Oracle® Database

Licensing Information

11*g* Release 1 (11.1)

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ORACLE®

Oracle Database Licensing Information, 11*g* Release 1 (11.1)

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Contents

Preface

This document, which is part of the Program Documentation under the terms of your Oracle licensing agreement, is intended to help you understand the features, functionality, and options available for Oracle Programs. If you have a question about your licensing needs, please contact your Oracle sales representative or refer to the resources listed in "Related Documents" on page 2-v for more information.

Oracle Database 11*g* is available in multiple editions, each suitable for different development and deployment scenarios.

Oracle also offers several database options and packs that enhance the capabilities of Oracle Database for specific application requirements. *Oracle Database Licensing Information* provides information on these optional database products.

This Preface contains these topics:

- Audience
- Documentation Accessibility
- Related Documents
- Conventions

Audience

This book is intended for all purchasers of Oracle Database 11*g*.

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 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/corporate/pricing/sig.pdf

Conventions

The following text conventions are used in this document:

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

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Oracle Database Editions

This chapter describes the four Oracle Database editions and the features available with those editions. It contains the following sections:

- The Oracle Database Product Family
- Feature Availability by Edition
- Features Specific to the Windows Platform
- Special-Use Licensing
- Changes in Product Licensing

The Oracle Database Product Family

Oracle Database is available in five editions, each suitable for different development and deployment scenarios. Oracle also offers several database options, packs, and other products that enhance the capabilities of Oracle Database for specific application purposes. This section describes the Oracle Database editions. The database enhancement products are described in Chapter 2, "Options and Packs".

Oracle Database Standard Edition One   Oracle Database Standard Edition One delivers unprecedented ease of use, power, and performance for workgroup, department-level, and Web applications. From single-server environments for small business to highly distributed branch environments, Oracle Database Standard Edition One includes all the facilities necessary to build business-critical applications.

Oracle Database Standard Edition   Oracle Database Standard Edition delivers the unprecedented ease of use, power, and performance of Standard Edition One, with support for larger machines and clustering of services with Oracle Real Application Clusters (Oracle RAC). Oracle RAC is not included in the Standard Edition of releases prior to Oracle Database 10g, nor is it an available option with those earlier releases.

Oracle Database Enterprise Edition   Oracle Database Enterprise Edition provides the performance, availability, scalability, and security required for mission-critical applications such as high-volume online transaction processing (OLTP) applications, query-intensive data warehouses, and demanding Internet applications. Oracle Database Enterprise Edition contains all of the components of Oracle Database, and can be further enhanced with the purchase of the options and packs described in Chapter 2, "Options and Packs".

Oracle Database Express Edition   Oracle Database Express Edition (Oracle Database XE) is an entry-level edition of Oracle Database that is quick to download, simple to install and manage, and is free to develop, deploy, and distribute. Oracle Database XE

makes it easy to upgrade to the other editions of Oracle without costly and complex migrations. Oracle Database XE can be installed on any size machine with any number of CPUs, stores up to 4GB of user data, using up to 1GB of memory, and using only one CPU on the host machine. Support is provided by an online forum.

Oracle Database Personal Edition   Oracle Database Personal Edition supports single-user development and deployment environments that require full compatibility with Oracle Database Standard Edition One, Oracle Database Standard Edition, and Oracle Database Enterprise Edition.

Personal Edition includes all of the components that are included with Enterprise Edition, as well as all of the options that are available with Enterprise Edition, with the exception of the Oracle Real Application Clusters option, which cannot be used with Personal Edition. Personal Edition is available on Windows platforms only. The Management Packs are not included in Personal Edition.

Feature Availability by Edition

Table 1–1 lists feature availability for Oracle Database Standard Edition One (SE1), Standard Edition (SE), and Enterprise Edition (EE). The Y value in a column means that the feature is available in the specified release; N means that it is unavailable. This table can help you understand the difference between the editions and determine whether you require Enterprise Edition (or Personal Edition for a single-user environment).

Note that Oracle Database XE is a separate product from the rest of the Oracle Database product family. The features available with Oracle Database XE are documented in *Oracle Database Express Edition Licensing Information*, which is installed along with the product itself.

Table 1–1   Feature Availability for Oracle Database Editions

Feature/Option	SE1	SE	EE	Notes
High Availability				
Oracle Fail Safe	Y	Y	Y	Windows only
Oracle Data Guard—Redo Apply	N	N	Y	
Oracle Data Guard—SQL Apply	N	N	Y	
Oracle Data Guard—Snapshot Standby	N	N	Y	
Oracle Active Data Guard	N	N	Y	Extra cost option
Rolling Upgrades—Patch Set, Database, and Operating System	N	N	Y	
Online index rebuild	N	N	Y	
Online index-organized table organization	N	N	Y	`ALTER TABLE ... MOVE ONLINE` operations
Online table redefinition	N	N	Y	Using the `DBMS_REDEFINITION` package
Duplexed backup sets	N	N	Y	

Table 1–1   (Cont.) Feature Availability for Oracle Database Editions

Feature/Option	SE1	SE	EE	Notes
Block change tracking for fast incremental backup	N	N	Y	
Unused block compression in backups	N	N	Y	
Block-level media recovery	N	N	Y	
Lost Write Protection	N	N	Y	
Parallel backup and recovery	N	N	Y	
Tablespace point-in-time recovery	N	N	Y	
Trial recovery	N	N	Y	
Fast-start fault recovery	N	N	Y	
Flashback Table	N	N	Y	
Flashback Database	N	N	Y	
Flashback Transaction	N	N	Y	
Flashback Transaction Query	N	N	Y	
Flashback Data Archive (Total Recall)	N	N	Y	Requires Oracle Advanced Compression option
Scalability				
Oracle Real Application Clusters	N	Y	Y	Extra cost with EE, included with SE
Automatic Workload Management	N	Y	Y	Requires Oracle Real Application Clusters
Performance				
Client Side Query Cache	N	N	Y	
Query Results Cache	N	N	Y	
PL/SQL Function Result Cache	N	N	Y	
In-Memory Database Cache	N	N	Y	Extra cost option
SQL Plan Management	N	N	Y	
Support for Oracle Exadata Storage Server	N	N	Y	
Support for Oracle Exadata Storage Server Software	N	N	Y	
Security				
Oracle Advanced Security	N	N	Y	Extra cost option
Oracle Label Security	N	N	Y	Extra cost option
Virtual Private Database	N	N	Y	
Fine-grained auditing	N	N	Y	
Oracle Database Vault	N	N	Y	Extra cost option

