

**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 11g 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 11g.

## Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible to all users, including users that are disabled. 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.

### Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/support/contact.html> or visit <http://www.oracle.com/accessibility/support.html> 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
<b>boldface</b>	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.
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](#)

## 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 purposes. This section describes the Oracle Database editions. The database options and associated 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. The current version of Oracle Database XE is Oracle Database 10g Release 2.

**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. The current version of Oracle Database XE is Oracle Database 10g Release 2.



**Table 1–1 Feature Availability for Oracle Database Editions**

<b>Feature/Option</b>	<b>SE1</b>	<b>SE</b>	<b>EE</b>	<b>Notes</b>
<b>High Availability</b>				
Oracle Fail Safe	Y	Y	Y	Windows only
Oracle RAC One Node	N	N	Y	Extra cost option
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	
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	
Automatic Block Repair	N	N	Y	Requires Active Data Guard option
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	
Oracle Total Recall	N	N	Y	Extra cost option
<b>Scalability</b>				
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

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

<b>Feature/Option</b>	<b>SE1</b>	<b>SE</b>	<b>EE</b>	<b>Notes</b>
<b>Performance</b>				
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
Database Smart Flash Cache	N	N	Y	Solaris and Oracle Linux only
Support for Oracle Exadata Storage Server Software	N	N	Y	
<b>Security</b>				
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	
Oracle Database Vault	N	N	Y	Extra cost option
Secure External Password Store	N	N	Y	
<b>Development Platform</b>				
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
<b>Manageability</b>				
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
Oracle Real Application Testing	N	N	Y	Extra cost option
Database Resource Manager	N	N	Y	
Instance Caging	N	N	Y	
SQL Plan Management	N	N	Y	

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

Feature/Option	SE1	SE	EE	Notes
<b>VLDB, Data Warehousing, Business Intelligence</b>				
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
Basic Table Compression	N	N	Y	
Deferred Segment Creation	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	Y	
Parallel index build/scans	N	N	Y	
Parallel Data Pump Export/Import	N	N	Y	
In-memory Parallel Execution	N	N	Y	
Parallel Statement Queuing	N	N	Y	
Parallel capture and apply via XStream	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	
<b>Integration</b>				
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
Messaging Gateway	N	N	Y	
<b>Networking</b>				
Oracle Connection Manager	N	N	Y	Available via a custom install of the Oracle Database client, usually installed on a separate machine  See <a href="#">"Oracle Connection Manager"</a> on page 1-7 for more information
Infiniband Support	N	N	Y	
<b>Content Management</b>				
Oracle Spatial	N	N	Y	Extra cost option
Semantic Technologies (RDF/OWL)	N	N	Y	Requires Oracle Spatial and the Oracle Partitioning option

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

Feature/Option	SE1	SE	EE	Notes
<b>Spatial and Location Data</b>				
Parallel spatial index builds	N	N	Y	
Multimaster replication of SDO_GEOMETRY objects	N	N	Y	Single master/materialized view replication for SDO_GEOMETRY objects is supported with both Standard Edition and Enterprise Edition
Partitioned spatial indexes	N	N	Y	Requires 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.

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.

Oracle Automatic Storage Management is required for creating and managing all Oracle database file types. Raw volumes, partitions, or third-party cluster file systems are not supported for storing Oracle database files with Oracle Standard Edition and Oracle RAC. Refer to *Oracle Automatic Storage Management Administrator's Guide* for a comprehensive list of all database file types.

ASM Cluster File System (ACFS) or a local OS file system must be used to store all non-database files. No Oracle-maintained copies of any non-database files can exist in any other locations, with the following exceptions:

1. Customers who want to manually script maintenance of a standby database can create a second copy of their archive logs outside of Oracle ASM on a local file system only, designated by the `LOG_ARCHIVE_DEST_n` parameter.
2. 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 Database Vault and Oracle9i Database Release 2 (9.2.0.8)**

A separate Oracle Database 11g can be installed and used to administer Oracle Database Vault when installed with Oracle9i 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 11g 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 11g Release 1 or higher. Partial functionality of Oracle Real Application Testing is available to customers wishing to upgrade from Oracle9i Database Release 2 or Oracle Database 10g.

