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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

<http://www.oracle.com/accessibility/>

Accessibility of Code Examples in Documentation

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.

Accessibility of Links to External Web Sites in Documentation

This documentation may contain links to Web sites of other companies or organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these Web sites.

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.
<code>monospace</code>	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](#)
- [Special-Use Licensing](#)

The Oracle Database Product Family

Oracle Database is available in four 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 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 the features that are not available with Standard Edition or Standard Edition One. 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) for the features you need in your business.

Table 1-1 Features Not Available with Oracle Database Standard Edition or Standard Edition One

Area and Feature	Comments
High Availability	
Oracle Data Guard	Data Guard provides a comprehensive set of services that create, maintain, manage, and monitor one or more standby databases to enable a production Oracle Database to survive disasters and data corruption.
Fast-start fault recovery	This feature provides fast and predictable recovery from system failures.
Online operations	The following online operations are not included with Standard Edition or Standard Edition One: <ul style="list-style-type: none"> ▪ Online index maintenance ▪ Online table organization ▪ Online table redefinition
Backup and recovery	The following backup and recovery features are not included with Standard Edition or Standard Edition One: <ul style="list-style-type: none"> ▪ Block-level media recovery ▪ Parallel backup and recovery ▪ Change-aware incremental backups ▪ Duplexed backup sets (backup sets can be written to multiple devices in parallel) ▪ Point-in-time tablespace recovery (a tablespace can be recovered up to a specified point in time after a failure or inadvertent transaction execution) ▪ Trial recovery (redo is applied in memory only but is not written to disk and is easily rolled back) <p>The following backup and recovery features require the Oracle Advanced Security option if you are backing up to disk:</p> <ul style="list-style-type: none"> ▪ RMAN Backup Encryption ▪ Unused Block Compression <p>Please refer to "Oracle Label Security" on page 2-2.</p>
Oracle Flashback features	The following Oracle Flashback features are not part of Standard Edition or Standard Edition One: <ul style="list-style-type: none"> ▪ Oracle Flashback Table ▪ Oracle Flashback Database ▪ Oracle Flashback Transaction Query ▪ Restore Points

Table 1–1 (Cont.) Features Not Available with Oracle Database Standard Edition or Standard Edition One

Area and Feature	Comments
Security	
Oracle Advanced Security	This option is described in " Oracle Advanced Security " on page 2-2.
Oracle Label Security	This option is described in " Oracle Label Security " on page 2-2.
Virtual Private Database	This feature provides functionality to create security policies that implement row-level security.
Fine-grained auditing	This features allows the monitoring of database access based on the content of the data accessed.
Enterprise User Security	This features allows the definition of enterprise users and roles.
N-tier authentication authorization	This feature preserves client identity throughout all tiers.
Manageability	
Oracle Change Management Pack	This pack is described in " Oracle Change Management Pack " on page 2-3.
Oracle Configuration Management Pack	This pack is described in " Oracle Configuration Management Pack " on page 2-6.
Oracle Diagnostic Pack	This pack is described in " Oracle Diagnostic Pack " on page 2-4.
Oracle Tuning Pack	This pack is described in " Oracle Tuning Pack " on page 2-6.
Database Resource Manager	Database Resource Manager gives Oracle Database more control over resource management decisions, circumventing problems arising from inefficient operating system management.
VLDB, Data Warehousing, Business Intelligence	
Oracle Partitioning	This option is described in " Oracle Partitioning " on page 2-1.
Oracle OLAP	This option is described in " Oracle On-Line Analytical Processing (OLAP) " on page 2-3.
Oracle Data Mining	This option is described in " Oracle Data Mining " on page 2-2.
Data compression	This feature provides the ability to compress tables and partitions.
Bitmapped index and bitmapped join index	This feature provides an index type commonly used in data warehouses for columns with low cardinality, such as 'Y' or 'N', to dramatically improve performance gains in a data warehouse application.
Export transportable tablespace	Import transportable tablespace, including cross-platform transport, is included with Standard Edition and Standard Edition One, but export transportable tablespace is not included.
Asynchronous Change Data Capture	This feature provides a framework for capturing change data, publishing it, and enabling applications to subscribe to the change data in a controlled fashion. Change capture occurs asynchronously based on the information in the Oracle redo logs.
Summary management	Summary management consists of mechanisms to define materialized views and dimensions, refresh and query rewrite mechanisms, and a collection of materialized view analysis and advisory functions and procedures in the DBMS_OLAP package.
Parallel Operations	
Parallel query	Oracle Database transparently distributes query execution across multiple processes, resulting in excellent performance.
Parallel DML	This feature no longer requires the Oracle Partitioning option. DML operations are transparently divided across multiple processes.
Parallel index build	Indexes can be created using parallel processes, significantly improving performance of the operation.