Table 1–1   (Cont.) Feature Availability for Oracle Database Editions

Feature/Option	SE1	SE	EE	Notes
Development Platform				
SQLJ	Y	Y	Y	Requires Oracle Programmer
Oracle Developer Tools for Visual Studio .NET	Y	Y	Y	Windows only
Microsoft Distributed Transaction Coordinator support	Y	Y	Y	Windows only
Active Directory integration	Y	Y	Y	Windows only
Native .NET Data Provider—ODP.NET	Y	Y	Y	Windows only
.NET Stored Procedures	Y	Y	Y	Windows only
Manageability				
Oracle Change Management Pack	N	N	Y	Extra cost option
Oracle Configuration Management Pack	N	N	Y	Extra cost option
Oracle Diagnostic Pack	N	N	Y	Extra cost option
Oracle Tuning Pack	N	N	Y	Extra cost option, also requires the Diagnostic Pack
Oracle Provisioning and Patch Automation Pack	N	N	Y	Extra cost option
Database Resource Manager	N	N	Y	
Oracle Real Application Testing	N	N	Y	Extra cost option
VLDB, Data Warehousing, Business Intelligence				
Oracle Partitioning	N	N	Y	Extra cost option
Oracle OLAP	N	N	Y	Extra cost option
Oracle Data Mining	N	N	Y	Extra cost option
Oracle Advanced Compression	N	N	Y	Extra cost option
Direct-Load Table Compression	N	N	Y	
Bitmapped index, bitmapped join index, and bitmap plan conversions	N	N	Y	
Parallel query/DML	N	N	Y	
Parallel statistics gathering	N	N	EE	
Parallel index build/scans	N	N	Y	
Parallel Data Pump Export/Import	N	N	Y	
Transportable tablespaces, including cross-platform	N	N	Y	Import of transportable tablespaces supported into SE, SE1, and EE
Summary management—Materialized View Query Rewrite	N	N	Y	
Asynchronous Change Data Capture	N	N	Y	
Integration				
Basic Replication	Y	Y	Y	SE1/SE: read-only, updateable materialized view
Advanced Replication	N	N	Y	Multi-master replication
Oracle Streams	Y	Y	Y	SE1/SE: no capture from redo
Database Gateways	Y	Y	Y	Separate product license

Table 1–1   (Cont.) Feature Availability for Oracle Database Editions

Feature/Option	SE1	SE	EE	Notes
Networking				
Oracle Connection Manager	N	N	Y	
Infiniband Support	N	N	Y	
Content Management				
Oracle Spatial and Graph	N	N	Y	Extra cost option
Semantic Technologies (RDF/OWL)	N	N	Y	Requires the Oracle Spatial and Graph option and the Oracle Partitioning option

Features Specific to the Windows Platform

The following features related to application development are available only on Windows platforms:

- COM Automation

- Microsoft Transaction Server/COM+ integration

- Oracle OLE DB Provider

- Oracle Objects for OLE (OO4O)

- VLM Support

- OLE DB .NET and ODBC .NET support

- Native .NET Data Provider - ODP.NET

- Oracle Database Extensions for .NET (.NET Stored Procedures)

Special-Use Licensing

Oracle Database Express Edition   Oracle Database Express Edition may be used for free, for the purposes of developing, prototyping and running applications. It can also be used for free to provide demonstrations and training. It may also be distributed for free with any applications. However, any use of the Oracle Database Express Edition is subject to the following limitations:

1. Express Edition is limited to a single instance on any server.

2. Express Edition may be installed on a multiple CPU server, but may only be executed on one processor in any server.

3. Express Edition may be used only to support up to 4GB of user data (not including Express Edition system data).

4. Express Edition may use up to 1 GB RAM of available memory.

The Oracle technical support organization will not provide technical support, phone support, or updates for Oracle Database Express Edition.

Oracle Standard Edition and Oracle Real Application Clusters (Oracle RAC)   When used with Oracle Real Application Clusters in a clustered server environment, Oracle Database Standard Edition requires the use of Oracle Clusterware. Third-party clusterware management solutions are not supported.

When used with Oracle Real Application Clusters, Oracle Advanced Security SSL/TLS is included.

The license restrictions for Standard Edition must be adhered to. The maximum number of CPUs defined is for the entire cluster; it is not a per node maximum.

Automatic Storage Management (ASM) must be used to manage all database-related files. Third-party volume managers and file systems are not supported for this purpose. ASM is required for the storage of:

- Database data files

- Online logs

- Archive logs

- Control files

- Server parameter files (spfiles)

- Flash Recovery Area

RAW disk partitions are required for:

- Voting disk

- Oracle Cluster Registry

Local storage must be used for:

- Oracle Home

- Trace files

- Dump files

No Oracle-maintained copies of any of the above files can exist in any other locations, with the following exception: Customers who want to manually script maintenance of a standby database can create a second copy of their archive logs outside of ASM on a local file system only, designated by the `LOG_ARCHIVE_DEST_n` parameter.

RMAN backups of files can reside on either a local or network mounted file system.

No other cluster software can be installed on the system, including, OCFS, OCFS2, third-party clusterware, third-party cluster volume managers, and third-party cluster file systems.

Oracle Clusterware   Oracle Clusterware can be installed and used to protect any Oracle or third-party software provided any of the following conditions are met:

1. The software being protected is from Oracle.

2. The software being protected uses an Oracle Database.

3. The software being protected is running on Oracle Unbreakable Linux.

4. The software being protected is running in a cluster where at least one machine involved in the cluster is licensed using the appropriate metric for either Oracle Database Enterprise Edition or Oracle Database Standard Edition.

A cluster is defined to include all the machines that share the same Oracle Cluster Registry (OCR) and Voting Disk.

Oracle Database Vault and Oracle9*i* Database Release 2 (9.2.0.8)   A separate Oracle Database 10*g* can be installed and used to administer Oracle Database Vault when installed with Oracle9*i* Database Release 2 (9.2.0.8), without additional license requirements. All 9.2.0.8 databases managed by Database Control in this manner must

be correctly licensed with the Oracle Database Vault option. The installation of Oracle Database 10*g* deployed in this manner may not be used or deployed for other uses.

Oracle Connection Manager   Oracle Connection Manager can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Connection Manager.

Oracle Database 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.

Support of Real Application Testing in Earlier Releases   The full functionality of Oracle Real Application Testing is available only on Oracle Database 11*g* Release 1 or higher. Partial functionality of Oracle Real Application Testing is available to customers wishing to upgrade from Oracle9*i* Database Release 2 or Oracle Database 10*g*.

The functionality available on Oracle9*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 11*g*. This feature can be used only to facilitate upgrades from Oracle 9*i* Database Release 2 to Oracle Database 11*g*.

The functionality available on Oracle Database 10*g* 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 11*g*. This feature can be used only to facilitate upgrades from Oracle Database 10*g* Release 2 to Oracle Database 11*g*.

- **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* Database Release 2 and Oracle Database 10*g* Release 1 to Oracle Database 10*g* Release 2 or higher. When upgrading to Oracle Database 10*g* Release 2 from earlier releases (Oracle 9*i* Database or Oracle Database 10*g* Release1), Oracle Database 11*g* is needed to remotely execute SQL on the target database (that is, Oracle Database 10*g* Release 2). Real Application Testing licensing is required for both systems, Oracle Database 10*g* Release 2 and Oracle Database 11*g*.

Oracle Scheduler   Oracle Scheduler is a database feature that provides job scheduling functionality. Execution of jobs on machines where the Oracle database is installed is included with the Oracle Database license. For enterprise scheduling, the execution of jobs on remote machines where no Oracle database is installed is licensed as part of System Monitoring Plug-in for Hosts.