The functionality available on Oracle9i Database Release 2 is as follows:

- **Database Replay:** Only the Workload Capture feature is supported, and the captured workload may only be replayed only on Oracle Database 11g. This

feature can be used only to facilitate upgrades from Oracle 9i Database Release 2 to Oracle Database 11g.

The functionality available on Oracle Database 10g Release 2 is as follows:

- **Database Replay:** Only the Workload Capture feature is supported, and the captured workload may be replayed only on Oracle Database 11g. This feature can be used only to facilitate upgrades from Oracle Database 10g Release 2 to Oracle Database 11g.
- **SQL Performance Analyzer:** Only the Remote SQL Test Execute and SQL Capture into SQL Tuning Set features are supported. These features can be used only to facilitate upgrades from Oracle 9i Database Release 2 and Oracle Database 10g Release 1 to Oracle Database 10g Release 2 or higher. When upgrading to Oracle Database 10g Release 2 from earlier releases (Oracle 9i Database or Oracle Database 10g Release 1), Oracle Database 11g is needed to remotely execute SQL on the target database (that is, Oracle Database 10g Release 2). Real Application Testing licensing is required for both systems, Oracle Database 10g Release 2 and Oracle Database 11g.

### **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.

For more information, refer to *Oracle Secure Backup Licensing Information*.

### **Oracle Wallet**

An Oracle Wallet is a PKCS#12 container used to store authentication and encryption keys. The database secure external password store feature stores passwords in an Oracle Wallet for authentication to the Oracle database. Oracle Advanced Security uses the Oracle Wallet to store credentials for PKI authentication to the Oracle Database, network encryption, and transparent data encryption. Oracle Wallet Manager is an

application that wallet owners can use to manage and edit Oracle Wallets. Oracle Wallets can be deployed on clients, middle tiers, and database servers free of charge. However, the following features that use an Oracle Wallet in turn require licensing of the Oracle Advanced Security Option: PKI credentials for authentication to Oracle Database, network encryption (SSL/TLS) to the Oracle database from middle tiers and database clients, and transparent data encryption master keys. Oracle Advanced Security option is not required when configuring wallets to secure communication between the Oracle database and Oracle Internet Directory as part of the enterprise user security feature of 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 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 Advanced Security and Enterprise User Security**

If you wish to use Enterprise User Security in Oracle Database Enterprise Edition, you no longer need to license the Oracle Advanced Security Option for password-based authentication. However, you must license 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 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.

### **XStream**

XStream, which is built on the infrastructure of Oracle Streams, provides application programming interfaces (APIs) that enable client applications to receive real-time data changes from an Oracle database (using XStream Out APIs) and to send real-time data changes to an Oracle database (using XStream In APIs). These data changes can be shared between Oracle databases and other systems, such as filesystems and non-Oracle databases. XStream is licensed via the Oracle GoldenGate product. You must purchase a license for this product before using the XStream APIs. Please contact your Oracle sales representative for additional information.

### **Oracle Cluster File System--Cloud Edition**

A restricted use license to use Oracle Cluster File System--Cloud Edition is included with all editions of the database specifically for storing Oracle database files, Oracle software binaries and homes, Oracle software administrative files, and Oracle software diagnostic files. Customers wishing to store their own data files, or non-Oracle software files including data files, binaries, administrative files, and diagnostic files in Oracle Cluster File System--Cloud Edition, must purchase an Oracle Cluster File System--Cloud Edition license.

**Oracle Clusterware**

Oracle Clusterware provides cluster membership and high availability services. It provides the cluster membership for features such as Oracle Real Application Clusters and Oracle ASM. It includes the following features:

- Application monitoring, restart, and failover
- Cluster membership services
- Server monitoring and fencing
- Single Client Access Name (SCAN)
- Server Pools
- Grid Naming Services

Oracle Clusterware can be used to protect any application (restarting or failing over the application in the event of a failure), free of charge, if one or more of the following conditions are met:

- The server OS is supported by a valid Oracle Unbreakable Linux support contract.
- The product to be protected is either:
  - Any Oracle product (e.g. Oracle Applications, Siebel, Hyperion, Oracle Database EE, Oracle Database XE)
  - Any third-party product that directly or indirectly stores data in an Oracle database
- At least one of the servers in the cluster is licensed for Oracle Database (SE or EE)

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

**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 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 of Oracle Berkeley DB is included for use with the Oracle Grid Infrastructure only.



