

Oracle® Database

Licensing Information

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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 -vi for more information.

Oracle Database 10g 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:

- [Intended Audience](#)
- [Documentation Accessibility](#)
- [Related Documents](#)
- [Conventions](#)

Intended Audience

This book is intended for all purchasers of Oracle Database 10g.

Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible, with good usability, to the disabled community. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at

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Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

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TTY Access to Oracle Support Services

Oracle provides dedicated Text Telephone (TTY) access to Oracle Support Services within the United States of America 24 hours a day, seven days a week. For TTY support, call 800.446.2398.

Related Documents

For more information, see these Oracle resources:

- *Oracle Database New Features* 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.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

Convention	Meaning
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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](#)
- [General Licensing Information](#)

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 Real Application Clusters. Real Application Clusters 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 2000, Windows NT, Windows XP, and Windows Server 2003 (32-bit and 64-bit versions). 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 Data Guard—Redo Apply	N	N	Y	
Oracle Data Guard—SQL Apply	N	N	Y	
Rolling Upgrades—Patch Set, Database, and Operating System	N	N	Y	
Fast-start selectable recovery time	N	N	Y	
Comprehensive online schema reorganization/redefinition	N	N	Y	
Flashback Table	N	N	Y	
Flashback Database	N	N	Y	
Flashback Transaction Query	N	N	Y	
Block-level media recovery	N	N	Y	
Incremental backup and recovery	Y	Y	Y	SE1/SE: no optimized incremental backup
Parallel backup and recovery	N	N	Y	
Tablespace point-in-time recovery	N	N	Y	
Trial recovery	N	N	Y	
Oracle Fail Safe	N	Y	Y	Windows only
Scalability				
Oracle Real Application Clusters	N	Y	Y	Extra cost with EE, included with SE
Oracle Clusterware	N	Y	Y	
Automatic Workload Management	N	Y	Y	Requires RAC
Security				
Advanced Security Option	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	
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

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

Feature/Option	SE1	SE	EE	Notes
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
Duplexed backup sets	N	N	Y	
Database Resource Manager	N	N	Y	
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 Warehouse Builder Enterprise ETL	N	N	Y	Extra cost option
Oracle Warehouse Builder Data Quality	N	N	Y	Extra cost option
Oracle Warehouse Builder Connector—E-Business Suite	N	N	Y	Extra cost option
Oracle Warehouse Builder Connector—PeopleSoft	N	N	Y	Extra cost option
Oracle Warehouse Builder Connector—SAP R/3 Connector	N	N	Y	Extra cost option
Data Compression	N	N	Y	
Bitmapped index and bitmapped join index	N	N	Y	
Parallel query/DML	N	N	Y	
Parallel statistics gathering	N	N	Y	
Parallel index build/scans	N	N	Y	
Parallel Data Pump Export/Import	N	N	Y	
Transportable tablespaces, including cross-platform	N	N	Y	
Summary management—Materialized View Query Rewrite	N	N	Y	
Asynchronous Change Data Capture	N	N	Y	
Integration				
Oracle Streams	N	N	Y	SE1/SE: apply only
Messaging Gateway	N	N	Y	
Basic Replication	Y	Y	Y	SE1/SE: read-only, updateable materialized view
Advanced Replication	N	N	Y	Multi-master replication
Transparent Gateways	Y	Y	Y	Extra cost option
Networking				
Oracle Connection Manager	N	N	Y	
Infiniband Support	N	N	Y	
Content Management				
Oracle Spatial	N	N	Y	Extra cost 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 Standard Edition and Real Application Clusters (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. In addition, Automatic Storage Management (ASM) must be used to manage all database-related files, including datafiles, online logs, archive logs, control file, server parameter files, and the flash recovery area. Third-party volume managers and file systems are not supported for this purpose.

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 Clusterware Oracle Clusterware can be installed and used to protect all Oracle databases and third-party applications on the same cluster. At a minimum, one machine involved in the cluster must be 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.

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 a 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.

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.

For more information on Oracle Secure Backup Licensing, see

http://download-west.oracle.com/docs/cd/B19090_01/doc/backup.102/b25528/toc.htm

Restricted-Use Licensing The following restricted-use licenses are included with Oracle Database 10g in the editions indicated:

- A restricted-use license for Oracle Internet Directory (OID), a component of Oracle Identity and Access Management Suite, is included with all editions 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 Identity and Access Management Suite.
- For OS/390 implementations of Enterprise Edition, use of either Access Manager for CICS or Access Manager for IMS/TM is included.
- 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, iSQL*Plus, Ultra Search, Workflow, and Warehouse Builder, and may not be used or deployed for other purposes.

