Preface ........................................................................................................................................................................... v
  Audience ........................................................................................................................................................................ v
  Documentation Accessibility ........................................................................................................................................ v
  Related Documents .................................................................................................................................................... vi
  Conventions ................................................................................................................................................................. vi

1 Oracle Database Editions
The Oracle Database Product Family ................................................................................................................................. 1-1
Feature Availability by Edition ........................................................................................................................................ 1-2
Features Specific to Oracle Engineered Systems and Oracle Storage ........................................................................ 1-8
Features Specific to the Windows Platform .................................................................................................................... 1-9
Special-Use Licensing .................................................................................................................................................. 1-9
Restricted-Use Licensing ........................................................................................................................................... 1-14

2 Options and Packs
Oracle Database Options ..................................................................................................................................................... 2-1
Oracle Management Packs ........................................................................................................................................... 2-11
Checking for Database Option and Management Pack Usage ..................................................................................... 2-31
Other Oracle Products .................................................................................................................................................... 2-32

A Third-Party Licenses
Third-Party Product Licensing for Oracle Database ...................................................................................................... A-2

Index
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, contact the License Management Services representative at http://www.oracle.com/us/corporate/license-management-services/index.html, or refer to the resources listed in "Related Documents" on page 2-vi for more information.

Oracle Database 12c 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 User Manual 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 12c.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

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

For more information, see these Oracle resources:

- *Oracle Database New Features Guide* for information on the features new to this release of Oracle Database

- The Software Investment Guide, available at:
  

Conventions

The following text conventions are used in this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td><strong>monospace</strong></td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
This chapter describes 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 Oracle Engineered Systems and Oracle Storage
- Features Specific to the Windows Platform
- Special-Use Licensing
- Restricted-Use Licensing

The Oracle Database Product Family

Oracle Database is available in the following 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 2

Oracle Database Standard Edition 2 delivers unprecedented ease of use, power, and performance for workgroup, department-level, and Web applications.

Note: Oracle Database Standard Edition 2 is available starting with Oracle Database 12c Release 1 (12.1.0.2). For 12.1.0.1, Oracle Database Standard Edition One and Oracle Database Standard Edition are available.

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 11 GB of user data, using up to 1 GB 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 11g Release 2.


**Feature Availability by Edition**

Table 1–1 lists feature availability for Oracle Database Standard Edition One (SE1), Standard Edition (SE), Standard Edition 2 (SE2), 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 11g Release 2.

---

**Note:** Oracle Database Standard Edition 2 (SE2) is available starting with Oracle Database 12c Release 1 (12.1.0.2). For 12.1.0.1, Oracle Database Standard Edition One (SE1) and Oracle Database Standard Edition (SE) are available.

---

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

<table>
<thead>
<tr>
<th>Feature/Option</th>
<th>SE1</th>
<th>SE/SE2</th>
<th>EE</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consolidation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multitenant</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option for up to 252 pluggable databases. The multitenant architecture with one user-created pluggable database (single tenant) is available in all editions.</td>
</tr>
<tr>
<td>Snapshots and Cloning</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Snapshot Optimization</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Advanced Compression option</td>
</tr>
<tr>
<td>High Availability</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application Continuity</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Active Data Guard option or the Real Application Clusters option</td>
</tr>
<tr>
<td>Oracle Fail Safe</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Windows only</td>
</tr>
<tr>
<td>Oracle RAC One Node</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option</td>
</tr>
</tbody>
</table>
### Table 1–1  (Cont.) Feature Availability for Oracle Database Editions

<table>
<thead>
<tr>
<th>Feature/Option</th>
<th>SE1</th>
<th>SE/SE2</th>
<th>EE</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Data Guard—Redo Apply</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Oracle Data Guard—Far Sync Standby</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Active Data Guard option</td>
</tr>
<tr>
<td>Oracle Data Guard—SQL Apply</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Oracle Data Guard—Snapshot Standby</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Oracle Data Guard—Real-Time Cascading Standbys</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Active Data Guard option</td>
</tr>
<tr>
<td>Oracle Active Data Guard</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option</td>
</tr>
<tr>
<td>Rolling Upgrades—Patch Set, Database, and Operating System</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Rolling Upgrade Using Active Data Guard</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Active Data Guard option</td>
</tr>
<tr>
<td>Online index rebuild</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Online index-organized table organization</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>ALTER TABLE ... MOVE ONLINE operations</td>
</tr>
<tr>
<td>Online table redefinition</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Using the DBMS_REDEFINITION package</td>
</tr>
<tr>
<td>Duplexed backup sets</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Block change tracking for fast incremental backup</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Unused block compression in backups</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Block-level media recovery</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Lost Write Protection</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Automatic Block Repair</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Active Data Guard option</td>
</tr>
<tr>
<td>Parallel backup and recovery</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Tablespace point-in-time recovery</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Trial recovery</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Fast-start fault recovery</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Flashback Table</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Flashback Database</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Flashback Transaction</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Flashback Transaction Query</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Optimization for Flashback Data Archive</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Basic Flashback Data Archive is in all editions. Optimization for Flashback Data Archive requires EE and the Advanced Compression option.</td>
</tr>
<tr>
<td>Online Datafile Move</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Transaction Guard</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Cross-platform Backup and Recovery</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Global Data Services</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Active Data Guard option</td>
</tr>
<tr>
<td>Feature/Option</td>
<td>SE1</td>
<td>SE/SE2</td>
<td>EE</td>
<td>Notes</td>
</tr>
<tr>
<td>----------------------------------------------------</td>
<td>-----</td>
<td>--------</td>
<td>---------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Recovering tables and table partitions from RMAN backups</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td><strong>Scalability</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Real Application Clusters</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Extra cost with EE, included with SE and SE2</td>
</tr>
<tr>
<td>Automatic Workload Management</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Requires the Real Application Clusters option</td>
</tr>
<tr>
<td>Quality of Service Management</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Real Application Clusters option</td>
</tr>
<tr>
<td>Oracle NoSQL Database Basic Edition</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td><strong>Performance</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Client Side Query Cache</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Query Results Cache</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>PL/SQL Function Result Cache</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>TimesTen Application-Tier Database Cache</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option</td>
</tr>
<tr>
<td>Database Smart Flash Cache</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Solaris and Oracle Linux only</td>
</tr>
<tr>
<td>Support for Oracle Exadata Storage Server Software</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Adaptive Execution Plans</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Concurrent Execution of \texttt{UNION} and \texttt{UNION ALL} Branches</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>In-Memory Column Store \texttt{(Note 1)}</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Database In-Memory option</td>
</tr>
<tr>
<td>Fault Tolerant In-Memory Column Store \texttt{(Note 1)}</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Database In-Memory option, the Real Application Clusters option, and Exadata, Supercluster, or Database Appliance</td>
</tr>
<tr>
<td>In-Memory Aggregation \texttt{(Note 1)}</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Database In-Memory option</td>
</tr>
<tr>
<td>Attribute Clustering \texttt{(Note 1)}</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Zone Maps \texttt{(Note 1)}</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Partitioning option, and Exadata or Supercluster</td>
</tr>
</tbody>
</table>
### Feature Availability for Oracle Database Editions

<table>
<thead>
<tr>
<th>Feature/Option</th>
<th>SE1</th>
<th>SE/SE2</th>
<th>EE</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Security</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Advanced Security</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option</td>
</tr>
<tr>
<td>Oracle Database Vault</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option</td>
</tr>
<tr>
<td>Oracle Label Security</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option</td>
</tr>
<tr>
<td>Fine-grained Auditing</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Privilege Analysis</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Database Vault option</td>
</tr>
<tr>
<td>Real Application Security</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Redaction</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires Oracle Advanced Security</td>
</tr>
<tr>
<td>Transparent Sensitive Data Protection</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Virtual Private Database</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td><strong>Development Platform</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SQLJ</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Requires Oracle Programmer</td>
</tr>
<tr>
<td>Oracle Developer Tools for Visual Studio .NET</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Windows only</td>
</tr>
<tr>
<td>Microsoft Distributed Transaction Coordinator support</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Windows only</td>
</tr>
<tr>
<td>Active Directory integration</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Windows only</td>
</tr>
<tr>
<td>Native .NET Data Provider—ODP.NET</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Windows only</td>
</tr>
<tr>
<td>.NET Stored Procedures</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Windows only</td>
</tr>
<tr>
<td>Feature/Option</td>
<td>SE1</td>
<td>SE/SE2</td>
<td>EE</td>
<td>Notes</td>
</tr>
<tr>
<td>---------------------------------------------------------</td>
<td>-----</td>
<td>--------</td>
<td>----</td>
<td>-------</td>
</tr>
<tr>
<td>Manageability</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Cloud Management Pack for Oracle Database</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option</td>
</tr>
<tr>
<td>Oracle Data Masking and Subsetting Pack</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option</td>
</tr>
<tr>
<td>Oracle Database Lifecycle Management Pack for Oracle</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option</td>
</tr>
<tr>
<td>Database</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database Resource Manager</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Instance Caging</td>
<td>N</td>
<td>See</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>SQL Plan Management</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>SQL Tuning Sets</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Rapid Home Provisioning (Note 1)</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>

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

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 Oracle Database Enterprise Edition: 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.