Oracle Secure Backup Express   Oracle Secure Backup Express is bundled with the Oracle Database. Oracle's technical support organization will provide technical support, phone support, or updates to you for Oracle Secure Backup Express when it is used to back up another Oracle Product that has a valid Customer Support Identifier (CSI). For example, if Oracle Secure Backup Express is used to back up an Oracle database that has a valid Customer Support Identifier, then Oracle Support provides technical support for the backup of this database.

Updates and technical support are only provided to customers who maintain technical support services for their Oracle licenses in accordance with Oracle's Technical Support Policies. Oracle Secure Backup is a separately licensed product and is supported in accordance with Oracle's Technical Support Policies.

Legato Storage Manager and Legato Single Server Version. Oracle Secure Backup Express is the replacement product for Legato Storage Manager (LSM) and Legato Single Server Version (LSSV). If you are currently using LSM or LSSV, then you can use Oracle Secure Backup Migration Guide to learn how to migrate these products to Oracle Secure Backup Express.

Oracle Secure Backup Express can back up an Oracle database as well as Oracle home files and other file system data requiring tape protection.

Oracle Wallet An Oracle Wallet is a PKCS#12 container used to store authentication and encryption keys. The Oracle database secure external password store feature stores passwords in an Oracle Wallet for password-based authentication to the Oracle database. The Oracle Wallet may also be used to store credentials for PKI authentication to the Oracle Database, configuration of network encryption (SSL/TLS), and Oracle Advanced Security transparent data encryption (TDE) master encryption keys. Strong authentication services (Kerberos, PKI, and RADIUS) and network encryption (native network encryption and SSL/TLS) are no longer part of Oracle Advanced Security and are available in all licensed editions of all supported releases of the Oracle database.

Infrastructure Repository Databases A separate Oracle Database can be installed and used as a Recovery Manager (RMAN) repository without additional license requirements, provided that all the Oracle databases managed in this repository are correctly licensed. This repository database may also be used for the Oracle Enterprise Grid Control repository. It may not be used or deployed for other uses.

A separate Oracle Database can be installed and used as an Oracle Enterprise Manager Grid Control (OEM Grid Control) repository without additional license requirements, provided that all the targets (databases, applications, and so forth) managed in this repository are correctly licensed. This database may also be used for the RMAN repository. It may not be used or deployed for other uses.

Current User Database Links

Current user database links are one type of database link that is supported inside the Oracle Enterprise Edition database. Current user database links provide stronger security because they do not require credentials to be stored inside the database link definition. Current user database links require Enterprise User Security and use SSL to secure the communication channel over which the current user database link communicates with the target database. If you wish to use current user database links, you do not need to license Oracle Advanced Security to enable SSL.

Restricted-Use Licensing The following restricted-use licenses are included with Oracle Database 11g in the editions indicated:

- A restricted-use license for 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. Please contact your Oracle sales representative for additional information on Oracle Internet Directory (OID).

- 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 Grid Control), Advanced Queuing Servlet, Ultra Search, Application Express, and Warehouse Builder, and may not be used or deployed for other purposes.

- 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.

- A restricted-use license for Oracle Application Express Listener is included with all editions (except for Oracle Database Express Edition) solely to support connectivity to Oracle Application Express, which may be installed in the Oracle Database. Running Oracle Application Express Listener on a different server does not require that that server be licensed to use the Oracle Database.

- 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.

Changes in Product Licensing

Oracle Warehouse Builder Enterprise ETL Option

The following features, previously licensed with the Oracle Warehouse Builder ETL Option, are no longer licensed with the Oracle Database. Instead, they are licensed via the Oracle Data Integrator Enterprise Edition:

- Slowing Changing Dimensions (SCD) Type 2 and 3

- XML Files as a target

- Transportable ETL modules, multiple configurations, and pluggable mappings

- Operators for pluggable mapping, pluggable mapping input signature, pluggable mapping output signature

- Design Environment Support for RAC

- Target load ordering

- Seeded spatial and streams transformations

- Process Flow Activity templates

- Process Flow variables support

- Process Flow looping activities such as For Loop and While Loop

- Process Flow Route and Notification activities

- Metadata lineage and impact analysis

- Metadata change propagation

- Schedulable Mappings and Process Flows

- Metadata Extensibility

- Deployment to Discoverer EUL

- Deployment to Oracle BI Beans catalog

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Options and Packs

This chapter describes the separately licensed Oracle Database options, management packs, and other products you can purchase to enhance the capabilities of Oracle Database in specific application environments. This chapter contains the following sections:

- Oracle Database Options
- Oracle Management Packs
- Other Oracle Products

You may not use the options, packs, or products described below without separately purchased licenses. The fact that these options, packs, or products may be included in product CDs or downloads or described in documentation that you receive does not authorize you to use them without purchasing appropriate licenses.

Oracle Database Options

All the Oracle Database options can be purchased with Oracle Database Enterprise Edition. Oracle Real Application Clusters (Oracle RAC) is included with Oracle Database Standard Edition. You cannot purchase any options with Oracle Database Standard Edition One or Oracle Express Edition. The Personal Edition includes all options except Oracle RAC at no additional cost.

Oracle Active Data Guard

Oracle Active Data Guard enhances the Quality of Service (QoS) for production databases by off-loading resource-intensive operations to one or more standby databases, which are synchronized copies of the production database. With Oracle Active Data Guard, a physical standby database can be used for real-time reporting, with minimal latency between reporting and production data. Compared with traditional replication methods, Active Data Guard is very simple to use, transparently supports all data types, and offers very high performance. Oracle Active Data Guard also allows backup operations to be off-loaded to the standby database, and be done very fast using intelligent incremental backups. Oracle Active Data Guard thus is a very effective way to insulate interactive users and critical business tasks on the production system from the impact of such long-running operations. Oracle Active Data Guard provides the additional benefit of high availability and disaster protection by quickly failing over to the standby database in the event of a planned or an unplanned outage at the production site.

The Active Data Guard option contains the following features:

- Physical Standby with Real-time Query

- Fast Incremental Backup on Physical Standby

If a physical standby database in a Data Guard configuration has any of the above features enabled, then the Active Data Guard option must be licensed for every such physical standby, and also for the primary database.

Oracle Advanced Compression

Oracle Advanced Compression provides comprehensive data compression capabilities to compress all types of data, backups, and network traffic in an application transparent manner. With Advanced Compression, Oracle includes table compression targeted at OLTP workloads, resulting in reduced storage consumption and improved query performance while incurring minimal write performance overhead. Advanced Compression can be used to compress any unstructured content using SecureFile Compression. Deduplication provides the ability to automatically eliminate redundant copies of SecureFile data. A new faster compression algorithm is included in the Advanced Compression to speed up RMAN backups. With Advanced Compression, Data Pump exports can now be compressed to reduce disk space requirements. Finally, Data Guard can compress redo data resulting in reduced network traffic and faster gap resolution.

The Oracle Advanced Compression option contains the following features:

- Data Guard Network Compression
- Data Pump Compression
- Fast RMAN Compression
- OLTP Table Compression
- SecureFile Compression and Deduplication
- Flashback Data Archive (Total Recall)

Oracle Advanced Security

Oracle Advanced Security helps you protect sensitive information and comply with various privacy and compliance regulations including breach notification laws and the Payment Card Industry Data Security Standard (PCI-DSS) by enabling encryption inside the database that is transparent to applications.

