software from BEA.
		Copyright (c) 2000-2003, BEA Systems, <http: www.bea.com=""></http:> .
		This product contains W3C XML Schema documents. Copyright 2001-2003 (c)
		World Wide Web Consortium (Massachusetts Institute of Technology, European
		Research Consortium for Informatics and Mathematics, Keio University)
		This product contains the Piccolo XML Parser for Java
		(http://piccolo.sourceforge.net/). Copyright 2002 Yuval Oren.
		This product contains the chunks_parse_cmds.tbl file from the vsdump program.
		Copyright (C) 2006-2007 Valek Filippov (frob@df.ru)
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	Apache Tomcat 8.5.32	For a copy of the license, see Apache Tomcat 8.5.32 License.

Table 1-19	(Cont.) O	pen Source or	Other Sep	parately	Licensed Software



Provider	Component(s)	Licensing Information
Apache	Commons CLI 1.2	Apache Commons CLI
		Copyright 2001-2009 The Apache Software Foundation
		This product includes software developed by The Apache Software Foundation (http://www.apache.org/).
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	Commons	Apache Commons Collections
	Collections 3.2.2	Copyright 2001-2008 The Apache Software Foundation
		This product includes software developed by
		The Apache Software Foundation (http://www.apache.org/).
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	Commons Configuration 2.2	This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache		Apache Commons FileUpload
	1.3.2	Copyright 2002-2008 The Apache Software Foundation
		This product includes software developed by
		The Apache Software Foundation (http://www.apache.org/).
		You may not use the identified files except in compliance with the Apache License, Version 2.0 (the "License.")
		You may obtain a copy of the License at http://www.apache.org/ licenses/LICENSE-2.0. A copy of the license is also reproduced below.
		Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
		See the License for the specific language governing permissions and limitations under the License.
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	•	Apache Commons FileUpload
	1.3.3	Copyright 2002-2017 The Apache Software Foundation
		This product includes software developed at
		The Apache Software Foundation (http://www.apache.org/).
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	Commons HttpClient 4.2.6	This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	Commons IO 2.5	Apache Commons IO
		Copyright 2002-2016 The Apache Software Foundation
		This product includes software developed by The Apache Software Foundation (http://www.apache.org/).
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.



Provider	Component(s)	Licensing Information
Apache	Commons Lang 3.6	Apache Commons Lang
		Copyright 2001-2011 The Apache Software Foundation
		This product includes software developed by The Apache Software Foundation (http://www.apache.org/).
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	Commons Math 3.6.1	Copyright 2001-2016 The Apache Software Foundation
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	Groovy 2.4.11	Groovy Language
		Copyright 2003-2017 The respective authors and developers
		Developers and Contributors are listed in the project POM file and Gradle build file
		This product includes software developed by
		The Groovy community (http://groovy.codehaus.org/).
		== NOTICE file corresponding to the section 4 d of ==
		<pre>== the Apache License, Version 2.0, == == in this case for the Groovy Language distribution. ==</pre>
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	HttpComponents Core 4.4.3, 4.4.4	Apache HttpCore
		Copyright 2005-2014 The Apache Software Foundation
		This product includes software developed at
		The Apache Software Foundation (http://www.apache.org/).
		This project contains annotations derived from JCIP- ANNOTATIONS
		Copyright (c) 2005 Brian Goetz and Time Peierls. See http:// www.jcip.net
		This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
Apache	HttpComponents	Apache HTTPComponents
	HttpClient 4.5.1	Apache HTTPClient
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The Rhino jar also includes four classes:

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

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

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

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

Which come from:

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

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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
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- 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

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

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=== RequireJS i18n 2.0.2 ===

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=== jsTree 1.0-rc3 ===

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=== Select2.js ===

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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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=== jQuery JavaScript Library v2.1.3 ===

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=== RequireJS text 2.0.12 ===

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

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=== Knockout.js 3.4.0 ===

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

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

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=== Normalize.css ===

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=== jsTree 1.0-rc3 ===

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

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

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=== 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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=== Select2.js ===