When deployed across multiple clusters, requires Lifecycle Management Pack on targets
### Table 1–1 (Cont.) Feature Availability for Oracle Database Editions

<table>
<thead>
<tr>
<th>Feature/Option</th>
<th>SE1</th>
<th>SE/SE2</th>
<th>EE</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>VLDB, Data Warehousing, Business Intelligence</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Partitioning</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option</td>
</tr>
<tr>
<td>Oracle OLAP</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option</td>
</tr>
<tr>
<td>Oracle Advanced Analytics</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option</td>
</tr>
<tr>
<td>Oracle Advanced Compression</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option</td>
</tr>
<tr>
<td>Advanced Index Compression (Note 1)</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Advanced Compression option</td>
</tr>
<tr>
<td>Prefix Compression (also called Key Compression)</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Hybrid Columnar Compression</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires Exadata, Supercluster, ZFS, Axiom, or FS1 storage</td>
</tr>
<tr>
<td>Hybrid Columnar Compression Row-Level Locking (Note 1)</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Advanced Compression option, and Exadata, Supercluster, ZFS, or FS1 storage</td>
</tr>
<tr>
<td>Exadata Flash Cache Compression</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Advanced Compression option, and Exadata or Supercluster</td>
</tr>
<tr>
<td>Heat Map</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Advanced Compression option</td>
</tr>
<tr>
<td>Automatic Data Optimization</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Advanced Compression option</td>
</tr>
<tr>
<td>Basic Table Compression</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Deferred Segment Creation</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Bitmapped index, bitmapped join index, and bitmap plan conversions</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Parallel query/DML</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Parallel statistics gathering</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Parallel index build/scans</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Parallel Data Pump Export/Import</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>In-memory Parallel Execution</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Parallel Statement Queuing</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Parallel capture and apply via XStream</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Transportable table spaces, including cross-platform and full transportable export and import</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Import of transportable table spaces supported into SE, SE1, SE2, and EE</td>
</tr>
<tr>
<td>Summary management—Materialized View Query Rewrite</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Feature/Option</td>
<td>SE1</td>
<td>SE/SE2</td>
<td>EE</td>
<td>Notes</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>-----</td>
<td>--------</td>
<td>------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Integration</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic Replication</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>SE/SE1/SE2: read-only, updateable materialized view</td>
</tr>
<tr>
<td>Advanced Replication</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Multi-master replication</td>
</tr>
<tr>
<td>Oracle Streams</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>SE/SE1/SE2: no capture from redo</td>
</tr>
<tr>
<td>Database Gateways</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Separate product license</td>
</tr>
<tr>
<td>Messaging Gateway</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Sharded Queues</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Partitioning option</td>
</tr>
<tr>
<td>Networking</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Connection Manager</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Available via a custom install of the Oracle Database client, usually installed on a separate machine</td>
</tr>
<tr>
<td>Infiniband Support</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Network Compression</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Advanced Compression option</td>
</tr>
<tr>
<td>Network Encryption (SSL/TLS)</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Spatial and Graph Data</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Spatial and Graph</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Extra cost option</td>
</tr>
<tr>
<td>Graph and Semantic Technologies (RDF/OWL)</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Spatial and Graph option and the Partitioning option</td>
</tr>
<tr>
<td>Parallel spatial index builds</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Partitioned spatial indexes</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Requires the Partitioning option</td>
</tr>
</tbody>
</table>

**Note 1:** This feature is available starting with Oracle Database 12c Release 1 (12.1.0.2).

**Features Specific to Oracle Engineered Systems and Oracle Storage**

Table 1–2 lists feature availability for Oracle Engineered Systems (Exadata, Supercluster, and Database Appliance) and Oracle Storage (ZFS, Axiom, and FS1).

**Note:** Transparent features (such as smart scans and storage indexes) are not listed.
### Table 1–2  Feature Availability for Oracle Engineered Systems and Oracle Storage

<table>
<thead>
<tr>
<th>Feature</th>
<th>Exadata</th>
<th>Supercluster</th>
<th>Database Appliance</th>
<th>ZFS</th>
<th>Axiom</th>
<th>FS1</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hybrid Columnar Compression</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Hybrid Columnar Compression Row-Level Locking</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Requires the Advanced Compression option</td>
</tr>
<tr>
<td>Exadata Flash Cache Compression</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Requires the Advanced Compression option</td>
</tr>
<tr>
<td>Zone Maps</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Requires the Partitioning option</td>
</tr>
<tr>
<td>Fault Tolerant In-Memory Column Store</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Requires the Database In-Memory option and the Real Application Clusters option</td>
</tr>
<tr>
<td>I/O Resource Management</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

### Features Specific to the Windows Platform

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

- Microsoft Transaction Server/COM+ integration
- Oracle OLE DB Provider
- VLM Support
- Native .NET Data Provider - ODP.NET
- Oracle Database Extensions for .NET (.NET Stored Procedures)
- Oracle Developer Tools for Visual Studio
- Oracle Providers for ASP.NET

### Special-Use Licensing

The following sections describe special-use licensing:

- Infrastructure Repository Databases
- Data Guard Far Sync
- Global Data Services
- Oracle Advanced Security and Enterprise User Security
- Oracle ASM Cluster File System (Oracle ACFS)
- Oracle Automatic Storage Management (Oracle ASM)
- Oracle Clusterware
- Oracle Connection Manager
- Oracle Database Backup Cloud Service
- Oracle Database Express Edition
- Oracle Database Gateway for ODBC
■ Oracle Database Provider for DRDA
■ Oracle Database Standard Edition/Standard Edition 2 and Oracle Real Application Clusters (Oracle RAC)
■ Oracle Secure Backup and Oracle Secure Backup Cloud Module
■ Oracle Secure Backup Express
■ Oracle Wallet
■ Support of Real Application Testing in Earlier Releases
■ XStream

**Infrastructure Repository Databases**
A separate single instance Oracle Database can be installed and used as an infrastructure repository for RMAN, Oracle Enterprise Manager Cloud Control, Automatic Workload Repository (AWR) Warehouse, Global Data Services Catalog, and Grid Infrastructure Management Repository without additional license requirements, provided that all the targets are correctly licensed. It may not be used or deployed for other uses.

The infrastructure repositories for RMAN, Oracle Enterprise Manager Cloud Control, AWR Warehouse, and Global Data Services Catalog can be shared in one database, or deployed in separate databases. Enterprise Edition must be used for the infrastructure repository database(s).

If Oracle RAC is used for the infrastructure database, then Oracle RAC licenses for all servers, and Enterprise Edition licenses for all but the first server, are required.

If Data Guard is used for the infrastructure database, then an Enterprise Edition license for the standby server is required.

**Data Guard Far Sync**
The far sync instance can be installed and used on a server different from the server where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the server running the far sync instance.

**Global Data Services**
The GSM listener can be installed and used on a server different from the server where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the server running the GSM listener.

**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 Kerberos and PKI based authentication. It does require a corresponding Oracle Identity Management Directory Services Plus to be licensed.

Any Oracle Advanced Security licenses purchased on or before January 31, 2004, have restricted use of the Oracle Internet Directory (OID) component of Oracle Directory Services Plus to support enterprise user security.

**Oracle ASM Cluster File System (Oracle ACFS)**
Refer to following table for the license requirements that apply to the Oracle ACFS features:
<table>
<thead>
<tr>
<th>Oracle ACFS Features</th>
<th>Oracle Database Files</th>
<th>Non-Oracle Database Files</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Oracle ACFS features other than those listed below</td>
<td>Free</td>
<td>Free</td>
</tr>
<tr>
<td>ACFS Snapshot</td>
<td>Requires Oracle Database Enterprise Edition*</td>
<td>Free</td>
</tr>
<tr>
<td>ACFS Encryption</td>
<td>Not available (use Oracle Transparent Data Encryption, part of the Oracle Advanced Security option*)</td>
<td>Free</td>
</tr>
<tr>
<td>ACFS Security</td>
<td>Not available (use Oracle Database Vault*)</td>
<td>Free</td>
</tr>
<tr>
<td>ACFS Replication</td>
<td>Not available (use Oracle Data Guard*)</td>
<td>Free</td>
</tr>
<tr>
<td>ACFS Auditing</td>
<td>Not available (use Oracle Audit Vault*)</td>
<td>Free</td>
</tr>
<tr>
<td>ACFS Tagging</td>
<td>Free</td>
<td>Free</td>
</tr>
</tbody>
</table>

Oracle will provide support services for Oracle ACFS only if the server it operates on also operates an Oracle product, which may include Oracle Linux or Oracle Solaris, which is under an Oracle support contract.