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 password-based authentication. However, you must license Oracle Internet Directory (OID). Any Oracle Advanced Security licenses purchased on or before January 31, 2004, have restricted use of the Oracle Internet Directory (OID) to support enterprise user security. Please contact your Oracle sales representative for additional information.

Oracle Advanced Security includes the following features:

- Transparent Data Encryption (TDE) for columns
- Transparent Data Encryption (TDE) for tablespace
- Transparent Data Encryption (TDE) for securefiles
- DataPump Export File encryption
- RMAN backup encryption

Network encryption (native network encryption and SSL/TLS) and strong authentication services (Kerberos, PKI, and RADIUS) are no longer part of Oracle

Advanced Security and are available in all licensed editions of all supported releases of the Oracle database.

Oracle Data Mining

Oracle Data Mining enables you to build advanced business intelligence applications that mine corporate databases, reveal new patterns and relationships, and integrate that information into business applications. This option embeds data mining functionality into Oracle Database for making classifications, predictions, and associations. All model-building, scoring, and metadata management operations are accessible by way of either a Java or PL/SQL API.

The Oracle Data Mining option includes the following features:

APIs and GUIs Supported to Access Algorithms:

- PL/SQL API—for model build, model apply, and data transformations
- Java API—for model build, model apply & data transformations
- Oracle Data Miner (GUI)
- Spreadsheet Add-in for Predictive Analytics

Algorithm Category and Supported Algorithms:

- Classification
  - Naive Bayes
  - Decision Trees
  - Support Vector Machines
  - Logistic Regression
- Regression
  - Multivariate Linear Regression
  - Support Vector Machines
- Anomaly Detection
  - One Class Support Vector Machines
- Attribute Importance
  - Minimum Description Length
- Association Rules
  - A Priori
- Clustering
  - Hierarchical K-Means Clustering
  - Hierarchical O-Clustering
- Predictive Analytics (PL/SQL Packages)
  - Predict
  - Explain
  - Profile
- Feature Extraction

       – Nonnegative Matrix Factorization

Oracle Database Vault

Oracle Database Vault lets you control who, when, and where data and applications can be accessed—protecting your business against the most common security threat: malicious internal users. Enforcing separation of duties, even among administrators, Oracle Database Vault additionally serves as a powerful preventive control to help comply with today's stringent compliance and privacy requirements.

- It improves your ability to meet compliance requirements like Sarbanes-Oxley and other regulations that mandate control of access to, and release of, sensitive information

- It controls access to application and database data, even by super-users and other highly privileged users

- It enforces multi factor authorization via flexible business rules

- It shows who is accessing what and when via over three dozen out-of-the-box security reports

Oracle Database Vault is an option for Oracle Database 10*g* or later. However, it has also been provided for earlier releases as well, including Oracle9*i* Database Release 2 (9.2.0.8) on a limited number of platforms. Please contact your Oracle Sales Representative if you are interested in Oracle Database Vault as an option on Oracle9*i* Database.

The Oracle Database Vault option includes the following features:

- Realms

- Separation of Duty

- Factors

- Command Rules

- Rule Sets

Oracle In-Memory Database Cache

Oracle In-Memory Database Cache enables you to improve application transaction response time by caching a performance-critical subset of tables and table fragments from an Oracle database to the application tier. The table fragments are described through an extended SQL syntax and are cached into Oracle In-Memory Database Cache tables. Cache tables can be specified as read-only or updatable. Applications read and update the cache tables using standard SQL. Cache table hierarchy for related tables with foreign key constraints is maintained for data consistency. Automatic data synchronization between the cache and the Oracle database is provided.

Cache tables are managed like regular relational database tables within the TimesTen In-Memory Database. Thus, Oracle In-Memory Database Cache offers applications the full generality and functionality of a relational database, the transparent maintenance of cache consistency with the Oracle Database, and the real-time performance of an in-memory database. This Database option is ideal for caching performance-critical subsets of an Oracle database for improved response time in the application tier.

Oracle In-Memory Database Cache includes the following features:

- Static and dynamic caching of Oracle database tables

- Automatic data refresh from Oracle database to the in-memory cache

- Automatic transaction write-through from the in-memory cache to the Oracle database
- Automatic data aging with user-defined policies
- Standard SQL functionality and database transaction semantics
- Transactional replication with Active-Standby Pair topology
- Real-time change notification using Transaction Log API (XLA)

Oracle Label Security

Oracle Label Security provides sophisticated and flexible security based on row labels for fine-grained access control. This option employs labeling concepts used by government, defense, and commercial organizations to protect sensitive information and provide data separation. It includes a powerful tool to manage policies, labels, and user label authorizations.

By default, Oracle Label Security is configured to use Oracle Database for all policy management. Users interested in centralized policy management using the Oracle identity management infrastructure must additionally license Oracle Identity and Access Management Suite. Please contact your Oracle sales representative for additional information.

The Oracle Label Security option includes the following features:

- Label based access control (LBAC)
- Multi-level security (MLS)
- Label factors for Database Vault (Confidential, Sensitive)
- User label authorizations (Confidential, Sensitive: PII)
- Data labels (Sensitive: PII)

Oracle On-Line Analytical Processing (OLAP)

The OLAP option to Oracle Database is a full-featured OLAP server embedded in Oracle Database Enterprise Edition. Oracle OLAP cube data types improve business intelligence tools and applications by providing excellent query performance, rich analysis, and fast incremental updates of data sets. OLAP cubes are easily queried by SQL-based business intelligence tools through cube-organized materialized views and OLAP cube views. Cube-organized materialized views provide an alternative summary management solution to table-based materialized views. As with a table-based materialized view, an OLAP cube is accessed by SQL-based tools transparently using the automatic SQL query rewrite feature of the materialized views. SQL-based tools can access both summary data and rich analytic content directly through OLAP cube views. Multidimensional OLAP tools can provides a full-dimensional OLAP experience using the Oracle OLAP multidimensional API to cubes. A single OLAP cube can service each of these types of applications.

The Oracle OLAP option 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

Oracle Partitioning

Oracle Partitioning enhances the data management environment for OLTP, data mart, data warehouse, and content management applications by adding significant manageability, availability, and performance capabilities to large underlying database tables and indexes. Oracle Partitioning lets you store large tables as individually managed smaller pieces, while retaining a single application-level view of the data.

The Oracle Partitioning option includes the following features:

- Table Partitions and Subpartitions
- Local Index Partitions and Subpartitions
- Global Index Partitions and Subpartitions
- Range Partitioning
- Hash Partitioning
- List Partitioning
- Interval Partitioning
- Reference Partitioning
- System Partitioning
- Virtual Column-based Partitioning
- Composite Partitioning
- Subpartition Template
- Fast Partition Split
- Partition Exchange

Oracle Real Application Clusters (Oracle RAC)

Oracle Real Application Clusters (Oracle RAC) is a database computing environment that harnesses the processing power of multiple interconnected computers using clustering technology. Oracle RAC provides unlimited scalability and high availability for all applications. Oracle RAC makes the database highly available in the presence of computer hardware or software failure: in the event any computer in the cluster fails, the database continues to provide service on the surviving computers in the cluster. Oracle RAC provides scalable performance: as demand for database throughput grows, additional computers can be added to the database cluster with no downtime. Oracle RAC supports a single-system image for ease of management. Oracle RAC also provides a complete and integrated stack of clustering software on all platforms; third-party clusterware software is not required. Finally, Oracle RAC provides cluster file system capability on the Windows and Linux platforms.