Rich: Preceding paragraph may need expansion.

General Licensing Information

The Oracle Standard Edition One, Standard Edition and Enterprise Editions of the database can be licensed using the Named User Plus metric or the Processor metric. The Personal and the Lite Editions can only be licensed using the Named User Plus metric.

Named User Plus This metric can be used in all environments. Different minimums apply depending on the Database edition:

- Standard Edition One requires a minimum of 5 Named User Plus licenses or the total number of actual users, whichever is greater. Oracle Standard Edition One may only be licensed on servers that have a maximum capacity of 2 single core processors. For multicore chips, the maximum number of cores per server is determined by multiplying the core processor licensing factors {as contained in the processor definition} by the number of cores. The result must be less than or equal to 2 and the total number of cores must be less than or equal to 4. A blade server that meets this criteria is also eligible for licensing this program.
- Standard Edition requires a minimum of 5 Named User Plus licenses or the total number of actual users, whichever is greater. Oracle Database Standard Edition can only be licensed on servers that have a maximum capacity of 4 single core processors. For multicore chips, the maximum number of cores per server is determined by multiplying the core processor licensing factors (as contained in the processor definition) by the number of cores. The result must be less than or equal to 4 and the total number of cores must be less than or equal to 8. Effective with the release of 10g, the Oracle Database Standard Edition product includes the Real Applications Clusters database option. The Real Applications Clusters option is not included with any Standard Edition versions prior to 10g. Customers who participate in Oracle's Update Subscription Service for the Standard Edition Database can upgrade to the 10g version of the product for the supported licenses. Also, Customers must use Oracle Cluster Ready Services as the clusterware; third party clusterware is not supported, AND Customers must use Automatic Storage Management to manage all data.
- The Enterprise Edition requires a minimum of 25 Named User Plus per Processor licenses or the total number of actual users, whichever is greater.

Processor This metric is used in environments where users cannot be identified and counted. The Internet is a typical environment where it is often difficult to count users. This metric can also be used when the Named User Plus population is very high and it is more cost effective for the customer to license the Database using the Processor metric. The Processor metric is not offered for Personal and Lite Editions.

When counting the number of processor licenses required, for a Sun UltraSPARC T1 processor with 4, 6 or 8 cores at 1.0 gigahertz or 8 cores at 1.2 gigahertz for only those servers specified on the Sun Server Table which can be accessed at

<http://oracle.com/contracts>

"n" cores shall be determined by multiplying the total number of cores by a factor of .25. For the purposes of counting the number of processors which require licensing for AMD and Intel multicore chips, "n" cores shall be determined by multiplying the total number of cores by a factor of .50. For the purposes of counting the number of processors which require licensing for all hardware platforms not otherwise specified in this section, a multicore chip with "n" cores shall be determined by multiplying "n" cores by a factor of .75. All cores on all multicore chips for each licensed program for each factor listed below are to be aggregated before multiplying by the appropriate

factor and all fractions of a number are to be rounded up to the next whole number. Notwithstanding the above, when licensing Oracle Standard Edition One or Standard Edition programs on servers with a maximum of 1 processor with 1 or 2 cores, only 1 processor shall be counted.

The metrics used to license any of the Enterprise Edition options must match the type and number of the metrics used to license the associated Enterprise Edition database.

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. Real Application Clusters 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 Real Application Clusters at no additional cost.

Oracle Advanced Security

Oracle Advanced Security provides transparent data encryption of data stored in the database, the encryption and optimized compression of disk-based backups of the database, and also network encryption for data traveling across the network between the database and client or mid-tier applications. In addition it provides a complete suite of strong authentication services to Oracle Database. Network encryption is implemented using industry-standard data encryption and data integrity algorithms. This feature provides a choice of algorithms and cipher strengths for deployment. Strong authentication services support a comprehensive suite of industry-standard third-party authentication options. The authentication options include single sign-on services to the Oracle Database by interoperating with existing authentication frameworks and two-factor authentication choices such as smart cards and token cards.