* Requires appropriate full-use licenses to these products or components.

**Oracle Automatic Storage Management (Oracle ASM)**
Oracle ASM is free to use with all Oracle databases and Oracle ACFS file systems.

**Oracle Clusterware**
Oracle Clusterware provides cluster membership and high availability monitoring and failover. Oracle Clusterware may be used to protect any application (restarting or failing over the application in the event of a failure) on any server, free of charge. Oracle will provide support for Clusterware only if the server is running an Oracle product, which may include Oracle Linux or Oracle Solaris, that is also under Oracle support.

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

**Oracle Database Backup Cloud Service**
Oracle Database Backup Cloud Service includes use of the following two features from the Oracle Advanced Security Option or the Oracle Advanced Compression Option at no additional cost:
- RMAN backup encryption
- All RMAN backup compression algorithms

To use additional features of the Oracle Advanced Security Option or the Oracle Advanced Compression Option, you must license those options separately. In addition, the Oracle Advanced Security Option must be separately licensed when performing RMAN encrypted backups directly to disk.

**Oracle Database 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 11 GB 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 Database Gateway for ODBC**

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

**Oracle Database Provider for DRDA**

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


The following licensing information applies when using Oracle Real Application Clusters in a clustered server environment with Oracle Database Standard Edition or Oracle Database Standard Edition 2:

- You must use Oracle Clusterware. Third-party clusterware management solutions are not supported.

- Oracle Automatic Storage Management or the ASM Cluster File System (ACFS) is required for creating and managing all Oracle database file types. Raw volumes, partitions, or third-party cluster file systems are not supported for storing Oracle database files. 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:
  - Customers who want to manually script maintenance of a standby database can create a second copy of their archive logs outside of Oracle ASM on a local file system only, designated by the `LOG_ARCHIVE_DEST_n` parameter.
  - RMAN backups of files can reside on either a local or network mounted file system.

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

For backup of Oracle Database Enterprise Edition, Oracle Secure Backup includes restricted-use licenses for:

- RMAN backup encryption to tape or Amazon S3
- RMAN backup compression leveraging LOW, MEDIUM, BASIC or HIGH algorithms

The Oracle Secure Backup special-use licenses apply to RMAN backup encryption, which is a component of the Oracle Advanced Security Option, and RMAN backup compression levels, which are components of the Oracle Advanced Compression Option. To use additional features of the Oracle Advanced Security Option or the Oracle Advanced Compression Option, you must license those options separately. In addition, the Oracle Advanced Security Option must be licensed when performing RMAN encrypted backups directly to disk whether or not Oracle Secure Backup is the media manager.

**Oracle Secure Backup Express**

Oracle Secure Backup Express is bundled with the Oracle Database. Support for Oracle Secure Backup Express is provided exclusively through a free Oracle Discussion Forum monitored by Oracle employees as well as community experts.

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

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

**Oracle Wallet**

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

**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 or higher.

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

- **Database Replay**: Only the Workload Capture feature is supported, and the captured workload may be replayed only on Oracle Database 11g. This feature can be used only to facilitate upgrades from Oracle Database 10g Release 2 to Oracle Database 11g.
**SQL Performance Analyzer**: Only the Remote SQL Test Execute and SQL Capture into SQL Tuning Set features are supported. These features can be used only to facilitate upgrades from Oracle9i 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 Release1), 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.

**XStream**

XStream 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.

**Restricted-Use Licensing**

The following restricted-use licenses are included with Oracle Database 12c in the editions indicated:

- A restricted-use license for Oracle Identity Management Directory Services Plus component Oracle Internet Directory (OID) is included with all editions (except for Oracle Database Express Edition) if users use the Directory Naming feature to configure Oracle Net Services. OID may not be used or deployed for other uses.

- A restricted-use license for Oracle Application Server Containers for J2EE (OC4J) is included with all editions (except for Oracle Database Express Edition). This embedded version is provided solely to support Oracle Enterprise Manager (Database and Cloud Control), Advanced Queuing Servlet, Ultra Search, Application Express, and Warehouse Builder, and may not be used or deployed for other purposes.

- A restricted-use license for Oracle HTTP Server is included with all editions (except for Oracle Database Express Edition) when the HTTP Server is running on the same server as the database. Running Oracle HTTP server on a different server requires that other server be licensed to use the HTTP server, either through an Oracle Database license or an Oracle Application Server license.

- Restricted-use licenses of Load Testing Accelerator for Oracle Database, Oracle Load Testing, and Oracle Load Testing Controller are included with Oracle Real Application Testing for use for Oracle Database testing and may not be used for application testing.
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
- Checking for Database Option and Management Pack Usage
- 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 Analytics
- Oracle Advanced Compression
- Oracle Advanced Security
- Oracle Database In-Memory
- Oracle Database Vault
- Oracle Label Security
- Oracle Multitenant
- Oracle On-Line Analytical Processing (OLAP)
- Oracle Partitioning
- Oracle RAC One Node
Oracle Active Data Guard

Oracle Active Data Guard increases performance, availability, data protection, and return on investment wherever Data Guard is used for real-time data protection and availability. An Oracle Active Data Guard standby database can be used to offload a primary database of reporting, ad-hoc queries, data extracts, and backups, making it a very effective way to insulate interactive users and critical business tasks on the production system from the overhead of long-running operations. Oracle Active Data Guard provides read-only access to a physical standby database while it is synchronized with a primary database, enabling minimal latency between reporting and production data. Unlike other replication methods, Active Data Guard is very simple to use, transparently supports all datatypes, and offers very high performance with complete read consistency at the reporting database. Oracle Active Data Guard automatically repairs physical corruption on either the primary or standby database, increasing availability and maintaining data protection at all times. Oracle Active Data Guard 12c reduces downtime for Oracle Database upgrades and other database maintenance while avoiding error-prone manual procedures. Oracle Active Data Guard 12c Far Sync enables zero data loss disaster protection (DR) across any distance without impacting database performance. Oracle Active Data Guard 12c also includes Global Data Services to extend the concepts of automated service failover and workload management to globally distributed systems, and Application Continuity to provide transparent failover of in-flight transactions in Data Guard configurations that do not use Oracle Real Application Cluster (Oracle RAC).

The Active Data Guard option contains the following features:

- Physical Standby with Real-time Query
- Fast Incremental Backup on Physical Standby
- Automatic Block Repair
- Active Data Guard Far Sync
- Global Data Services
- Real-Time Cascade
- Application Continuity
- Rolling Upgrade using Active Data Guard

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 Analytics

Oracle Advanced Analytics empowers data and business analysts to extract knowledge, discover new insights and make predictions—working directly with large data volumes in the Oracle Database. Oracle Advanced Analytics provides a combination of powerful in-database algorithms and open source R algorithms. Analytic capabilities are accessible via SQL and R languages, and through the SQL Developer extension or open-source R clients. Together, these features enhance the
Oracle Database Options

Oracle Advanced Analytics comprises the following features:

- In-database data mining algorithms:
  - Model build (accessed via the DBMS_DATA_MINING package)
  - Data transformations (accessed via the DBMS_DATA_MINING_TRANSFORM package)
  - Model scoring (accessed via SQL Scoring functions)
  - Predictive Analytics (accessed via the DBMS_PREDICTIVE_ANALYTICS package)

- Oracle R Enterprise (integration with open-source R)
  - The Oracle R Enterprise R transparency layer: The transparency layer allows an R user to directly interact with database-resident data using R language constructs.
  - The Oracle R Enterprise statistics engine, a collection of statistical functions and procedures.
  - Embedded R: ORE can launch multiple R servers while the database manages data flows to enable parallel R processes running independently.
  - All Oracle R Enterprise functionality is invoked using the ORE package.

Oracle Advanced Compression

Oracle Advanced Compression provides comprehensive data compression and Information Lifecycle Management (ILM) capabilities for all types of data: structured/unstructured, backup, network, archive, and Data Guard Redo Transport traffic. To facilitate automated ILM, Heat Map and Automatic Data Optimization enable organizations to maintain system-generated data usage statistics, at the row and segment levels, and to set policies that implement data compression/movement automatically.