Oracle Real Application Clusters includes the following features:

- Real Application Clusters
- Cluster Verification Utility
- Automatic Workload Management
- Connection Load Balancing
- Fast Connection Failover
- Hot Cluster Failover

■ Oracle Advanced Security SSL/TLS

Oracle Real Application Testing

The Oracle Real Application Testing option comprises a suite of features that help protect database applications from undesirable impact of routine changes such as hardware/software upgrades, configuration changes, platform migrations, and so forth. These features enable comprehensive testing of real-world applications so that any issues resulting from system changes are fully identified and addressed during testing, and unexpected problems encountered when a change is finally made in the production systems are minimized.

The Oracle Real Application Testing option includes the following features:

■ Database Replay

■ SQL Performance Analyzer (SPA)

■ SQL Tuning Sets (STS)

In order to use the features listed above, you must purchase licenses for the Oracle Real Application Testing option, with one exception: SQL Tuning Sets (STS) can be used if you have licensed either the Tuning Pack or Oracle Real Application Testing. Oracle Real Application Testing functionality can be accessed by Enterprise Manager as well as through the database server command-line APIs. The use of either interface requires an Oracle Real Application Testing option license.

Command-Line APIs

The Database Replay feature can also be accessed by way of database server APIs and command-line interfaces:

■ `DBMS_WORKLOAD_CAPTURE` package is part of the Oracle Real Application Testing option

■ `DBMS_WORKLOAD_REPLAY` package is part of the Oracle Real Application Testing option

The SQL Performance Analyzer feature can also be accessed by way of database server APIs and command-line interfaces:

■ `DBMS_SQLPA` package is part of Oracle Real Application Testing option

SQL Tuning Sets can also be accessed by way of database server APIs and command-line interfaces. The following subprograms, part of the `DBMS_SQLTUNE` package, provide an interface to manage SQL tuning sets and are part of the Oracle Real Application Testing option:

■ `ADD_SQLSET_REFERENCE`

■ `CAPTURE_CURSOR_CACHE_SQLSET`

■ `CREATE_SQLSET`

■ `CREATE_STGTAB_SQLSET`

■ `DELETE_SQLSET`

■ `DROP_SQLSET`

■ `LOAD_SQLSET`

■ `PACK_STGTAB_SQLSET`

■ `REMOVE_SQLSET_REFERENCE`

- `SELECT_CURSOR_CACHE`

- `SELECT_SQLSET`

- `SELECT_WORKLOAD_REPOSITORY`

- `UNPACK_STGTAB_SQLSET`

- `UPDATE_SQLSET`

The Oracle Real Application Testing license is required on both capture and replay systems for Database Replay and is charged by the total number of CPUs on those systems.

Oracle Spatial and Graph

The Oracle Spatial and Graph option includes advanced features for spatial data and analysis and for physical, network, and social graph applications.

Spatial Features

The geospatial data features support complex geographic information systems (GIS) applications, enterprise applications, and location-based services applications, augmenting the Oracle Database Locator feature, which provides storage, analysis, and indexing of 2D location data accessible through SQL and standard programming languages.

These advanced spatial features include:

- Selected Spatial Functions, including the `SDO_AGGR_UNION` spatial aggregate function

- The following `SDO_GEOM` package subprograms: `SDO_GEOM.RELATE`, `SDO_GEOM.SDO_DIFFERENCE`, `SDO_GEOM.SDO_INTERSECTION`, `SDO_GEOM.SDO_UNION`, `SDO_GEOM.SDO_VOLUME`, and `SDO_GEOM.SDO_XOR`

- Classes in packages other than the `oracle.spatial.geometry` (`sdoapi.jar`) and `oracle.spatial.util` (`sdoutil.jar`) packages of the Spatial Java API

- Linear Referencing System (LRS) support

- GeoRaster Storage, Indexing, and Querying

- Network Data Model

- Topology Data Model

- Spatial analysis and mining subprograms (`SDO_SAM` package)

- Spatial Routing Engine

- Geocoding Engine

- Spatial Web Services including OpenLS support, including support for geocoding, mapping, business directory (Yellow Pages), and driving directions (routing) services, Web feature service (WFS) support (`SDO_WFS_PROCESS` and `SDO_WFS_LOCK` packages), and Catalog services for the Web (CSW) support (`SDO_CSW_PROCESS` package)

- 3-D Geometry, Surface, Triangulated irregular network (TIN), and Point Cloud Storage, Indexing, and Querying

- Semantic Content Storage, Indexing, and Querying (RDF/OWL Support), and ontology management

> **Note:** Oracle Locator, a feature of Oracle Database 11*g*, includes the spatial vector geometry type, spatial indexing and operators, and a limited set of spatial functions. The list of functions included in Locator can be found in Appendix B of *Oracle Spatial Developer's Guide*.

Graph Features

The graph database features include two graph models:

- 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
- A semantic RDF graph to model and analyze data represented as triples for social network, linked data, and other semantic applications

The Network Data Model graph 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

The RDF Semantic graph 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:** The RDF Semantic graph features require the Oracle Partitioning option.

Oracle Management Packs

The sections that follow describe the Oracle management packs. The management packs can be purchased only with Enterprise Edition. The features in these packs are accessible through Oracle Enterprise Manager Database Control, Oracle Enterprise Manager Grid Control, and APIs provided with Oracle Database software.

This section describes the following management packs:

- Oracle Change Management Pack
- Oracle Configuration Management Pack
- Oracle Data Masking and Subsetting Pack for Oracle and non-Oracle Databases
- Oracle Diagnostic Pack
- Oracle Provisioning and Patch Automation Pack
- Oracle Tuning Pack

Oracle Change Management Pack

The Oracle Change Management Pack enables administrators to evaluate, plan, and implement database schema changes. Using the Change Management Pack, administrators can investigate and track changes, compare and synchronize objects and schemas, modify schema objects, evaluate the change impact, and if required undo changes that have been made previously. The Change Management Pack makes change management simple and efficient and minimizes chances for error, thereby reducing the opportunity for data loss and system down-time.

The Change Management Pack includes the following features:

- Reverse engineer database and schema definitions

- Capture and version baselines

- Compare databases and schemas, or baselines

- Copy database objects with data, with a subset of the data, or without data

- Update database object definitions (`ALTER TABLE`)

- Synchronize objects and schemas

- Evaluate the impact of changes

- Clone or propagate application schemas

Oracle Configuration Management Pack

The Oracle Configuration Management Pack automates the time-consuming and often error prone process of software configuration, software and hardware inventory tracking, patching, cloning and policy management. The Configuration Management Pack includes the following features:

- Database and Host Configuration

- Deployments

- Search configuration

- Compare configuration

- Policies, including Security checks and scoring

In order to use the features listed above, you must purchase licenses for the Configuration Management Pack. The Configuration Management Pack functionality can be accessed by the Enterprise Manager and through the Enterprise Manager repository views. The use of either interface requires licensing of the Configuration Management Pack.