## 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.

This section describes the following database options:

- [Oracle Active Data Guard](#)
- [Oracle Advanced Compression](#)
- [Oracle Advanced Security](#)
- [Oracle Data Mining](#)
- [Oracle Database Vault](#)
- [Oracle In-Memory Database Cache](#)
- [Oracle Label Security](#)
- [Oracle On-Line Analytical Processing \(OLAP\)](#)
- [Oracle Partitioning](#)
- [Oracle RAC One Node](#)
- [Oracle Real Application Clusters \(Oracle RAC\)](#)
- [Oracle Real Application Testing](#)

- [Oracle Spatial](#)
- [Oracle Total Recall](#)

## 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 datatypes, 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
- Automatic Block Repair

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 SecureFiles Compression. Deduplication provides the ability to automatically eliminate redundant copies of SecureFiles data. RMAN offers multiple backup compression levels, to meet the needs of various environments, including faster compression and better compression ratio choices. Note that the `RMAN DEFAULT COMPRESS` option does not require Advanced Compression. With Advanced Compression, Data Pump exports can now be compressed to reduce disk space requirements. Note that the `COMPRESSION=METADATA_ONLY` option for Data Pump does not require Advanced Compression, and is the default behavior. 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 (`COMPRESSION=METADATA_ONLY` does not require the Advanced Compression option)
- Multiple RMAN Compression Levels (`RMAN DEFAULT COMPRESS` does not require the Advanced Compression option)

- OLTP Table Compression
- SecureFiles Compression and Deduplication

## Oracle Advanced Security

Oracle Advanced Security provides transparent data encryption of data stored in the database, the encryption 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.

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
- Hardware Security Module (HSM) TDE Master Key Protection
- Database strong authentication support (PKI, Kerberos, Radius)
- Smartcard support (PKCS#11)
- Transport Layer Security (TLS) Support
- Native network encryption
- SSL/TLS network encryption
- SSL acceleration
- Certificate Revocation List (CRL) support

## 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 10g or later. However, it has also been provided for earlier releases as well, including Oracle9i 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 Oracle9i 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 from an Oracle Database to the application tier. Applications perform read/write operations on the cache tables using standard SQL with automatic persistence, transactional consistency, and data synchronization with the Oracle database.

Oracle In-Memory Database Cache includes the following features:

- Data access using PL/SQL, JDBC, ODBC, ttClasses, OCI, and Pro\*C/C++ interfaces
- Transaction Log API (XLA) for change notification
- In-memory Database Cache Grid
- Automatic data synchronization with the Oracle database
- Transactional replication between the in-memory cache databases
- Automated failure detection and database failovers
- TimesTen Extension for Oracle SQL Developer
- TimesTen Plug-in for Oracle Enterprise Manager

## 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 datatypes 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 provide 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 RAC One Node

Oracle RAC One Node is the one-node version of Oracle Real Application Clusters (Oracle RAC). It enables customers to standardize on a single deployment model for all their database needs. Oracle RAC One Node makes the database highly available in the presence of computer hardware failures, software failures, or planned software maintenance events. In the event of failures, the database instance is restarted on an available server in the cluster and the client connections are moved to the new instance. Oracle RAC One Node can be online upgraded to full Oracle RAC (RAC license required) in order to scale to multiple servers.

Oracle RAC One Node includes the following features:

- Database Cold Failover to another node in the cluster in case of server or instance failure
- Online migration of the database instance to another server
- Support for online rolling upgrades of the database, grid infrastructure, and OS homes
- Online upgrade to Oracle Real Application Clusters
- Policy-managed Server Pools
- Quality of Service Management (for use with Oracle Exadata Database Machine only)

## 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 enables multiple servers to mount a single databases, providing 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 also supports a single-system image for ease of management.