The Oracle Advanced Compression option contains the following features:

- Advanced Row Compression
- Advanced LOB Compression
- Advanced LOB Deduplication
- RMAN Backup Compression (RMAN_DEFAULT_COMPRESS does not require the Advanced Compression option)
- Data Pump Data Compression (COMPRESSION=METADATA_ONLY does not require the Advanced Compression option)
- Heat Map
- Automatic Data Optimization
- Data Guard Redo Transport Compression
- Advanced Network Compression
- Optimization for Flashback Data Archive History Tables
- Storage Snapshot Optimization
Oracle Database Options

- Online Move Partition (to any compressed format)
- Exadata Flash Cache Compression: This feature can be enabled only on Exadata storage servers, and all database processors that access the Exadata storage servers must be licensed for Oracle Advanced Compression.
- Advanced Index Compression
- Hybrid Columnar Compression Row-Level Locking (Requires Exadata, Supercluster, ZFS, or FS1 storage)

**Oracle Advanced Security**

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

Oracle Advanced Security provides two primary security features: Transparent Data Encryption and Data Redaction. Data Redaction is new in Oracle Advanced Security with the release of Oracle Database 12c and provides the ability to redact sensitive information such as credit card data and social security numbers before the information leaves the database and is displayed by applications. Transparent Data Encryption provides encryption of data stored in the database, exported from the database using DataPump, or disk-based backups using Oracle RMAN.

Oracle Advanced Security includes the following features:

- Transparent Data Encryption (TDE) for tablespaces and columns (including Oracle SecureFiles)
- DataPump Export File encryption
- RMAN backup encryption to disk
- TDE master key storage in an Oracle Wallet or external Hardware Security Module
- Data Redaction of sensitive data returned to applications
  - Full, Partial, Regular Expression, and Random techniques

Network encryption (native network encryption and SSL/TLS) and strong authentication services (Kerberos, PKI, and RADIUS) are no longer part of Oracle Advanced Security and are available in all licensed editions of all supported releases of the Oracle database.

Oracle Advanced Security includes a restricted-use license for the following Oracle Enterprise Manager features:

- Application Data Modeling (previously called Data Discovery and Modeling)
- Sensitive Column Types and Sensitive Data Discovery
- Application Accelerators

If you want to use the Oracle Enterprise Manager features listed above not solely for the purposes of Oracle Advanced Security, then you must purchase a full-use license for Oracle Data Masking and Subsetting Pack.
Oracle Database In-Memory

Oracle Database In-Memory allows any existing Oracle Database-compatible application to automatically and transparently take advantage of columnar in-memory processing, without additional programming or application changes.

Oracle Database In-Memory includes the following features:

- In-Memory Column Store
- Fault Tolerant In-Memory Column Store (Requires Exadata, Supercluster, or Database Appliance)
- In-Memory Aggregation

**Note:** The Oracle Database In-Memory option is available starting with Oracle Database 12c Release 1 (12.1.0.2).

Oracle Database Vault

Oracle Database Vault lets you control who, when, and where the database and application data can be accessed—helping protect your business against the most common security threats that target privileged user accounts or attempt to bypass applications. 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.

Oracle Database Vault option includes the following features:

- Realms
- Mandatory Realms
- Command Rules
- Privilege Analysis

Oracle Database Vault includes a restricted-use license for the following Oracle Enterprise Management features:

- Application Data Modeling (previously called Data Discovery and Modeling)
- Sensitive Column Types and Sensitive Data Discovery
- Application Accelerators

If you want to use the Oracle Enterprise Management features listed above not solely for the purposes of Oracle Database Vault, then you must purchase a full-use license for Oracle Data Masking and Subsetting Pack.

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. Oracle Identity Management Directory Services Plus, can be licensed separately to enable centralized management of Oracle Label Security policies and authorizations.

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 Label Security includes a restricted-use license for the following Oracle Enterprise Manager features:
■ Application Data Modeling (previously called Data Discovery and Modeling)
■ Sensitive Column Types and Sensitive Data Discovery
■ Application Accelerators

If you want to use the Oracle Enterprise Manager features listed above not solely for the purposes of Oracle Label Security, then you must purchase a full-use license for Oracle Data Masking and Subsetting Pack.

Oracle Multitenant

Multitenant is the capability that enables an Oracle database to function as a multitenant container database (CDB) that includes one or more pluggable databases (PDBs). A PDB is a portable collection of schemas, schema objects, and nonschema objects that appears to an Oracle client as a non-CDB. All Oracle databases before Oracle Database 12c were non-CDBs. Multitenant brings these benefits:
■ Very fast provisioning of a new database or of a copy of an existing database. Very fast redeployment, by unplug and plug, of an existing database to a new platform.
■ Patch or upgrade the Oracle Database version for many databases quickly, and for the human cost of doing it once. Patch or upgrade by unplugging a PDB and plugging it into a different CDB at a later version.
■ Consolidate many more PDBs onto a single platform than you can monolithic databases.

Oracle Multitenant includes the following feature:
■ The ability to have up to 252 PDBs per multitenant container database

The multitenant architecture with one user-created pluggable database (single tenant) is available in all editions without the Multitenant Option.

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 provides a full-dimensional OLAP experience using the Oracle OLAP multidimensional API to cubes. A single OLAP cube can service each of these types of applications.

The Oracle OLAP option includes the following features:
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
- Global and Local Index Partitions and Subpartitions
- Sharded Queues
- Zone Maps (Available starting with Oracle Database 12c Release 1 (12.1.0.2); Requires Exadata or Supercluster)

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
- Application Continuity

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:

■ All the capabilities of Oracle RAC One Node
  – With the exception of “Online migration of the database instance to another server”
■ Real Application Clusters scaling to multiple servers
■ Connection Load Balancing
■ Fast Connection Failover
■ Hot Cluster Failover

**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)
■ Database Consolidation Workbench

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 following reports requires a license of Oracle Diagnostics Pack. For Database Consolidation Workbench see Database Consolidation Workbench on page 2-9.

■ Capture and Replay ASH Analytics Reports
■ Compare Period ADDM Report
■ Replay Compare Period Report

**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.COMPARARE_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

**Database Consolidation Workbench**

Database Consolidation Workbench introduced in Oracle Enterprise Manager Cloud Control 13c is part of the Real Application Testing option. It provides a data-driven and systematic approach to consolidation by eliminating guess work and human errors. Database Consolidation Workbench has three key capabilities, consolidation planning, database migration, and performance validation.

**Prerequisites**

- **Consolidation Planning**
  
  Use of the consolidation planning feature of Database Consolidation Workbench requires an Oracle Database Diagnostics Pack license.

- **Database Migration**
  
  Use of the database migration feature of Database Consolidation Workbench requires a Database Lifecycle Management Pack for Oracle Database license.

**Licensed Links**

The following are the licensed pages and links for the Database Consolidation Workbench within Oracle Enterprise Manager:

**Database Consolidation Workbench page**

- From the Enterprise menu, select Consolidation, then select Database Consolidation Workbench.

- On the database target home page, select the Administration menu, then select Database Consolidation Workbench.

- All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Consolidation Workbench.

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

**Oracle Spatial and Graph**

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

**Spatial Features**

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

These advanced spatial features include:
- **SPATIAL VECTOR ACCELERATION** to significantly improve 2D and 3D spatial vector query performance
- Classes in packages other than the `oracle.spatial.geometry` (`sdoapi.jar`) and `oracle.spatial.util` (`sdoutil.jar`) 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

**Note:** Oracle Locator, a feature of Oracle Database 12c, 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 and Graph Developer’s Guide.*

---

### Graph Features

The graph database features include two graph models:

- A network data model (NDM) graph to model and analyze link-node graphs to represent physical and logical networks used in transportation, utilities and telco
- A semantic RDF graph to model and analyze data represented as triples for social network, linked data, and other semantic applications

The Network Data Model graph features include:

- A storage model to represent graphs and networks in link and node tables
- Java APIs to perform analysis in memory
- Numerous graph analysis functions including shortest path, within cost, nearest neighbors, traveling salesman, spanning tree, and more
- Explicit storage and connectivity of the graph with link- and node-level attributes
- Support for directed and undirected graphs with or without cost

The RDF Semantic Graph features include:

- Graph relationships represented as triples in compressed, partitioned tables
- Indexing, querying, and ontology management
- RDFS, OWL, and user-defined inferencing (parallel, batch, and incremental)
- Support for SPARQL 1.1 and mixed SPARQL and SQL queries
- Enhanced Open Source Tools including Jena, Sesame, Joseki Web Services

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

### Oracle TimesTen Application-Tier Database Cache

Oracle TimesTen Application-Tier 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 TimesTen Application-Tier 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
- Multi-node Cache Grid
- Automatic data synchronization with the Oracle database
- Transactional replication between the in-memory cache databases
- Automated failure detection and database failovers
- TimesTen Extension for Oracle SQL Developer
- TimesTen Plug-in for Oracle Enterprise Manager

### 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, Desktop Widgets, and APIs provided with Oracle Database software.