In earlier releases, three additional features were part of this pack: Patch Deployment (Patch Database and View Patch Cache, Patch staging), Clone Oracle Home, and Clone Database. These features are no longer part of the Configuration Management Pack. They are now part of the Oracle Provisioning and Patch Automation Pack, which is licensed with Enterprise Manager. However, if you have previously licensed the Configuration Management Pack for Oracle Database, you are entitled to use these features without licensing the Oracle Provisioning and Patch Automation Pack.

Enterprise Manager

To determine which links in Enterprise Manager Grid Control and Database Control are part of the Configuration Management Pack, click the **Setup** link on the top right-hand part of the Enterprise Manager Home page.

- When you click the **Setup** link, the navigation bar contains the **Management Pack Access** link. Click this link.

- This will take you to the **Management Pack Access** page, which allows you to grant and remove access from all the management packs.

  - For Enterprise Manager Database Control, click the **Remove Access** radio button for the Configuration Management Pack and click **Apply**.

  - For Enterprise Manager Grid Control, click the appropriate check box for the Configuration Management Pack and click **Apply**.

This will disable all the links and tabs associated with the Configuration Management Pack in Enterprise Manager. All the disabled links and tabs are part of the Configuration Management Pack and therefore require pack license.

Configuration Management Pack Database Reports

The following reports found are part of this pack:

- On the **Deployment and Configuration** page: all reports

- From the **Monitoring** page, the **Alerts and Policy Violations** link: all reports.

- From the **Monitoring** page, the **Disabled Policies** link: all reports.

- From the **Security** page, the **Security Policy Overview** link: all reports.

Configuration Management Pack Enterprise Manager Repository Views

- **Policy Definition Views**

  - MGMT$POLICIES

  - MGMT$POLICY_PARAMETERS

  - MGMT$POLICY_VIOLATION_CTXT

  - MGMT$POLICY_VIOL_ANNOTATIONS

  - MGMT$POLICY_VIOL_NOTIF_LOG

- **Policy Association Views**

  - MGMT$TARGET_POLICIES

  - MGMT$TARGET_POLICY_SETTINGS

  - MGMT$TARGET_POLICY_EVAL_SUM

  - MGMT$TARGET_COMPLIANCE_SCORE

- **Policy Violation Views**

  - MGMT$POLICY_VIOLATION_CURRENT

  - MGMT$POLICY_VIOLATION_HISTORY

  - MGMT$POLICY_VIOLATION_CONTEXT

- **Configuration Views**

  - MGMT$DB_TABLESPACES

  - MGMT$DB_DATAFILES

  - MGMT$DB_CONTROLFILES

- **Oracle Home Patching**

- MGMT$CPF_ADVISORY_INFO
- MGMT$CPF_HOMES_INFO
- MGMT$CPF_PATCH_INFO
- MGMT$EM_HOMES_PLATFORM
- MGMT$HOMES_AFFECTED
- MGMT$PATCH_ADVISORIES
- MGMT$APPL_PATCH_AND_PATCHSET
- MGMT$APPLIED_PATCHES
- MGMT$APPLIED_PATCHSETS

- **Linux Patching**
  - MGMT$HOSTPATCH_HOSTS
  - MGMT$HOSTPATCH_GROUPS
  - MGMT$HOSTPATCH_GRP_COMPL_HIST
  - MGMT$HOSTPATCH_HOST_COMPL

- **Security Views**
  - 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

- **Client Configuration Views**
  - MGMT$CSA_COLLECTIONS
  - MGMT$CSA_FAILED
  - MGMT$CSA_HOST_OS_COMPONENTS
  - MGMT$CSA_HOST_SW
  - MGMT$CSA_HOST_COOKIES
  - MGMT$CSA_HOST_CUSTOM
  - MGMT$CSA_HOST_RULES
  - MGMT$CSA_HOST_CPUS
  - MGMT$CSA_HOST_IOCARDS
  - MGMT$CSA_HOST_NICS
  - MGMT$CSA_HOST_OS_PROPERTIES
  - MGMT$CSA_HOST_OS_FILESYSEMS
  - MGMT$ECM_CONFIG_HISTORY
  - MGMT$ECM_CONFIG_HISTORY_KEY1
  - MGMT$ECM_CONFIG_HISTORY_KEY2
  - MGMT$ECM_CONFIG_HISTORY_KEY3
  - MGMT$ECM_CONFIG_HISTORY_KEY4
  - MGMT$ECM_CONFIG_HISTORY_KEY5
  - MGMT$ECM_CONFIG_HISTORY_KEY6
  - MGMT$HW_NIC
  - MGMT$OS_COMPONENTS
  - MGMT$OS_FS_MOUNT
  - MGMT$OS_HW_SUMMARY
  - MGMT$OS_HW_SUMMARY
  - MGMT$OS_PATCHES
  - MGMT$OS_SUMMARY
  - MGMT$SOFTWARE_COMP_PATCHSET
  - MGMT$SOFTWARE_COMPONENT_ONEOFF
  - MGMT$SOFTWARE_COMPONENTS
  - MGMT$SOFTWARE_DEPENDENCIES
  - MGMT$SOFTWARE_HOMES
  - MGMT$SOFTWARE_ONEOFF_PATCHES
  - MGMT$SOFTWARE_OTHERS
  - MGMT$SOFTWARE_PATCHES_IN_HOMES
  - MGMT$SOFTWARE_PATCHSETS

Oracle Data Masking and Subsetting Pack for Oracle and non-Oracle Databases

The Oracle Data Masking and Subsetting Pack facilitates the creation of production-like data for non-production environments by replacing production data with fictitious yet realistic values. Generation of the fictitious data can be performed during export or on a separate staging server. The Subsetting functionality provides the ability to mask a portion of the original data. Subsetting can also be used without masking to extract a portion of the original data

Features

Oracle Data Masking and Subsetting Pack includes the following components and 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

The Oracle Data Masking and Subsetting Pack for non-Oracle Databases 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 the Oracle Data Masking and Subsetting Pack for non-Oracle databases, the Oracle Database Gateways stage the data in a separately licensed Oracle database. Oracle Data Masking and Subsetting functionality cannot be executed directly against the non-Oracle database.

Oracle Data Masking and Subsetting Pack must be licensed for:

1. The source database server, i.e., the databases from which the data originates.

2. The staging database server on which masking and subsetting operations are executed.

Licensed Links

The following are the licensed pages and links for the Oracle Data Masking and Subsetting Pack within Oracle Enterprise Manager.