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

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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
```

* http://hammerjs.github.io/

*

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lib/gssapi/mechglue/g_userok.c lib/gssapi/mechglue/g_utils.c lib/gssapi/mechglue/g_verify.c lib/gssapi/mechglue/gssd_pname_to_uid.c lib/gssapi/mechglue/mglueP.h lib/gssapi/mechglue/oid_ops.c lib/gssapi/spnego/gssapiP_spnego.h lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h kadmin/server/ipropd_svc.c lib/kdb/iprop.x lib/kdb/kdb_convert.c lib/kdb/kdb_log.c lib/kdb/kdb_log.h lib/krb5/error_tables/kdb5_err.et slave/kpropd_rpc.c slave/kproplog.c

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Mersenne Twister

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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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Any feedback is very welcome.

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

ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

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

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

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

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

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

1999-05-03 lpd Original version.

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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.....
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
# Mark Hammond
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
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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.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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

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Sockets

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

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Floating point exception control

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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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SipHash24

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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

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expat

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Jean-loup Gailly Mark Adler jloup@gzip.org madler@alumni.caltech.edu

cfuhash

The implementation of the hash table used by the :mod:'tracemalloc' is based on the cfuhash project::

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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
# Mark Hammond
# Some fixes to try to have correct line number on almost all nodes
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.....
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Modules/_localemodule.c
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.....
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2000-05-05



Index

Symbols

.NET Stored Procedures, 1-5

Α

Active Data Guard See Oracle Active Data Guard Active Directory, 1-13 Advanced Analytics See Oracle Advanced Analytics Advanced Compression See Oracle Advanced Compression advanced index compression, 1-15 Advanced Security See Oracle Advanced Security Application Continuity, 1-5 **Application Express** See Oracle Application Express ASM See Oracle Automatic Storage Managment (Oracle ASM) attribute clustering, 1-12 automatic block repair, 1-6, 1-17 automatic correction of non-logged blocks, 1-6 automatic data optimization, 1-15 Automatic In-Memory Column Store, 1-12 Automatic Workload Management, 1-13

В

backup and recovery, 1-6, 1-7 backup, fast incremental, 1-6, 1-17 basic table compression, 1-15 bitmap plan conversion, 1-16 bitmapped index, 1-16 block compression, 1-6 block repair, 1-6 block-level media recovery, 1-6

С

CDB Fleet Management, 1-4 Centrally Managed Users, 1-13 client side query cache, 1-11 Cloud Management Pack See Oracle Cloud Management Pack Connection Manager See Oracle Connection Manager

D