This section describes the following management packs:

- **Oracle Cloud Management Pack for Oracle Database**
- **Oracle Data Masking and Subsetting Pack**
- **Oracle Database Lifecycle Management Pack for Oracle Database**
- **Oracle Diagnostics Pack**
- **Oracle Tuning Pack**

### Oracle Cloud Management Pack for Oracle Database

Oracle Cloud Management Pack for Oracle Database helps to set up a Database Cloud and operate the Database as a Service model.

**Features**

Some of the features provided by this pack are:
■ Database-as-a-Service comprising self-service database provisioning on physical or virtual infrastructure
■ DBaaS Rapid Start Kit allowing users to set up and configure Enterprise Manager Cloud Control 12c in under a minute.
■ Pluggable Database-as-a-Service (PDBaaS) providing self-service provisioning on a pool of multitenant container databases (CDBs).
■ Support shared server, shared cluster, and shared database (Schema-as-a-Service) deployment models
■ Virtual assembly provisioning. For example, if there is an assembly topology of three VMs (two WebLogic Server-managed servers and one database), you will need both packs to cover the respective tiers.
■ Snap Clone, a fast, storage efficient way of cloning Oracle databases
■ Full clones using RMAN backups
■ Role based access and resource control through quotas and retirement policies
■ Schedule- and performance-based resource management policies
■ Metering and chargeback based on fixed cost, utilization metrics and configuration parameters of the database
■ Programmatic access to the Self-Service Portal
■ Blueprint driven orchestration of cloud operations

Prerequisites
Oracle Cloud Management Pack for Oracle Database requires Oracle Database Lifecycle Management Pack for Oracle Database.

Licensed Links
Starting on the Enterprise Summary home page, the following licensed pages and links of this pack apply:
■ Click the Enterprise menu. Select Cloud, then Infrastructure Home.
■ Click the Enterprise menu. Select Cloud, then Infrastructure Request Dashboard.
■ Click the Enterprise menu. Select Cloud, then Infrastructure Policies.
■ Click the Enterprise menu. Select Cloud, then Middleware and Database Home.
■ Click the Enterprise menu. Select Cloud, then Middleware and Database Request Dashboard.
■ Click the Enterprise menu. Select Cloud, then Self Service Portal.
■ Click the Enterprise menu. Select Cloud, then Service Instances.
■ Click the Enterprise menu. Select Chargeback.
■ Click the Enterprise menu. Select Provisioning and Patching, then Database Provisioning. In the Database Provisioning page, in the Related Links section of the left menu pane, click Provision Pluggable Databases. Next, from the PDB Operations section, select Create New Pluggable Databases. Click Launch, and from Pluggable Database Creation Options, select Clone an Existing PDB -> Snap Clone.
■ On the Multitenant container database’s home page, from the Oracle Database menu, select Provisioning, then Provision Pluggable Database. Next, from the
PDB Operations section, select **Create New Pluggable Databases**. Click **Launch**, and from Pluggable Database Creation Options, select **Clone an Existing PDB -> Snap Clone**.

- Click the **Setup** menu. Select **Cloud**. Select **Infrastructure**.
- Click the **Setup** menu. Select **Cloud**. Select **Database**.
- Click the **Setup** menu. Select **Provisioning and Patching**, then **Storage Registration**.

**Licensed APIs**

<table>
<thead>
<tr>
<th>API</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assembly Operations</strong></td>
<td>Any POST/GET/PUT/DELETE on /em/cloud/iaas URI space for Resources Assembly</td>
</tr>
<tr>
<td><strong>DBaaS Operations</strong></td>
<td>Any POST/GET/PUT/DELETE on /em/cloud/dbaas URI space</td>
</tr>
<tr>
<td><strong>DBaaS Setup Operations</strong></td>
<td>Any POST/GET/PUT/DELETE on /em/websvcs/restful/extws/cloudservices/admin/cfw/v1 URI space.</td>
</tr>
</tbody>
</table>

**Licensed Command Line Interface Verbs**
The following Enterprise Manager Command Line Interface (CLI) verbs are licensed as part of Oracle Cloud Management Pack for Oracle Database. These verbs operate on a database pool.

- `add_pool_members`
- `create_charge_item`
- `create_dbaas_quota`
- `create_dbprofile`
- `create_pool`
- `create_service_template`
- `delete_charge_item`
- `delete_dbaas_quota`
- `delete_pool`
- `delete_service_template`
- `get_dbaas_quota`
- `get_dbaas_request_settings`
- `get_metering_data`
- `get_pool_capacity_data`
- `get_pool_capacity_summary_data`
- `get_pool_constraints`
- `get_pool_criteria`
- `get_pool_detail`
- `get_pool_instance_data`
- get_pool_target_type
- get_pools
- get_service_template
- list_charge_item_candidates
- remove_pool_members
- update_dbaas_quota
- update_dbaas_request_settings
- update_pool

**Licensed Views and Tables**
The following objects within the repository schema are licensed under Oracle Cloud Management Pack for Oracle Database:

- Tables starting with `EMCT_CBA`
- Views starting with `EMCT$CBA`
- The views:
  - GP_EMCT_CBA_TARGET_CHARGE
  - MGMT$EMCT_CBA_CHARGE_DAILY
  - MGMT$EMCT_CBA_CHARGE_HOURLY

**Licensed Chargeback Reports**
The following BI Publisher reports are licensed under Oracle Cloud Management Pack for Oracle Middleware. Also, any report created using the "create-like" feature of BI publisher referring the following reports, falls under this license.

- Charge Trend Report
- Charge Summary Report
- Usage Trend Report
- Usage Summary Report

**Oracle Data Masking and Subsetting Pack**
Oracle Data Masking and Subsetting Pack facilitates the creation of production like data for non-production environments by replacing production data with fictitious yet realistic values. Generation of the fictitious data can be performed during export or on a separate staging server. The Subsetting functionality provides the ability to subset a database by deleting or extraction a portion of data. Subsetting can optionally be used in line with masking functionality.

**Features**
Oracle Data Masking and Subsetting Pack includes the following components and features:

- Application Data Modeling
- Data Masking Formats Library
- Data Masking Definitions
- Data Subsetting Definitions
- Application Data Modeling, Data Masking and Subsetting Enterprise Manager Command Line Interface (CLI) verbs
- Application Data Modeling accelerator for select versions of Oracle E-Business Suite
- Application Data Modeling accelerator for select versions of Oracle Fusion Applications
- Data Masking templates for select versions of Oracle Fusion Applications
- Data Masking templates for select versions of Oracle E-Business Suite

Oracle Data Masking and Subsetting Pack includes the following restricted-use licenses:
- Database Gateway for APPC
- Database Gateway for DRDA
- Database Gateway for Informix
- Database Gateway for SQLServer
- Database Gateway for Sybase
- Database Gateway for Teradata

If you want to use the Oracle Database Gateways listed above not solely for the purposes of Oracle Data Masking and Subsetting Pack, then you must purchase full-use licenses for the Oracle Database Gateways. When using Oracle Data Masking and Subsetting Pack for non-Oracle databases, the Oracle Database Gateways stage the data in a separately licensed Oracle Database. Oracle Data Masking and Subsetting functionality cannot be executed directly against the non-Oracle database.

Oracle Data Masking and Subsetting Pack must be licensed for:
1. The source database server, i.e., the databases from which the data originates.
2. The staging database server on which masking and subsetting operations are executed.

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

<table>
<thead>
<tr>
<th>Licensed Page/Link</th>
<th>How to Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Data Modeling</td>
<td>From the Enterprise Summary home page, click the Enterprise menu, then Quality Management, then Application Data Modeling.</td>
</tr>
<tr>
<td></td>
<td>From the Oracle database or cluster database target home page, click the Security menu, then Application Data Modeling.</td>
</tr>
<tr>
<td></td>
<td>All features, functions, links, buttons, and drill-downs on these menus are licensed as part of the Oracle Data Masking and Subsetting Pack.</td>
</tr>
<tr>
<td>Data Masking Definitions</td>
<td>From the Enterprise Summary home page, click the Enterprise menu, then Quality Management, then Data Masking Definitions.</td>
</tr>
<tr>
<td></td>
<td>From the Oracle database or cluster database target home page, click the Security menu, then Data Masking Definitions.</td>
</tr>
<tr>
<td></td>
<td>All features, functions, links, buttons, and drill-downs on these menus are licensed as part of the Oracle Data Masking and Subsetting Pack.</td>
</tr>
</tbody>
</table>

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

Oracle Database Lifecycle Management Pack for Oracle Database

The Database Lifecycle Management Pack is a comprehensive solution that helps database, system, and application administrators automate the processes required to manage the Oracle Database Lifecycle. It eliminates manual and time consuming tasks related to discovery, initial provisioning, patching, configuration management, and ongoing change management. In addition, the Database Lifecycle Management pack provides compliance frameworks for reporting and management of industry and regulatory compliance standards.