Licensed Page/Link	How to Access
Application Data Models	From the Enterprise Summary home page, click the **Enterprise menu**, then **Quality Management**, then **Application Data Models**.
	From the Oracle database or cluster database target home page, click the **Schema menu**, then **Application Data Models**.
	All features, functions, links, buttons, and drill-downs on these menus are licensed as part of the Oracle Data Masking and Subsetting Pack.
Data Masking Definitions	From the Enterprise Summary home page, click the **Enterprise menu**, then **Quality Management**, then **Data Masking Definitions**.
	From the Oracle database or cluster database target home page, click the **Schema menu**, then **Data Masking Definitions**.
	All features, functions, links, buttons, and drill-downs on these menus are licensed as part of the Oracle Data Masking and Subsetting Pack.
Data Masking Format Library	From the Enterprise Summary home page, click the **Enterprise menu**, then **Quality Management**, then **Data Masking Formats**.
	From the Oracle database or cluster database target home page, click the **Schema menu**, then **Data Masking Format Library**.
	All features, functions, links, buttons, and drill-downs on these menus are licensed as part of the Oracle Data Masking and Subsetting Pack.
Data Subset Definitions	From the Enterprise Summary home page, click the **Enterprise menu**, then **Quality Management**, then **Data Subset Definitions**.
	From the Oracle database or cluster database target home page, click the **Schema menu**, then **Data Subsetting**.
	All features, functions, links, buttons, and drill-downs on these menus are licensed as part of the Oracle Data Masking and Subsetting Pack.

Note:

1. Oracle Data Masking and Subsetting Pack incorporates the previous Oracle Data Masking Pack and Oracle Test Data Management Pack.

2. Application Data Modeling was previously called Data Discovery and Modeling.

Oracle Diagnostic Pack

The Oracle Diagnostic Pack provides automatic performance diagnostic and advanced system monitoring functionality. The Diagnostic Pack includes the following features:

- Automatic Workload Repository

- Automatic Database Diagnostic Monitor (ADDM)

- Active Session History (ASH)

- Performance monitoring (database and host)

- Event notifications: notification methods, rules, and schedules

- Event history and metric history (database and host)

- Blackouts

- Dynamic metric baselines

- Monitoring templates

- Memory-access based performance monitoring

- Supporting functionality to perform per stream bottleneck detection and per component top wait event analysis

In order to use the features listed above, you must purchase licenses for the Diagnostic Pack. A new initialization parameter, CONTROL_MANAGEMENT_PACK_ACCESS, controls access to the Diagnostic Pack and Tuning Pack. This parameter can be set to one of three values:

- DIAGNOSTIC+TUNING: Diagnostic Pack and Tuning Pack functionally is enabled in the database server.

- DIAGNOSTIC: Only Diagnostic Pack functionality is enabled in the server.

- NONE: Diagnostic Pack and Tuning pack functionally is disabled in the database server.

The Diagnostic Pack functionality can be accessed by Enterprise Manager links as well as through the database server command-line APIs. The use of either interface requires a Diagnostic Pack license.

Enterprise Manager

To determine which links in Enterprise Manager Grid Control and Database Control are part of the Diagnostics Packs, click the **Setup** link on the top right-hand part of the Enterprise Manager Home page.

- When you click the **Setup** link, the navigation bar contains the **Management Pack Access** link. Click this link.

- This will take you to the **Management Pack Access** page, which allows you to grant and remove access from all the management packs.

  – For Enterprise Manager Database Control, click the **Remove Access** radio button for the Diagnostic Pack and click **Apply**.

  – For Enterprise Manager Grid Control, click the appropriate check box for the Diagnostic Pack and click **Apply**.

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

Command-Line APIs

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

- The DBMS_WORKLOAD_REPOSITORY package is part of this pack.

- The DBMS_ADDM package is 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 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 the Diagnostic Pack. The following filter clause to any query on `DBA_STREAMS_TP_COMPONENT_STAT` shows Diagnostic-Pack-dependent data:

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

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

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

- All data dictionary views beginning with the prefix `DBA_HIST_` are part of this pack, along with their underlying tables.The only exception are the views: `DBA_HIST_SNAPSHOT`, `DBA_HIST_DATABASE_INSTANCE`, `DBA_HIST_SNAP_ERROR`, `DBA_HIST_SEG_STAT`, `DBA_HIST_SEG_STAT_OBJ`, and `DBA_HIST_UNDOSTAT`. They can be used without the Diagnostic 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, addmrtp.sql, addmrpti.sql, ashrpt.sql, ashrpti.sql, awrddrpt.sql, awrddrpi.sql, awrsqrpi.sql, awrsqrpt.sql, awrextr.sql, and awrload.sql, awrextr.sql, awrload.sql, awrinfo.sql, spawrrac.sql.

Oracle Diagnostics Pack Enterprise Manager Repository Views

- **Monitoring Views**

  – MGMT$BLACKOUT_HISTORY

  – MGMT$BLACKOUTS

  – MGMT$ALERT_ANNOTATIONS

  – MGMT$ALERT_NOTIF_LOG

  – MGMT$TARGET_METRIC_COLLECTIONS

  – MGMT$METRIC_COLLECTIONS

  – MGMT$TARGET_METRIC_SETTINGS

  – MGMT$AVAILABILITY_CURRENT

  – MGMT$AVAILABILITY_HISTORY

  – MGMT$ALERT_CURRENT

  – MGMT$ALERT_HISTORY

  – MGMT$METRIC_DETAILS

  – MGMT$METRIC_CURRENT

  – MGMT$METRIC_HOURLY

  – MGMT$METRIC_DAILY

- **Template Views**

  – MGMT$TEMPLATES

  – MGMT$TEMPLATE_POLICY_SETTINGS

  – MGMT$TEMPLATE_METRIC_COLLECTION

      –   MGMT$TEMPLATE_METRIC_SETTINGS

Oracle Provisioning and Patch Automation Pack

The Oracle Provisioning and Patch Automation Pack automates the deployment of software, applications, and patches for the database and underlying operating system. It makes critical data center operations easy, efficient and scalable resulting in lower operational risk and cost of ownership. The ability to provision the entire software stack that includes the operating system and the database, supplemented by comprehensive reporting tools make Oracle Provisioning and Patch Automation Pack an extremely significant entity in overall System Management space.

The Oracle Provisioning and Patch Automation Pack contains the following features:

- Automated patching for Oracle database products and the operating system
- Critical Patch Facility
- Software Image Library
- Bare metal OS provisioning
- Single instance and RAC provisioning
- Single click cluster scale up and scale down
- Single instance-to-RAC conversion
- CLI driven runtime
- Enterprise Security Advisor
- Provisioning and deployment reports

Oracle Tuning Pack

The Oracle Tuning Pack provides database administrators with expert performance management for the Oracle environment, including SQL tuning and storage optimizations. The Oracle Diagnostic Pack is a prerequisite product to the Oracle Tuning Pack. Therefore, to use the Tuning Pack, you must also have a Diagnostic Pack.

The Tuning Pack includes the following features:

- SQL Access Advisor
- SQL Tuning Advisor
- Automatic SQL Tuning
- SQL Tuning Sets
- SQL Monitoring
- Reorganize objects

In order to use the features listed above, you must purchase licenses for the Tuning Pack, with one exception: SQL Tuning Sets can be used if you have licensed either the Tuning Pack or Oracle Real Application Testing. A new initialization parameter, `CONTROL_MANAGEMENT_PACK_ACCESS`, is introduced to control access to the Diagnostic Pack and Tuning Pack in the database server. This parameter can be set to one of three values:

- `DIAGNOSTIC+TUNING`: Diagnostic Pack and Tuning Pack functionally is enabled in the database server.
- `DIAGNOSTIC`: Only Diagnostic Pack functionality is enabled in the server.