Oracle Real Application Clusters includes the following features:

- Real Application Clusters
- Connection Load Balancing
- Fast Connection Failover
- Hot Cluster Failover
- Includes all the capabilities of Oracle RAC One Node

## 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 Oracle 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.

In addition, the use of the 'Replay Compare Period Report' requires a license of Oracle Diagnostics Pack.

### 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 use of the `DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT()` function also requires a license of Oracle Diagnostics Pack.

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

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; location-based analysis functions for business intelligence applications, including location-based classification, binning, association, and correlation; and support for 3D and point cloud data used in visualization, city modeling, simulations and Lidar-based map production. Oracle Spatial also supports spatial data manipulation and analysis such as buffer generation, area/distance calculations, linear referencing, and more.

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**Note:** Oracle Locator, a feature of Oracle Database 11g, 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*.

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Oracle Spatial also includes Semantic database features including support for W3C Resource Description Framework (RDF) triple storage, indexing and querying, Web Ontology Language (OWL), ontology management, and semantic inferencing.

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**Note:** The Semantic database features in Oracle Spatial require the Oracle Partitioning option.

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The Oracle Spatial option includes the following features:

- Selected Spatial Functions, including 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, 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, Querying (RDF/OWL Support), and ontology management

## Oracle Total Recall

Oracle Total Recall provides the ability to transparently track and archive historical changes to all data stored in an Oracle database. History data is stored in a secure and highly optimized storage and can be accessed in a seamless manner using Flashback Queries. With Total Recall, you can enable history tracking on tables instantaneously and retain the history data any length of time. In addition, Total Recall provides for easier manageability by automating purge of historical data based on specified retention policy. History tracking is non-intrusive and completely transparent to applications. Flashback queries are supported across most DDL changes; complex DDL changes are accommodated with the Associate/Disassociate feature.

The Oracle Total Recall option includes the following features:

- Flashback Data Archive
- Associate/Disassociate

## 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, Desktop Widgets, 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 Pack](#)
- [Oracle Diagnostics Pack](#)
- [Oracle Provisioning and Patch Automation Pack](#)

- [Oracle Tuning Pack](#)

## Oracle Change Management Pack

Oracle Change Management Pack enables administrators to evaluate, plan, and implement database schema changes. Using Oracle 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. Oracle 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.

Oracle Change Management Pack includes the following features:

- Dictionary Baselines
- Dictionary Comparisons
- Dictionary Synchronizations
- Realtime Schema Change Tracking
- Reverse Engineering Dictionary objects
- Copying Dictionary Object
- Object Definition Update
- Evaluate Change Impact
- Clone and Propagate Schema

### Enterprise Manager

The following licensed pages and links in Enterprise Manager apply to Oracle Change Management Pack.

From the Enterprise Manager Home page, select the **Schema** property page. In the Change Management section, the following links and associated pages are licensed as part of the pack:

- **Dictionary Baselines:** All links, buttons, and drilldowns on this page are licensed features of this pack.
- **Dictionary Comparisons:** All links, buttons, and drilldowns on this page are licensed features of this pack.
- **Dictionary Synchronizations:** All links, buttons, and drilldowns on this page are licensed features of this pack.

### Command-Line APIs

The following API is licensed under Oracle Change Management Pack:

- `DBMS_METADATA_DIFF`

### init.ora Parameters

The use of the following `init.ora` parameter is licensed under Oracle Change Management Pack:

- `ENABLE_DDL_LOGGING`: when set to TRUE (default: FALSE)

## Oracle Configuration Management Pack

The Configuration Management Pack for Oracle Database automates the time-consuming, costly, and often error-prone process of software configuration, software and hardware inventory tracking, patching, policy management, and compliance, ensuring consistency across deployments. You can access the Configuration Management Pack for Oracle Database functionality through Enterprise Manager licensed links and by installing the Configuration Change Console and Application Configuration Console. All three of these components comprise the features provided by the Configuration Management Pack for Oracle Database.