The Database Lifecycle Management covers the entire lifecycle of the databases, including:

- Discovery and Inventory tracking: the ability to discover your assets and track them.
- Initial provisioning: the ability to rollout databases in minutes.
- Ongoing Change Management: end-to-end management of patches, upgrades, schema and data changes.
- Configuration Management: track inventory, configuration drift, and detailed configuration search.
- Compliance Management: reporting and management of industry and regulatory compliance standards.

The Database Lifecycle Management pack is also a prerequisite for the Cloud Management Pack for Oracle Database.

Features

The Database Lifecycle Management Pack for Oracle Database includes the following features, which you can use after purchasing a license:

- Change Activity Plans
- Client system analyzer
- Compliance

<table>
<thead>
<tr>
<th>Licensed Page/Link</th>
<th>How to Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Masking Formats</td>
<td>From the Enterprise Summary home page, click the Enterprise menu, then Quality Management, then Data Masking Formats. All features, functions, links, buttons, and drill-downs on these menus are licensed as part of the Oracle Data Masking and Subsetting Pack.</td>
</tr>
<tr>
<td>Data Subset Definitions</td>
<td>From the Enterprise Summary home page, click the Enterprise menu, then Quality Management, then Data Subset Definitions. From the Oracle database or cluster database target home page, click the Schema menu, then Data Subsetting. All features, functions, links, buttons, and drill-downs on these menus are licensed as part of the Oracle Data Masking and Subsetting Pack.</td>
</tr>
</tbody>
</table>
- Configuration Collection Extensibility
- Configuration Compare
- Configuration History
- Configuration Instance Browser
- Configuration Save
- Configuration Search
- Configuration Topology
- Copy Objects
- Database Patching
- Database Provisioning
- Database Upgrade
- Disaster Recovery via Site Guard
- Enterprise Data Governance
- File Synchronization
- Notifications
- Pluggable Database (PDB) Clone
- PDB Create/Plug/Unplug (Multiple target operations or performed using a customized deployment procedure.)
- PDB Migrate
- RAC Scale Back
- RAC Scale Out
- Real-time configuration change detection
- Real-time schema change detection
- Schema and Data Comparisons
- Schema and Data Synchronization
- Schema Change Plans
- Schema Comparisons
- User Defined Deployment Procedures (UDDP)

**Licensed Parameters**

The `init.ora` parameter `ENABLE_DDL_LOGGING` is licensed as part of the Database Lifecycle Management Pack when set to `TRUE`. When set to `TRUE`, the database reports schema changes in real time into the database alert log under the message group schema_ddl. The default setting is `FALSE`.

**Licensed Links**

The following Licensed Links, features and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management on non-Oracle Database targets, you must purchase the appropriate management pack.
The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database:

<table>
<thead>
<tr>
<th>Licensed Page/Link</th>
<th>How to Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database Provisioning Procedures</td>
<td>From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. All Procedures that Clone and Provision a Database are licensed with the Database Lifecycle Management Pack. From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Database Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. From the Oracle database or cluster database target home page, click the Oracle Database menu, then Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack.</td>
</tr>
<tr>
<td>Database Upgrade</td>
<td>From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. All Procedures that Upgrade a Database are licensed with the Database Lifecycle Management Pack. From the Oracle database or cluster database target home page, click the Oracle Database menu, then Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack.</td>
</tr>
<tr>
<td>User Defined Deployment Procedures (UDDP)</td>
<td>From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. On the Provisioning Library page, from the list of actions, the Create New option is licensed as part of the Database Lifecycle Management Pack.</td>
</tr>
<tr>
<td>RAC Scale Out and Scale Back</td>
<td>From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. All Procedures that Extend or Scale a database or RAC are licensed with the Database Lifecycle Management Pack. From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Database Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. From the Oracle cluster database target home page, click the Oracle Database menu, then Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack.</td>
</tr>
<tr>
<td>Database Patching</td>
<td>From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. All Procedures that patch a database, Clusterware or Real Application Clusters are licensed with the Database Lifecycle Management Pack.</td>
</tr>
<tr>
<td>Offline Patching</td>
<td>From the Enterprise Manager home page, click the Setup menu, Provisioning and Patching, then Offline Patching. From the Online and Offline Setting tab, the Connection, Offline setting is licensed with the Database Lifecycle Management Pack.</td>
</tr>
<tr>
<td>Configuration Instance Browser</td>
<td>From the Enterprise Manager home page, click on Targets, Databases, and select a Database. From the database home page, click on Oracle Database, Configuration. All features, functions, links, buttons, and drill-downs on this menu, excluding Topology, are licensed as part of the Database Lifecycle Management Pack. If the Target Home Page is accessed directly or by other paths: From the database home page, click on Oracle Database, Configuration. All features, functions, links, buttons, and drill-downs on this menu, excluding Topology, are licensed as part of the Database Lifecycle Management Pack.</td>
</tr>
<tr>
<td>Configuration Search</td>
<td>From the Enterprise Manager home page, click the Enterprise menu, then Configuration and Search. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack.</td>
</tr>
<tr>
<td>Licensed Page/Link</td>
<td>How to Access</td>
</tr>
<tr>
<td>--------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Configuration History</td>
<td>From the Enterprise Manager home page, click the Enterprise menu, then Configuration and History. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack.</td>
</tr>
<tr>
<td>Configuration Compare</td>
<td>From the Enterprise Manager home page, click the Enterprise menu, then Configuration and Compare. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack.</td>
</tr>
<tr>
<td>Configuration Save</td>
<td>From the Enterprise Manager home page, click the Enterprise menu, then Configuration and Save. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack.</td>
</tr>
</tbody>
</table>
| Configuration Topology | From the Target Home Page, click on Oracle Database, Configuration, Topology. In the View Dropdown, Used By is licensed as part of the Database Lifecycle Management Pack. 
From the Target Home Page, click on Oracle Database, Configuration, Topology, Customization. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. 
If the Target Home Page is accessed directly or by other paths: 
- From the Target Home Page, click on Oracle Database, Configuration, Topology. In the View drop-down, Used By is licensed as part of the Database Lifecycle Management Pack. 
- From the Target Home Page, click on Oracle Database, Configuration, Topology, Customization. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. |
| Configuration Collection Extensibility | From the Enterprise Manager home page, click the Enterprise menu, then Configuration and Custom. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack. |
| File Synchronization | When viewing comparison results differences as described in the Configuration Compare feature, select the configuration specification in the tree on the left. Select Enable File Synchronization. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack for Oracle Database. |
| Schema Comparison | From the Enterprise Manager home page, click on Targets, Databases, and then select a Database. From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. 
If the Target Home Page is accessed directly or by other paths: 
From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. |
| Schema and Data Comparisons | From the Enterprise Manager home page, click on Targets, Databases, and then select a Database. From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. 
If the Target Home Page is accessed directly or by other paths: 
From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. |
<table>
<thead>
<tr>
<th>Licensed Page/Link</th>
<th>How to Access</th>
</tr>
</thead>
</table>
| Schema and Data Synchronization        | From the Enterprise Manager home page, click on Targets, Databases, and then select a Database. From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack.  
If the Target Home Page is accessed directly or by other paths:  
From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. |
| Copy Objects                           | From the Enterprise Manager home page, click on Targets, Databases, and then select a Database. From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack.  
If the Target Home Page is accessed directly or by other paths:  
From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. |
| Real-Time Schema Change Detection      | From the Enterprise Manager home page, click on Targets, Databases, and then select a Database. From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack.  
If the Target Home Page is accessed directly or by other paths:  
From the database home page, click on Schema, Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. |
| Real-time Configuration Change Detection and Compliance | From the Enterprise Manager home page, click the Enterprise menu and Compliance. All features, functions, links, buttons, and drill-downs associated with the Library, Results and Real-Time Observations pages are licensed as part of the Database Lifecycle Management Pack. |

**Licensed Reports**

The following reports are part of the Database Lifecycle Management Pack for Oracle Database. All reports in each of these sections are licensed as part of this pack. To access the reports go to the Enterprise Manager home page, click the Reports, Information Publisher Reports or BI Publisher Enterprise Reports.