- `NONE`: Diagnostic Pack and Tuning pack functionally is disabled in the database server.

The Tuning Pack functionality can be accessed by the Enterprise Manager links as well as through the database server command-line APIs. The use of either interface requires licensing of the Tuning Pack

Enterprise Manager

To determine which links in Enterprise Manager Grid Control and Database Control are part of the Diagnostics Packs, click the **Setup** link on the top right-hand part of the Enterprise Manager Home page.

- When you click the **Setup** link, the navigation bar contains the **Management Pack Access** link. Click this link.

- This will take you to the Management Pack Access page, which allows you to grant and remove access from all the management packs.

    - For Enterprise Manager Database Control, click the **Remove Access** radio button for the Tuning Pack and click **Apply**.

    - For Enterprise Manager Grid Control, click the appropriate check box for the Tuning Pack and click **Apply**.

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

Command-Line APIs

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

- `DBMS_SQLTUNE`

- `DBMS_ADVISOR`, when the value of the `advisor_name` parameter is either SQL Tuning Advisor or SQL Access Advisor.

- `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.

Other Oracle Products

In addition to the options and packs described in this chapter, Oracle provides the following additional products for specific customer environments:

- Oracle Database Lite

- Oracle Programmer

- Oracle Secure Backup

Oracle Database Lite

Oracle Database Lite Client   Oracle Database Lite Client is a small general-purpose relational database used for mobile and embedded applications. Oracle Database Lite client can be used as a standalone database in embedded hardware and software

applications or may be used as the data store for disconnected mobile applications when used with the Oracle Database Lite Mobile Server.

Each user must purchase a Named User Plus license.

Oracle Database Lite Mobile Server   Oracle Database Lite Mobile Server is middle-tier infrastructure for mobile and disconnected applications that performs data synchronization and provides management for applications, users, and devices. Oracle Database Lite Mobile Server can use the Oracle Database Lite client as a data store for mobile and disconnected applications, providing efficient, reliable, and secure data management running locally on mobile and small-footprint devices (handhelds, notebooks, communicators, and so forth). The Lite Mobile Server supports scalable synchronization of data between devices and an Oracle Database.

Oracle Database Lite Mobile Server is licensed by CPU.

> **Note:**   When Lite Mobile Server is used with Lite Client, customers must purchase at least one CPU license for Lite Mobile Server and a Named User Plus license for each client user.

Oracle Programmer

Oracle Programmer is a separate Oracle product that provides a programmatic interface to any edition of Oracle Database for application programmers. Programmer provides a rich set of interfaces for developers who build enterprise applications that access and manipulate Oracle Database. This product is licensed separately from the Oracle Database products. Oracle Programmer is a family of the following products:

- Three embedded SQL-style interfaces: precompilers, SQL*Module, and SQLJ
- Two utilities to generate host-language bindings from database schemas: Object Type Translator and JPub

Oracle Secure Backup

Oracle Secure Backup provides tape backup management for the entire Oracle environment. You can use Oracle Secure Backup to back up Oracle databases and host file systems to tape through direct-attached or network-attached tape drives. Oracle Secure Backup provides centralized management and control over backup and restore operations.

Oracle Secure Backup is available in the following forms, each suitable for different development and deployment scenarios:

Oracle Secure Backup   For environments that consist of many servers, Oracle Secure Backup offers high performance data protection from server to tape. This protection is crucial for local and offsite storage of business-critical data.

Oracle Secure Backup Express   For environments that consist of a single server, Oracle Secure Backup Express offers the same tape backup functionality as Oracle Secure Backup, but is limited to a single host with one direct-attached tape drive.

A

Third-Party Licenses

This appendix contains licensing information about third-party products included with Oracle Database 11*g* Release 1 (11.1) and Oracle Exadata Storage Server Software. This appendix contains the following sections:

- Third-Party Product Licensing for Oracle Database
- Third-Party Product Licensing for Oracle Exadata Storage Server Software

Third-Party Product Licensing for Oracle Database

This section includes third-party license information for certain third-party products included with Oracle Database 11*g* Release 1 (11.1).

Third-Party Products Included with Oracle Database

Oracle acknowledges that the following third-party proprietary and open source software are used in the provided programs covered by this documentation.

The Apache Software License, Version 1.1

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. 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.

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lib/gssapi/generic/gssapi_err_generic.et

lib/gssapi/mechglue/g_accept_sec_context.c

lib/gssapi/mechglue/g_acquire_cred.c

lib/gssapi/mechglue/g_canon_name.c

lib/gssapi/mechglue/g_compare_name.c

lib/gssapi/mechglue/g_context_time.c

lib/gssapi/mechglue/g_delete_sec_context.c

lib/gssapi/mechglue/g_dsp_name.c

lib/gssapi/mechglue/g_dsp_status.c

lib/gssapi/mechglue/g_dup_name.c

lib/gssapi/mechglue/g_exp_sec_context.c

lib/gssapi/mechglue/g_export_name.c

lib/gssapi/mechglue/g_glue.c

lib/gssapi/mechglue/g_imp_name.c

lib/gssapi/mechglue/g_imp_sec_context.c

lib/gssapi/mechglue/g_init_sec_context.c

lib/gssapi/mechglue/g_initialize.c

lib/gssapi/mechglue/g_inquire_context.c

lib/gssapi/mechglue/g_inquire_cred.c

lib/gssapi/mechglue/g_inquire_names.c

lib/gssapi/mechglue/g_process_context.c

lib/gssapi/mechglue/g_rel_buffer.c

lib/gssapi/mechglue/g_rel_cred.c

lib/gssapi/mechglue/g_rel_name.c

lib/gssapi/mechglue/g_rel_oid_set.c

lib/gssapi/mechglue/g_seal.c

lib/gssapi/mechglue/g_sign.c

lib/gssapi/mechglue/g_store_cred.c

lib/gssapi/mechglue/g_unseal.c

lib/gssapi/mechglue/g_userok.c

lib/gssapi/mechglue/g_utils.c

lib/gssapi/mechglue/g_verify.c

lib/gssapi/mechglue/gssd_pname_to_uid.c

lib/gssapi/mechglue/mglueP.h

lib/gssapi/mechglue/oid_ops.c

lib/gssapi/spnego/gssapiP_spnego.h

lib/gssapi/spnego/spnego_mech.c

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DBI 1.20/DBD 1.15 from Tim Bunce

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Conversions between UTF32, UTF-16, and UTF-8. Source code file.

Author: Mark E. Davis, 1994.

Rev History: Rick McGowan, fixes & updates May 2001.

Sept 2001: fixed const & error conditions per mods suggested by S. Parent & A. Lillich.

June 2002: Tim Dodd added detection and handling of incomplete source sequences, enhanced error detection, added casts to eliminate compiler warnings.

July 2003: slight mods to back out aggressive FFFE detection.

Jan 2004: updated switches in from-UTF8 conversions.

Oct 2004: updated to use UNI_MAX_LEGAL_UTF32 in UTF-32 conversions.

CyberNeko HTML Parser 0.9.3

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SAX 2.0

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