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 the Oracle Identity and Access Management Suite, which includes Oracle Internet Directory (OID). If you wish to use stronger authentication alternatives (such as Kerberos or PKI) for Enterprise User Security, you must license Oracle Advanced Security and the Oracle Identity and Access Management Suite. Any Oracle Advanced Security licenses purchased on or before January 31, 2004, have restricted use of the Oracle Identity and Access Management Suite to support enterprise user security. Please contact your Oracle sales representative for additional information.

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.

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 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.

Oracle On-Line Analytical Processing (OLAP)

Oracle OLAP is a scalable, high-performance calculation engine with fully integrated management and administration for delivering analytic applications. Fully integrated in the database, this option provides a complete set of analytic functions. Predictive analysis can be used, for example, to forecast market trends, predict product manufacturing requirements, and build enterprise budgeting and financial analysis systems. Using complex, multidimensional queries and calculations, information such as market shares and net present value can be derived. The Java OLAP API provides efficient object-orientation for building applications that require complex analytic queries.

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. Range, hash, list, and composite (range combined with hash and range combined with list) partitioning methods are supported.

Oracle Real Application Clusters

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

Oracle Spatial

Oracle Spatial provides advanced spatial analysis features for complex geographic information systems (GIS) applications, enterprise applications, and location-based services applications. It augments the Oracle Locator feature, which provides storage, analysis, and indexing of location data accessible through SQL and standard programming languages, supporting seamless integration of location data into enterprise applications, and use of any leading third-party GIS tool to access location data. Oracle Spatial advanced features include GeoRaster for storage, indexing, and analysis of image and gridded raster data, such as satellite imagery and remotely sensed data; a network data model that allows users to model and analyze link-node networks (graphs) for applications; a topology data model and schema to persistently manage topology; a fully functional geocoding engine and routing engine; and location-based analysis functions for business intelligence applications, including location-based classification, binning, association, and correlation. Oracle Spatial also supports spatial data manipulation and analysis such as buffer generation, area/distance calculations, linear referencing, and more.

Oracle Warehouse Builder Enterprise ETL Option

The Enterprise ETL option enables large scale, complex ETL deployments. Developers can incorporate advanced functionality such as retaining history for dimensions, reusing mapping code, performing interactive lineage and impact analysis, and defining custom types of objects in the repository. This option also enables the rapid movement of large amounts of data, and the construction of advanced process flows.

[Table 2–1](#) lists the functionality available with the Enterprise ETL option. The functionality is grouped into areas. For example, the area *Schema Modeling* includes functionality for slowly changing dimensions and business intelligence.

Table 2–1 Enterprise ETL Option

Area and Functionality	Comments
Schema Modeling	
Slowly changing dimensions	Includes support for SCD types 1,2, and 3.
Business intelligence	Supports Oracle BI Beans via presentation templates.
Sources and Targets	
XML file as target	Supported via the flat file operator.
ETL Design	
Advanced ETL features	Includes the following ETL features: transportable modules, multiple configurations, and pluggable mappings. Includes the following operators associated with reusing mapping code: pluggable mapping, pluggable mapping input signature, pluggable mapping output signature.
Real Applications Cluster (RAC) support	Includes maintaining the Warehouse Builder design environment in a Real Applications Cluster environment. Without the Enterprise ETL option, you can install the Warehouse Builder repository in a Real Applications Cluster environment for the limited purposes of executing in that environment.
Target load ordering	For mappings with multiple targets, includes functionality to specify the order in which the targets are loaded.
Transformations	Seeded spatial and streams transformations.

Table 2–1 (Cont.) Enterprise ETL Option

Area and Functionality	Comments
Process flows	Includes the following advanced process flow functionality: <ul style="list-style-type: none"> ▪ Activity templates ▪ Variables support: assigning and passing variables and using the Assign and Set Status activities ▪ Looping activities such as For Loop and While Loop ▪ Route and Notification activities
Metadata Management	
Lineage and impact analysis	Includes interactive analysis available in the Design Center.
Change propagation	Includes automatic propagation of property changes to impacted objects via the Lineage and Impact Analyzer.
Extensibility	Includes project based and public based user defined objects, user defined associations, and user defined modules. Includes creating icon sets and assigning custom icons to objects.
Deployment and Execution	
Schedules	Includes functionality to schedule the execution of mappings and process flows.
Business intelligence deployment targets	Includes direct deployment to the Discoverer End User Layer (EUL). Includes deployment to the Oracle BI Beans catalog.