Data Guard See Oracle Data Guard Data Guard Far Sync, 1-5, 1-47 Data Masking and Subsetting Pack See Oracle Data Masking and Subsetting Pack Data Pump, 1-16 Database Consolidation Workbench, 1-21 database gateways, 1-7 database options, 1-16 checking for usage, 1-46 Oracle Active Data Guard, 1-6 Oracle Advanced Analytics, 1-15 Oracle Advanced Compression, 1-15 Oracle Advanced Security, 1-13, 1-47 Oracle Database In-Memory, 1-16 Oracle Database Vault, 1-13, 1-16, 1-47, 1-52 Oracle Label Security, 1-13 Oracle Multitenant, 1-4 **Oracle On-Line Analytical Processing** (OLAP), 1-15 Oracle Partitioning, 1-14, 1-15 Oracle RAC One Node, 1-5 **Oracle Real Application Clusters (Oracle** RAC), 1-1, 1-13, 1-47 Oracle Real Application Testing, 1-8, 1-47 Oracle Spatial and Graph, 1-14 Oracle TimesTen Application-Tier Database Cache, 1-11 Database Replay, 1-21, 1-47 Database Resource Manager, 1-8 Database Smart Flash Cache, 1-11 Database Vault See Oracle Database Vault DBCS EE See Oracle Database Cloud Service Enterprise Edition DBCS EE-EP

See Oracle Database Cloud Service Enterprise Edition - Extreme Performance DBCS EE-HP See Oracle Database Cloud Service Enterprise Edition - High Performance DBCS SE See Oracle Database Cloud Service Standard Edition deferred segment creation, 1-15 Diagnostics Pack See Oracle Diagnostics Pack duplexed backup sets, 1-6

E

editions, 1-1 EE See Oracle Database Enterprise Edition EE-ES See Oracle Database Enterprise Edition on **Engineered Systems** Enterprise Edition See Oracle Database Enterprise Edition Enterprise Package See Oracle Database Cloud Service Enterprise Edition Enterprise User Security, 1-13, 1-47, 1-52 ExaCS See Oracle Database Exadata Cloud Service Exadata See Oracle Exadata **Extreme Performance Package** See Oracle Database Cloud Service Enterprise Edition - Extreme Performance

F

Fail Safe See Oracle Fail Safe far sync, 1-5, 1-47 fast incremental backup, 1-6, 1-17 fast-start fault recovery, 1-7 Fault Tolerant In-Memory Column Store, 1-12 feature availability, 1-3 fine-grained auditing, 1-14 flash cache, 1-11 flashback database, 1-7 table, 1-7 transaction, 1-7 transaction query, 1-7 Flashback Data Archive, 1-7

G

Gateway for ODBC

See Oracle Database Gateway for ODBC Global Data Services, 1-7, 1-47, 1-52

Н

heat map, 1-15 High Performance Package See Oracle Database Cloud Service Enterprise Edition - High Performance HTTP Server See Oracle HTTP Server hybrid columnar compression, 1-15 row-level locking, 1-15

I

I/O Resource Management, 1-8 In-Memory See Oracle Database In-Memory In-Memory Aggregation, 1-12 In-Memory Column Cache on Storage Servers, 1 - 12In-Memory Column Store, 1-12 fault tolerant, 1-12 In-Memory Column Store support for External Tables, 1-12 In-memory Parallel Execution, 1-16 index rebuild, 1-6 Infiniband, 1-11 infrastructure repository databases, 1-47 Instance Caging, 1-8 Internet Directory See Oracle Internet Directory (OID)

Κ

key compression See prefix compression Keystore for Each Pluggable Database, 1-14

L

Label Security See Oracle Label Security Lifecycle Management Pack See Oracle Database Lifecycle Management Pack for Oracle Database Load Testing Accelerator, 1-53 lost write protection, 1-6

Μ

management packs, 1-24 checking for usage, 1-46 Oracle Cloud Management Pack, 1-8 management packs (continued) Oracle Data Masking and Subsetting Pack, 1-8 Oracle Database Lifecycle Management Pack for Oracle Database, 1-8 Oracle Diagnostics Pack, 1-8 Oracle Tuning Pack, 1-8, 1-42 materialized view query rewrite. 1-16 media recovery, 1-6 MemOptimized Row Store, 1-12 messaging gateway, 1-7 Microsoft Active Directory, 1-13 Microsoft Distributed Transaction Coordinator, 1-5 Multitenant See Oracle Multitenant

Ν

Native .NET Data Provider, 1-5

Ο

OC4J See Oracle Application Server Containers for J2EE (OC4J) offerings, 1-1 OID See Oracle Internet Directory (OID) OLAP See Oracle On-Line Analytical Processing (OLAP) online datafile move, 1-7 online index rebuild, 1-6 online table organization, 1-6 online table redefinition, 1-6 options See database options options packs usage statistics.sgl, 1-46 Oracle Active Data Guard, 1-6 Oracle Advanced Analytics, 1-15 Oracle Advanced Compression, 1-15 Oracle Advanced Security, 1-13, 1-47, 1-52 Oracle Application Express, 1-52 Oracle Application Server Containers for J2EE (OC4J), 1-52 Oracle Applications Unlimited, 1-52 Oracle Automatic Storage Management (Oracle ASM), 1-47, 1-49 Oracle Automatic Storage Management Cluster File System (Oracle ACFS), 1-47 Oracle Big Data SQL, 1-52 Oracle Cloud Management Pack, 1-8 Oracle Clusterware, 1-47 Oracle Connection Manager, 1-11, 1-47 Oracle Data Guard, 1-5