Table 1–1 (Cont.) Features Not Available with Oracle Database Standard Edition or Standard Edition One

Area and Feature	Comments
Parallel statistics gathering	--
Parallel Data Pump export and import	The new Data Pump Export and Import utilities can each be run in parallel, resulting in better performance in loading and unloading data and metadata.
Parallel text index creation	--
Parallel backup and recovery	--
Information Integration	
Oracle Streams	Message queuing and apply features of Oracle Streams are available in Standard Edition and Standard Edition One, but change capture is available only in Enterprise Edition.
Advanced Replication (multimaster)	Basic replication (which is available with Standard Edition and Standard Edition One) provides support for read-only and updatable materialized views (for replication) and multitier materialized views. Standard Edition and Standard Edition One databases can also act as a master site for materialized views, but cannot participate in multimaster replication.
Oracle Messaging Gateway	Oracle Messaging Gateway consists of an administration package for gateway configuration and management and a gateway agent that processes propagation.
Networking	
Connection Manager	This feature provides multiplexing, multiprotocol connectivity, and network access control.
Multiprotocol connectivity	This feature bridges Oracle Net Services communities of users that use different network protocols such as SPX/IPX, TCP/IP, or LU6.2.
Content Management	
Oracle Spatial	This option is described in " Oracle Spatial " on page 2-3.

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, spfiles, and the flash recovery area. Third-party volume managers and file systems are not supported for this purpose.

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.

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 Management, 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 Management.
- 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. This embedded version is provided solely to support Oracle Enterprise Manager (Database and Grid Control), Advanced Queuing Servlet, iSQL*Plus, Ultra Search, and Workflow, and may not be used or deployed for other uses.

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. The Personal Edition includes all options except Real Application Clusters at no additional cost.

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 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 Data Mining

Oracle Data Mining enables companies 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 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 provide 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.

Users wishing to use Enterprise User Security in Oracle Database Enterprise Edition no longer need to license the Oracle Advanced Security Option for password-based authentication. However, they must license the Oracle Identity Management Option, which includes Oracle Internet Directory (OID). Users wishing to use stronger authentication alternatives (such as Kerberos or PKI) for Enterprise User Security must license Oracle Advanced Security and Oracle Identity Management. Oracle Identity Management is an option to the Oracle Application Server 10g Standard Edition product. Any Oracle Advanced Security licenses purchased on or before January 31, 2004, have restricted use of the Oracle Identity Management option to support enterprise user security. Please contact your Oracle sales representative for additional information.

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 Management. 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 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 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 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 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.

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`.

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
- Patch Database and View Patch Cache
- Patch staging
- Clone Database
- Clone Oracle Home
- 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.

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

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 Enterprise Manager Repository Views

- **Inventory Views**
 - MGMT\$TARGET
 - MGMT\$TARGET_TYPE
 - MGMT\$TARGET_TYPE_DEF
 - MGMT\$TARGET_ASSOCIATIONS
 - MGMT\$TARGET_MEMBERS
 - MGMT\$TARGET_FLAT_MEMBERS
 - MGMT\$TARGET_TYPE_PROPERTIES
 - MGMT\$TARGET_PROPERTIES
 - MGMT\$METRIC_CATEGORIES
 - MGMT\$GROUP_FLAT_MEMBERSHIPS

- **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
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Other Oracle Products

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

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 Database Lite

Oracle Database Lite provides efficient, reliable, and secure data management for applications running locally on mobile and small-footprint devices (handhelds,

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DBI 1.20/DBD 1.15 from Tim Bunce

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