Oracle Warehouse Builder Data Quality Option

The Data Quality option enables you to convert raw data into quality information. Developers and data librarians can gain insight into their data and identify previously unknown data quality problems. Subsequently, developers can define rules and generate mappings that correct the data. Based on the data rules, developers can also create data auditors to ensure the quality of incoming data on a repeated basis.

[Table 2–2](#) lists the functionality available in the Data Quality option.

Table 2–2 Data Quality Option

Area and Functionality	Comments
Data Profiling	
Data profiling	Includes functionality for data profiling and data drill-down.
Data rules	Includes functionality for data rule derivation and data rule profiling. Includes support for custom and predefined data rules and support for apply data rules to data objects.
Data corrections	Includes the generation of mappings that correct data based on data rules.
ETL Design	
Process flows	Includes the use of the Data Auditor Monitor activity in the Process Flow editor.

Oracle Warehouse Builder Connector—E-Business Suite

The Warehouse Builder Connector to E-Business Suite provides access to the technical and business metadata within Oracle E-Business Suite. Subsequently, you can build mappings and process flows that either source or target Oracle E-Business Suite. The connector also facilitates deployment to Oracle Concurrent Manager and access to Oracle E-Business Suite at execution-time.

Oracle Warehouse Builder Connector—PeopleSoft

With Warehouse Builder Connector to PeopleSoft, you can connect to and then extract data and metadata from PeopleSoft applications. Subsequently, you can include PeopleSoft objects as sources or targets in Warehouse Builder mappings, create process flows, and generate SQL code. This connector can operate with non-Oracle databases after you establish the appropriate transparent gateways to those databases.

Oracle Warehouse Builder Connector—SAP R/3 Connector

With the Warehouse Builder Connector to SAP R/3, you can connect to and then extract data and metadata from SAP R/3. You can access both the technical and business metadata in the SAP R/3 application. Subsequently, you can include SAP R/3 objects in Warehouse Builder mappings and process flows and generate ABAP code. This connector supports transporting of ABAP code and the use of substitution variables.

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.

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

In order to use the features listed above you must install the Java console version of Enterprise Manager, which you can find in the `/companion` directory of the installation medium. The use of this interface requires licensing of the Change Management Pack.

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 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 Provisioning 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_FILESYSTEMS
 - 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 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)
- 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

In order to use the features listed above, you must purchase licenses for the Diagnostic Pack. The Diagnostics 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 will disable all the links and tabs associated with the Diagnostics Pack in Enterprise Manager. All the disabled links and tabs are part of the Diagnostics Pack and therefore require pack license.

Command-Line APIs

Diagnostics 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_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 is part of this pack.
- All data dictionary views beginning with the prefix DBA_HIST_ are part of this pack, along with their underlying tables.
- 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, awrrpt.sql, awrrpti.sql, addmrpt.sql, addmrpti.sql, ashrpt.sql, ashrpti.sql, awrddrpt.sql, awrddrpi.sql, awrsqrpi.sql, awrsqrpti.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 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
- SQL Tuning Sets
- Reorganize objects

In order to use the features listed above, you must purchase licenses for the Tuning Pack. 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 will disable 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. Use of the following PL/SQL packages requires a license for the Oracle Tuning Pack:

- `DBMS_SQLTUNE`
- `DBMS_ADVISOR`, when the value of the `advisor_name` parameter is either `SQL Tuning Advisor` or `SQL Access Advisor`.
- 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 two additional products for specific customer environments.

Oracle Database Lite

Oracle Database Lite provides efficient, reliable, and secure data management for applications running locally on mobile and small-footprint devices (handhelds, laptops, communicators, and so forth). Oracle Database Lite supports scalable synchronization of data between devices and any Oracle Database while offering complete management of users, devices, and applications. Oracle Database Lite requires a minimum of one Named User Plus license or the total number of actual users, whichever is greater.

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.

For more information on Oracle Secure Backup Licensing, see

http://download-west.oracle.com/docs/cd/B19090_01/doc/backup.102/b25528/toc.htm

Third-Party Licenses

This appendix contains the following sections:

- [Third-Party Products Included with Oracle Database](#)
- [Third-Party Products Included with Sun Microsystems Products](#)

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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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