Oracle Data Masking and Subsetting Pack, 1-8 Oracle Database Backup Cloud Service, 1-47 Oracle Database Cloud Service Enterprise Edition. 1-1 feature availability, 1-3 options, 1-16 Oracle Database Cloud Service Enterprise Edition - Extreme Performance, 1-1 feature availability, 1-3 management packs, 1-24 options, 1-16 **Oracle Database Cloud Service Enterprise** Edition - High Performance, 1-1 feature availability, 1-3 management packs, 1-24 options, 1-16 Oracle Database Cloud Service Standard Edition, 1-1 feature availability. 1-3 options, 1-16 Oracle Database Enterprise Edition, 1-1 feature availability, 1-3 management packs, 1-24 options, 1-16 Oracle Database Enterprise Edition on Engineered Systems, 1-1 feature availability, 1-3 options, 1-16 Oracle Database Enterprise Edition on Oracle **Database** Appliance feature availability, 1-3 Oracle Database Enterprise Edition on Oracle **Engineered Systems** management packs, 1-24 Oracle Database Exadata Cloud at Customer, 1-1 Oracle Database Exadata Cloud Service, 1-1 feature availability, 1-3 management packs, 1-24 options, 1-16 Oracle Database Gateway for ODBC, 1-47 Oracle Database In-Memory, 1-16 Oracle Database Lifecycle Management Pack for Oracle Database, 1-8 Oracle Database Mobile Server, 1-52 Oracle Database Personal Edition, 1-1 feature availability. 1-1 options, 1-16 Oracle Database Provider for DRDA, 1-47 Oracle Database Real Application Security, 1-14 Oracle Database Standard Edition 2, 1-1 feature availability. 1-3 options, 1-16 special-use licensing with Oracle Real Application Clusters, 1-47

Oracle Database Vault, 1-13, 1-16, 1-47, 1-52 Oracle Developer Tools for Visual Studio .NET, 1-4 Oracle Diagnostics Pack, 1-8 Oracle Exadata, 1-11 Oracle Exadata Flash Cache Compression, 1-15 Oracle Fail Safe, 1-5 Oracle GoldenGate. 1-47 Oracle HTTP Server, 1-52 Oracle Internet Directory (OID), 1-47, 1-52 Oracle Label Security, 1-13, 1-47, 1-52 Oracle Load Testing, 1-53 Oracle Load Testing Controller, 1-53 Oracle Multitenant, 1-4, 1-52 Oracle On-Line Analytical Processing (OLAP), 1-15 Oracle Partitioning, 1-14, 1-15 Oracle Programmer, 1-4, 1-52 Oracle R Enterprise. 1-15 Oracle RAC See Oracle Real Application Clusters (Oracle RAC) Oracle RAC One Node, 1-5 Oracle Real Application Clusters (Oracle RAC), 1-1, 1-13, 1-47 Oracle Real Application Testing, 1-8, 1-47, 1-52 Oracle Secure Backup, 1-47, 1-52 Oracle Secure Backup Cloud Module, 1-47, 1-52 Oracle Secure Backup Express, 1-47, 1-52 Oracle Sharding, 1-5, 1-52 Oracle Spatial and Graph, 1-14 Oracle Streams, 1-7 Oracle TimesTen Application-Tier Database Cache. 1-11 Oracle Tuning Pack, 1-8, 1-42 Oracle Wallet. 1-47 Oracle Warehouse Builder, 1-52

Ρ

packages, 1-1 parallel backup and recovery, 1-6 capture and apply, 1-16 index build/scans, 1-16 query/DML, 1-16 spatial index builds. 1-14 statement queuing, 1-16 statistics gathering, 1-16 Parallel Data Pump Export/Import, 1-16 partitioned spatial indexes, 1-14 Partitioning See Oracle Partitioning PDB Snapshot Carousel, 1-4 Personal Edition See Oracle Database Personal Edition

physical standby, 1-17 PL/SQL function result cache, 1-11 pluggable databases, 1-4 point-in-time recovery, 1-7 prefix compression, 1-15 Provider for DRDA See Oracle Database Provider for DRDA

Q

Quality of Service Management, 1-13 query cache, 1-11 query results cache, 1-11

R

R See Oracle R Enterprise RAC One Node See Oracle RAC One Node rapid home provisioning, 1-11 **Real Application Clusters** See Oracle Real Application Clusters (Oracle RAC) **Real Application Security** See Oracle Database Real Application Security **Real Application Testing** See Oracle Real Application Testing real-time cascading standby, 1-6 recovery, block-level media, 1-6 fast-start fault, 1-7 parallel backup and, 1-6 point-in-time, 1-7 trial. 1-7 redaction, 1-14 redo apply, 1-5 restricted use licensing, 1-52 rolling upgrades, 1-6 row-level locking, 1-15

S

SE2 See Oracle Database Standard Edition 2 semantic technologies, 1-14 Shard Director, 1-47 smart flash cache, 1-11 snapshot standby, 1-6 snapshots, 1-14 Spatial and Graph See Oracle Spatial and Graph special license rights, 1-47 SQL apply, 1-6 SQL Performance Analyzer, 1-21, 1-50 SQL Plan Management, 1-9 SQL Tuning Sets, 1-10 SQLJ, 1-4 Standard Edition 2 See Oracle Database Standard Edition 2 Standard Package See Oracle Database Cloud Service Standard Edition Streams See Oracle Streams

Т

table compression, *1-15* tablespace point-in-time recovery, *1-7* third-party licenses, *1-54* TimesTen Application-Tier Database Cache See Oracle TimesTen Application-Tier Database Cache Transaction Guard, *1-7* transportable tablespaces, *1-16* trial recovery, *1-7* Tuning Pack See Oracle Tuning Pack

U

Uncompressed Flashback Data Archive, 1-7 upgrades, rolling, 1-6

V

Virtual Private Database, 1-14

W

Wallet See Oracle Wallet workload management, 1-13

Х

XStream, 1-16, 1-47

Ζ

zone maps, 1-12, 1-20