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**Note:** To obtain all features of the Configuration Management Pack for Oracle Database, you need to enable the Configuration Management Pack for Non-Oracle Systems in Grid Control for the host on which you have the licensed Configuration Management Pack for Oracle Database. If you already have the licensed Pack for Oracle Database, you are entitled to the Configuration Management Pack for Non Oracle Systems for the host on which you have the Configuration Management Pack for Oracle Database.

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Oracle Configuration Management Pack includes the following features:

- Database and host configuration management
- Patching
- Policy and security management
- Policy groups
- Deployments/installations, including patch-level
- Client system analyzer
- Security at a glance
- Real-time configuration change detection
- Application configuration management

Any and all methods of accessing Oracle Configuration Management Pack functionality, whether through Enterprise Manager Console, Desktop Widgets, command-line APIs, or direct access to the underlying data, requires an Oracle Configuration Management Pack license.

### Enterprise Manager

The following licensed pages and links in Enterprise Manager apply to Oracle Configuration Management Pack:

- **Grid Control Home page:**
  - All links in the **All Targets Policy Violations** section
  - Database, Hardware, and Operating System related information in the **Deployments Summary** section
  - All links in the **Security Policy Violations** section
  - All links in the **Critical Patch Advisories for Oracle Homes** section

- From the **Grid Control Home** page, click the **Targets** tab, then the **Databases** sub-tab. On the **Databases** page, the Policy Violations links are licensed as part of the pack.
- From the **Grid Control Home** page, click the **Deployments** tab. On the **Deployments** page, the following items are licensed as part of the pack:
  - All links in the **Configuration** and **Client Configurations** sections
- From the **Grid Control Home** page, select the **Compliance** tab to display the **Policy Violations** page, which is grouped in the **Violations** sub-tab. All links, sub-navigation tabs, and features available on or linked to from the Grid Control **Policies Violations** page for policies related to databases and hosts are licensed as part of this pack.
- From the **Grid Control Home** page, select the **Compliance** tab, then the **Policy Groups** sub-tab. On the Grid Control **Policy Group Evaluation Results** page, all links and features are licensed as a part of this pack.
- From the **Grid Control Home** page, select the **Compliance** tab, then the **Security at a Glance** sub-tab. On the Grid Control **Security at a Glance** page, all links and features are licensed as a part of this pack.
- From the **Grid Control Hosts** page, click a specific host to display the **Host Home** page. The following links are licensed as part of the pack:
  - All links in the **Security** section
  - Under **Related Links**, the following links are licensed:
    - \* **Deployments**
    - \* **Metric and Policy Settings**
- From the **Host Home** page, click the **Targets** tab. The following links and columns are licensed:
  - **Policy Violations** and associated links
  - **Compliance Score (%)**
- From the **Host Home** page, click the **Configuration** tab. The following buttons are licensed:
  - Save
  - History
  - Compare Configuration
  - Compare to Multiple Configurations
- From the **Grid Control Home** page, click the **Targets** tab, then select the **Systems** sub-tab. On the **Systems** page, the following items are licensed as part of the pack:
  - **Policy Violations** links
- From the **Systems** page, click any system **Name**. On the **System Home** page, everything is licensed as part of the pack except for the Status and Alerts sections.
- From the **Grid Control Home** page, click the **Targets** tab, then select the **Groups** sub-tab. On the **Groups** page, the following items are licensed as part of the pack:
  - **Policy Violations** links
- From the **Groups** page, click any group **Name**. On the **Group Home** page, everything is licensed as part of the pack except for the Status and Alerts sections.

- From the **Groups Home page**, click the **Administration** tab. The following links and features are licensed features of the pack:
  - **Hardware and Operating Systems** related information in the **Deployments Summary** section
  - **Host Operating System and Hardware Summaries** selection for the **Configuration Searches** section
- Click the **Setup** link on the upper right corner of the Enterprise Manager console, then click the **Monitoring Templates** link. On the **Monitoring Templates** page, click any Name. The **Policies** sub-tab on the **View Monitoring Template** page is a licensed feature of the pack.