The following reporting areas, reports, and sub-reports under Information Publisher Reports are licensed as part of the Database Lifecycle Management Pack:

- Compliance
- Deployment and Configuration
- Sample Host reports, Configuration Reports
- Security

The following reporting areas, reports and sub-reports under BI Publisher Enterprise Reports are licensed as part of the Database Lifecycle Management Pack:

- Compliance
- Deployment and Configuration
- Sample Host reports, Configuration Reports
- Security
Additional Licensed Features

With the purchase of the Database Lifecycle 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.

- Application Configuration Console
- The oplan Utility (The basic OPlan feature is free for everyone that has an Oracle Support contract. Use of OPlan metadata to drive orchestration logic from either Enterprise Manager or custom/third-party scripts is part of the Database Lifecycle Management Pack for Oracle Database.)
- Migrate to ASM
- Self Update

Licensed Command Line Interface Verbs

The following Enterprise Manager Command Line Interface (CLI) verbs are licensed as part of the Database Lifecycle Management Pack:

- associate_cs_targets
- clone_database
- config_compare
- config_db_service_target
- configure_log_archive_locations
- confirm_instance
- create_database
- describe_instance
- describe_procedure_input
- disable_config_history
- enable_config_history
- export_compliance_group
- export_compliance_standard_rule
- export_facet
- export_standard
- fix_compliance_state
- get_config_searches
- get_config_templates
- get_executions
- get_instance_data
- get_instance_status
- get_instances
- get_oms_config_property
- get_procedure_types
Licensed Repository Views

The following repository views are part of the Database Lifecycle Management Pack for Oracle Database:

- Compliance Views
  - MGMT$CCC_ALL_OBS_BUNDLES
  - MGMT$CCC_ALL_OBSERVATIONS
  - MGMT$CCC_DIAG_ANALYTICS
  - MGMT$CCC_DIAG_QUEUEBACKLOG
  - MGMT$COMPLIANCE_STANDARD
  - MGMT$COMPLIANCE_STANDARD_GROUP
  - MGMT$COMPLIANCE_STANDARD_RULE
  - MGMT$COMPOSITE_CS_EVAL_SUMMARY
  - MGMT$CS_ASM_DISKGRP_SETTINGS
  - MGMT$CS_DB_CONTROL_FILE_COUNT
  - MGMT$CS_DB_INIT_PARAMS
  - MGMT$CS_DB_RBS_IN_SYSTEM
  - MGMT$CS_DB_REC_SEG_SETTINGS
  - MGMT$CS_DB_REC_TS_SETTINGS
Oracle Management Packs

- MGMT$CS_DB_REC_USER_SETTINGS
- MGMT$CS_DB_REDO_LOG_COUNT
- MGMT$CS_DB_REDO_LOGS
- MGMT$CS_DB_TABLESPACES
- MGMT$CS_DB_TBSP_SEGSPACE_MGMT
- MGMT$CS_EVAL_SUMMARY
- MGMT$CS_FEATURE_USAGE
- MGMT$CS_GROUP_EVAL_SUMMARY
- MGMT$CS_GROUP_KEYWORD
- MGMT$CS_HA_INFO
- MGMT$CS_HIERARCHY
- MGMT$CS_KEYWORD
- MGMT$CS_RQS_HIERARCHY
- MGMT$CS_RULE_ATTRS
- MGMT$CS_RULE_EVAL_SUMMARY
- MGMT$CS_RULEFOLDER
- MGMT$CS_TARGET_ASSOC
- MGMT$CS_TGT_ASSOC_TXF_REQ
- MGMT$CSG_HIERARCHY
- MGMT$CSG_SUBGROUP
- MGMT$CSR_CURRENT_VIOLATION
- MGMT$CSR_TARGET_ASSOC
- MGMT$CSR_VIOLATION_CONTEXT
- MGMT$CSRP_TARGET_ASSOC
- MGMT$EM_CS_RULE_EVENT_ERROR
- MGMT$EM_RULE_VIOL_CTXDEF
- MGMT$ICS_TARGET_ASSOC
- MGMT$REPO_RULE_CHK_DETAILS
- MGMT$REPOSITORY_RULE_BIND_VARS
- MGMT$REPOSITORY_RULE_PARAMS
- MGMT$RULE_KEYWORD

### Provisioning and Patching Views

- EM$PROV_APPTYPES
- EM$PROVAPP_METADATA
- EM$PROVAPP_METADATA_VERSION
- EM$PROVAPP_TAG_PROPERTIES
- EM$PROVAPP_TAGS
- Patching Views
  - GC$EM_PC_PLAN_PATCHES
  - GC$EM_PC_PLANS
  - GC$EM_PC_PLAN_TARGETS
  - GC_PC_EXECUTION_INSTANCES
  - GC_PC_PLAN_ANALYSIS_RS
  - GC_PC_PLAN_REMEDY
  - GC_PC_PLAN_REMEDY_DETAILS
  - GC_PC_PLAN_USERS
  - GC_PC_TARGETS
  - MGMT$APPLIED_PATCHES
  - MGMT$APPLIED_PATCHSETS
  - MGMT$ARU_FAMILY_PRODUCT_MAP
  - MGMT$ARU_LANGUAGES
  - MGMT$ARU_PATCH_RECOMMENDATIONS
  - MGMT$ARU_PLATFORMS
  - MGMT$ARU_PRODUCT_RELEASE_MAP
  - MGMT$ARU_PRODUCTS
  - MGMT$ARU_RELEASES
  - MGMT$ARU_TARGETS
  - MGMT$PA_AFFTED_HOST_GUID_OH
  - MGMT$PA_AFFTED_HOST_OH
  - MGMT$PA_AFFTED_TARGETS
  - MGMT$PA_FINAL_PATCH_LIST
  - MGMT$PA_TARGET_MAPPING
  - MGMT$PR_APPL_PATCHES_TO_OH
  - MGMT$PR_APPL_PATCHES_TO_OH_TGT
  - MGMT$PR_HOME_INFO
  - MGMT$PR_HOMES_AFFECTED_COUNT
  - MGMT$RECOM_METRIC_SOURCE

- Configuration Views
  - GC$ECM_COMP_PROPERTIES
  - GC$ECM_CONFIG_SUMMARY
  - GC$ECM_CURR_CONFIG
  - GC$ECM_CURR_CONFIG_FLAT_MEMS
  - GC$ECM_CURR_CONFIG_SNAPSHOTS
- GC$ECM_CURR_TARGET_SNAPSHOTS
- GC$ECM_DATA_RETENTION_TIME
- GC$ECM_GEN_SNAPSHOT
- GC$ECM_SAVED_CONFIG
- GC$ECM_SAVED_CONFIG_FLAT_MEMS
- GC$ECM_SAVED_CONFIG_SNAPSHOTS
- GC$ECM_SAVED_CONFIG_TARGETS
- GC$ECM_SAVED_TARGET_SNAPSHOTS
- MGMT$CCS_DATA
- MGMT$CCS_DATA_SOURCE
- MGMT$CCS_DATA_SOURCE_VISIBLE
- MGMT$CCS_DATA_VISIBLE
- MGMT$DB_CONTROLFILES
- MGMT$DB_DATAFILES
- MGMT$DB_DBNINSTANCEINFO
- MGMT$DB_FEATUREUSAGE
- MGMT$DB_INIT_PARAMS
- MGMT$DB_LICENSE
- MGMT$DB_OPTIONS
- MGMT$DB_REDOLOGS
- MGMT$DB_ROLLBACK_SEGS
- MGMT$DB_SGA
- MGMT$DB_TABLESPACES
- MGMT$DB_TABLESPACES_ALL
- MGMT$ECM_CMP_JOB_LAST_RESULTS
- MGMT$ECM_CMP_JOBS
- MGMT$ECM_CMP_RPT_CCS_DS
- MGMT$ECM_CMP_RPT_CCS_DS_DTLS
- MGMT$ECM_CMP_RPT_CCS_PD_ALL
- MGMT$ECM_CMP_RPT_CCS_PD_DIFFS
- MGMT$ECM_CMP_RPT_CI_DIFFS
- MGMT$ECM_CMP_VISIBLE_CONFIGS
- MGMT$ECM_CURRENT_SNAPSHOTS
- MGMT$ECM_VISIBLE_SNAPSHOTS
- MGMT$SERVICETAG_INSTANCES
- MGMT$SERVICETAG_REGISTRY
- MGMT$UNPATCHABLE_DB_TARGETS