### Configuration Management Pack Database Reports

The following reports are part of the Configuration Management Pack for Oracle Database. All reports in each of these sections are licensed for this pack. To display the Report Definitions page, click the **Reports** tab on the Grid Control Home page.

- All reports under **Deployment and Configuration**
- Monitoring reports
  - **Alerts and Policy Violations**
  - **Disabled Policies**
- Security reports
  - **Security Policy Overview**

### Additional Licensed Features

With the purchase of the Configuration Management Pack for Oracle Database, you also are entitled to the features described in the following sections. These features are restricted to the Oracle Database targets in the Oracle Database Home and the Platform (hardware and operating system) for the CPUs you have licensed.

### Configuration Change Console

The Configuration Change Console offers real-time change detection and integration capabilities as described below.

**Real-time Change Detection** The Configuration Change Console is a policy-based system designed to help organizations and administrators support their IT compliance goals and help deliver the level of service expected by their users. The console includes a set of predefined frameworks created by industry experts to meet common compliance requirements. This enables IT departments to quickly and easily demonstrate compliance with government regulations and industry standards such as SOX, PCI, and ITIL.

The frameworks provide predefined controls mapped to application, device, and user event detection rules. These mappings empower the enterprise to monitor adherence for best practices from a centralized dashboard and provide concrete evidence in the form of reports for internal and external audits, reducing both the risk and cost of compliance. The console also provides an easy-to-use interface enabling administrators to define their own specific frameworks, policies, and controls and map them to the devices across their environment that they decide to monitor.

The Configuration Change Console automates the detection and capture of user and application actions that result in changes to the infrastructure without requesting or



requiring user input. This automates the compliance audit trail and minimizes the time required to uncover compliance breaches.

Examples of components monitored for configuration change include:

- Files and directories
- Processes
- User accounts
- Server resources
- Databases
- Middleware
- Network devices

**Integration Capabilities** The Configuration Change Console complements many existing IT infrastructure and service management systems through the following integration approaches:

- **Change management system integration** — The Configuration Change Console integrates with popular change management systems (such as Remedy) to create a closed-loop change management solution. Integration is achieved through an adapter that enables communication between the change management system and Configuration Change Console. This integration enables the Configuration Change Console to determine if a change was authorized or unauthorized through an open request for change in the change management system.
- **Simple Network Management Protocol traps** — The Configuration Change Console can send an alert whenever a specific change is detected to any third-party system.
- **Standards-based APIs** — The Configuration Change Console is based on industry standards such as Java Platform, Enterprise Edition (J2EE), and Extensible Markup Language (XML), and can integrate with similar standards-based interfaces.

**Configuration Change Console Restricted-use Licensing** Configuration Change Console Server includes restricted-use licenses for Oracle Database (Enterprise Edition), Oracle BEA Weblogic, and Oracle Business Intelligence, solely for the purpose of running the Configuration Change Console Release Server.

- **Restricted-use License for Oracle Database (Enterprise Edition)**

Oracle includes restricted-use licenses for Oracle Database (Enterprise Edition) with licenses of Configuration Change Console Release. If you want to use the Oracle Database (Enterprise Edition) not solely for the purposes of running Configuration Change Console Release Server, then you must purchase full-use licenses for Oracle Database (Enterprise Edition).

- **Restricted-use License for Oracle BEA Weblogic**

Oracle includes restricted-use licenses for Oracle BEA Weblogic with licenses of the Configuration Change Console Release. If you want to use the Oracle BEA Weblogic not solely for the purposes of running the Configuration Change Console Release 5 Server, then you must purchase full-use licenses for Oracle BEA Weblogic.

- **Restricted-use License for Oracle Business Intelligence**

Oracle includes restricted-use licenses for Oracle Business Intelligence with licenses of Configuration Change Console Release 5 (10.2.0.5). If you want to use

Oracle Business Intelligence not solely for the purposes of reporting on the data within the Configuration Change Console Release 5 (10.2.0.5) Server, then you must purchase full-use licenses for Oracle Business Intelligence. You may use the restricted-use license to, (1) utilize out-of-box reports shipped with the Configuration Change Console, (2) modify out-of-box report visualization and layouts, (3) add additional data to reports with the Configuration Change Console repository as the sole source of additional data, (4) create new reports with the Configuration Change Console repository as the sole source of data.

### **Application Configuration Console**

Enterprises today require a comprehensive solution for managing their application infrastructure underlying their mission-critical applications. The Application Configuration Console provides IT infrastructure teams with an automated "gold master" approach to application infrastructure configuration management that enables smooth delivery and support of mission-critical business applications. IT infrastructure personnel can capture the current state of configuration settings for IT assets, monitor them for changes, and automate processes for provisioning changes as well as set up new environments throughout the application lifecycle — from development, testing, and through production.

The Application Configuration Console provides:

- Management of database and IT infrastructure configuration data at individual property levels
- System-level configuration comparisons
- Template-based configuration collections
- Policy enforcement at individual configuration property levels
- Intelligent parameter-setting for configuration properties
- Change tracking and alerts for individual configuration property changes
- Blueprints for configuration collection of 100+ software assets
- Role-based views of configuration data
- Agentless collections

### **Configuration Management Pack Enterprise Manager Repository Views**

The following repository views are part of Oracle Configuration Management Pack:

- **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 Data Masking Pack

Oracle Data Masking Pack offers the ability to mask regulated or confidential data on test or development systems.

Oracle Data Masking Pack includes the following features:

- Mask format libraries
- Mask definitions
- Masking techniques
  - Condition-based masking
  - Compound masking
  - Deterministic masking
- Application masking templates import or export
- Mask format library import or export
- Masking script generation
- Clone and Mask workflow

### Enterprise Manager

The following licensed pages and links in Enterprise Manager apply to Oracle Data Masking Pack.

From the Enterprise Manager Home page, select the **Schema** sub-tab. In the Data Masking section, the following links and associated pages are licensed as part of the pack:

- **Definitions:** All links, buttons, and drilldowns on this page are licensed features of this pack.
- **Format Library:** All links, buttons, and drilldowns on this page are licensed features of this pack.

**Licensed Command Line Interface (CLI) Verbs** The following Enterprise Manager CLI verbs are licensed as part of the The Data Masking Pack for Oracle Database:

- export\_masking\_definition
- generate\_masking\_script
- import\_masking\_definition
- list\_masking\_definitions

- reassoc\_masking\_definition
- save\_masking\_script
- submit\_masking\_job

Oracle Data Masking Pack must be licensed for those databases servers where the masked data originates from as well as those database servers containing the masked data.

## Oracle Diagnostics Pack

Oracle Diagnostics Pack provides automatic performance diagnostic and advanced system monitoring functionality.

Oracle Diagnostics 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
- Execution of the Real Application Testing 'Replay Compare Period Report'

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

- `DIAGNOSTIC+TUNING`: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is enabled in the database server.
- `DIAGNOSTIC`: Only Oracle Diagnostics Pack functionality is enabled in the server.
- `NONE`: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server.

Any and all methods of accessing Oracle Diagnostics Pack functionality, whether through Enterprise Manager Console, Desktop Widgets, command-line APIs, or direct access to the underlying data, requires an Oracle Diagnostics Pack license.

### Enterprise Manager

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

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

- This will take you to the **Management Pack Access** page, which allows you to grant and remove access from all the management packs.
  - For Enterprise Manager Database Control, click the **Remove Access** radio button for the Diagnostics Pack and click **Apply**.
  - For Enterprise Manager Grid Control, click the appropriate check box for the Diagnostics Pack and click **Apply**.

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

### Command-Line APIs

Oracle 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\_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 DBMS\_WORKLOAD\_REPLAY.COMPARE\_PERIOD\_REPORT function is part of this pack.
- The V\$ACTIVE\_SESSION\_HISTORY dynamic performance view and its underlying table, X\$ASH, are part of this pack.
- The DBA\_STREAMS\_TP\_PATH\_BOTTLENECK view is part of this pack.
- All views beginning with DBA\_ADDM\_ are part of this pack.
- Some data in DBA\_STREAMS\_TP\_COMPONENT\_STAT requires Oracle Diagnostics Pack. The following filter clause to any query on DBA\_STREAMS\_TP\_COMPONENT\_STAT shows Diagnostics-Pack-dependent data:

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

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

```
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 Oracle Diagnostics Pack license.
- All data dictionary views with the prefix DBA\_ADVISOR\_ are part of this pack if queries to these views return rows with the value ADDM in the ADVISOR\_NAME column or a value of ADDM\* in the TASK\_NAME column or the corresponding TASK\_ID.
- The following reports found in the /rdbms/admin/ directory of the Oracle home directory are part of this pack: awrrpt.sql, awrrpti.sql, awrg rpt.sql, awrg rpti.sql, awrgdrpt.sql, awrgdrpi.sql, addmrpt.sql, addmrpti.sql, ashrpt.sql, ashrpti.sql, awrddrpt.sql, awrddrpi.sql, awrsqrpt.sql, awrsqrpti.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

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.

Oracle Provisioning and Patch Automation Pack contains the following features:

- Automated patching for Oracle database products and the operating system
- Critical Patch Facility
- Bare metal OS provisioning
- Single instance and RAC provisioning, including when invoked in the context of Real Application Testing
- Single click cluster scale up and scale down
- Single instance-to-RAC conversion
- CLI driven runtime of the above operations



- Enterprise Security Advisor
- Provisioning and deployment reports

## Oracle Tuning Pack

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

Oracle Tuning Pack includes the following features:

- SQL Access Advisor
- SQL Tuning Advisor
- Automatic SQL Tuning
- SQL Tuning Sets
- Automatic Plan Evolution of SQL Plan Management
- SQL Monitoring
- Reorganize objects

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

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- `DIAGNOSTIC`: Only Oracle Diagnostics Pack functionality is enabled in the server.
- `NONE`: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server.

Any and all methods of accessing Oracle Tuning Pack functionality, whether through Enterprise Manager Console, Desktop Widgets, command-line APIs, or direct access to the underlying data, requires an Oracle Tuning Pack license.

### Enterprise Manager

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

- When you click the **Setup** link, the navigation bar contains the **Management Pack Access** link. Click this link.
- This will take you to the Management Pack Access page, 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 Oracle Tuning Pack in Enterprise Manager. All the disabled links and tabs are part of Oracle Tuning Pack and therefore require a pack license.

### Command-Line APIs

Oracle 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 two additional products for specific customer environments.

This section describes the following products:

- [Oracle Cluster File System--Cloud Edition](#)
- [Oracle Database Lite](#)
- [Oracle Programmer](#)
- [Oracle Secure Backup](#)

## Oracle Cluster File System--Cloud Edition

Oracle Cluster File System--Cloud Edition is a separately licensed product. It provides a clustered file system for cloud storage applications, built on Automatic Storage Management, and includes advanced data management and security features. Oracle Cluster File System--Cloud Edition includes the following features and components:

- Automatic Storage Management (ASM)
- ASM Dynamic Volume Manager (ADVM)
- ASM Cluster File System (ACFS)
- ACFS File tagging for aggregate operations
- ACFS Read-only snapshots
- ACFS Continuous replication
- ACFS encryption
- ACFS Role-based security
- Oracle clusterware in support of ASM and ACFS

## 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 Mobile Server is licensed by CPU.

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**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.

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## 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.



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## Third-Party Licenses

This appendix contains licensing information about third-party products included with Oracle Database 11g Release 2 (11.2) and Oracle Exadata. This appendix contains the following sections:

- [Third-Party Product Licensing for Oracle Database](#)
- [Third-Party Product Licensing for Oracle Exadata](#)

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### **Atsuhiko Yamanaka, JCraft, Inc., Java Secure Channel (JSCH) for SSH2**

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

```
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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Based upon the plugin by Tzury Bar Yochay:  
<http://github.com/tzuryby/hotkeys>

Original idea by:

Binny V A, [http://www.openjs.com/scripts/events/keyboard\\_shortcuts/](http://www.openjs.com/scripts/events/keyboard_shortcuts/)

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jQuery validation plug-in 1.7

<http://bassistance.de/jquery-plugins/jquery-plugin-validation/>  
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