Oracle Management Packs
Oracle Home Patching Views

- MGMT$APPLIED_PATCHES
- MGMT$APPLIED_PATCHSET
- MGMT$APPL_PATCH_AND_PATCHSET
- MGMT$CPF_ADVISORY_INFO
- MGMT$CPF_HOMES_INFO
- MGMT$CPF_PATCH_INFO
- MGMT$EM_HOMES_PLATFORM
- MGMT$HOMES_AFFECTED
- MGMT$OH_CLONE_PROPERTIES
- MGMT$OH_COMP_DEPENDENCY
- MGMT$OH_COMP_INST_TYPE
- MGMT$OH_COMPONENT
- MGMT$OH_CRS_NODES
- MGMT$OH_DEP_HOMES
- MGMT$OH_FILE
- MGMT$OH_HOME_INFO
- MGMT$OH_INSTALLED_TARGETS
- MGMT$OH_INV_SUMMARY
- MGMT$OH_PATCH
- MGMT$OH_PATCHED_COMPONENT
- MGMT$OH_PATCHED_FILE
- MGMT$OH_PATCH_FIXED_BUG
- MGMT$OH_PATCHSET
- MGMT$OH_VERSIONED_PATCHV
- MGMT$PATCH_ADVISORIES

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
Oracle Management Packs

Options and Packs

- 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$CSA_HOST_COOKIES
- MGMT$CSA_HOST_CPUS
- MGMT$CSA_HOST_CUSTOM
- MGMT$CSA_HOST_IOCARDS
- MGMT$CSA_HOST_NICS
- MGMT$CSA_HOST_OS_COMPONENTS
- MGMT$CSA_HOST_OS_FILESYSEMS
- MGMT$CSA_HOST_OS_PROPERTIES
- MGMT$CSA_HOST_RULES
- MGMT$CSA_HOST_SW
- MGMT$ECM_CONFIG_HISTORY

Oracle Diagnostics Pack

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

Features

Oracle Diagnostics Pack includes the following features:

- Performance monitoring and diagnostics (database and host)
- Automatic Workload Repository (AWR)
- AWR Warehouse
- Automatic Database Diagnostic Monitor (ADDM)
- Compare Period ADDM
- Real Time ADDM
- Active Session History (ASH)
- ASH analytics
- Performance Hub
- Exadata Cell Grid Administration
- Exadata Cell Grid Performance
- Exadata Cell Group Health Overview page
- Exadata Resource Utilization
- Blackouts
- Notifications
- Metric and Alert/Event history
- User-Defined Metrics and Metric Extensions
- Management Connectors
- Dynamic metric baselines and Adaptive metric thresholds
- Monitoring templates and Template Collections
- Replay Compare Period Report
- Supporting functionality to perform per stream bottleneck detection and per component top wait event analysis

In order to use the features listed above, you must purchase licenses for 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.

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

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

- This will take you to the **Management Pack Access** page, which allows you to grant and remove access from all the management packs.
  - For Enterprise Manager Database Control, click the **Remove Access** radio button for the Diagnostics Pack and click **Apply**.
  - For Enterprise Manager Cloud Control, click the appropriate check box for the Diagnostics Pack and click **Apply**.
This procedure disables all the links and tabs associated with Oracle Diagnostics Pack in Enterprise Manager. All the disabled links and tabs are part of Oracle Diagnostics Pack and therefore require a pack license.

**Licensed Command-Line APIs**

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

- The `DBMS_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:

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

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

  ```sql
  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 `TASK_NAME` column or a value of `ADDM*` in 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`, `awrgrtpt.sql`, `awrgdrpt.sql`, `awrgdrt.sql`, `addmrpt.sql`, `addmrpti.sql`, `ashrpt.sql`, `ashrpti.sql`, `awlrddrpt.sql`, `awlrdri.sql`, `awlrrac.sql`, `awrsqrpt.sql`, `awrextr.sql`, `awrload.sql`, `awrinfo.sql`, `spawrio.sql`, and `spawrrac.sql`.

**Licensed Repository Views**

- Monitoring Views
  - `MGMT$ALERT_ANNOTATIONS`
  - `MGMT$ALERT_CURRENT`
  - `MGMT$ALERT_HISTORY`
Oracle Management Packs

- MGMT$ALERT_NOTIFY_LOG
- MGMT$AVAILABILITY_CURRENT
- MGMT$AVAILABILITY_HISTORY
- MGMT$BLACKOUT_HISTORY
- MGMT$BLACKOUTS
- MGMT$METRIC_COLLECTIONS
- MGMT$ALERT_CURRENT
- MGMT$METRIC_DAILY
- MGMT$METRIC_DETAILS
- MGMT$METRIC_HOURLY
- MGMT$TARGET_METRIC_COLLECTIONS
- MGMT$TARGET_METRIC_SETTINGS

Template Views
- MGMT$TEMPLATES
- MGMT$TEMPLATE_METRIC_COLLECTION
- MGMT$TEMPLATE_METRIC_SETTINGS
- MGMT$TEMPLATE_POLICY_SETTINGS

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.

Features
Oracle Tuning Pack includes the following features:

- SQL Access Advisor
- SQL Tuning Advisor
- Oracle Database In-Memory Advisor
- Automatic SQL Tuning
- SQL Profiles
- Real-time SQL and PL/SQL Monitoring
- Real-time Database Operations Monitoring
- Reorganize objects

A new initialization parameter, CONTROL_MANAGEMENT_PACK_ACCESS, is introduced to control access to Oracle Diagnostics Pack and Oracle Tuning Pack in the database server. This parameter can be set to one of three values:

- DIAGNOSTIC+TUNING: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is enabled in the database server.
Checking for Database Option and Management Pack Usage

- **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.

**Licensed Links**

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

- When you click the Setup link, the navigation bar contains the Management Pack Access link. Click this link.
- This will take you to the Management Pack Access page, 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 Cloud Control, click the appropriate check box for the Tuning Pack and click Apply.

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

**Licensed Command-Line APIs**

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

- **DBMS_ADVISOR**, when the value of the advisor_name parameter is either SQL Tuning Advisor or SQL Access Advisor.
- **DBMS_SQLTUNE** (See Note)
- **V$SQL_MONITOR**
- **V$SQL_PLAN_MONITOR**
- The following report found in the /rdbms/admin/ directory of the Oracle home directory is part of this pack: sqltrpt.sql.

**Note**: If you are licensed for Oracle Database Enterprise Edition, then you can use certain subprograms of the DBMS_SQLTUNE package even if you do not have an Oracle Tuning Pack license. See the SQL Tuning Sets entry in Table 1–1 for more information.

Checking for Database Option and Management Pack Usage

Oracle provides the script `options_packs_usage_statistics.sql`, which enables you to check database option and management pack usage on your database. This script lists, in two distinct sections:

- Database option and management pack usage
- Features used by each database option and management pack

You can obtain the script from My Oracle Support as follows:

1. Use a Web browser to view the My Oracle Support Web site:
2. Log in to My Oracle Support.
   If you are not a My Oracle Support registered user, then click **Register** and follow the registration instructions.

3. Search for Document ID 1317265.1, or access it directly at the following URL:
   https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=1317265.1

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

---

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

---

**Other Oracle Products**

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

- **Oracle Database Mobile Server**
- **Oracle Programmer**
- **Oracle Secure Backup**

**Oracle Database Mobile Server**

Oracle Database Mobile Server is a powerful tool for controlling networks of mobile or embedded devices from a centralized management console. It provides a secure, scalable method for connecting applications running locally on mobile or embedded devices to an Oracle enterprise backend. The synchronization system is robust and fault tolerant. It is able to successfully synchronize over unreliable or intermittently available networks. Oracle Database Mobile Server provides management for applications, users, and devices. It runs on a variety of application server platforms, including Oracle WebLogic, Oracle Glassfish, and Apache TomEE.

On the client device side, it is designed to work with Oracle Berkeley DB as a data store, providing efficient, reliable, and secure data management running locally on mobile and embedded devices. It is also compatible with SQLite, a widely used open source data store. Database Mobile Server supports many popular device platforms including Oracle Java, Linux, Windows (laptop as well as mobile/CE), and Android.

**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:

- Embedded SQL-style interfaces: Pro*C/C++, Pro*COBOL, Pro*Fortran, SQL*Module for Ada, SQLJ
- Utilities to generate host-language bindings from database schemas: Object Type Translator and JPub

**Oracle Secure Backup**

Oracle Secure Backup is a centralized tape backup management solution providing high performance, heterogeneous data protection in distributed UNIX, Linux, Windows, and Network Attached Storage (NAS) environments. Protecting file-system and Oracle Database data, Oracle Secure Backup provides a complete tape backup solution for your IT environment. In addition to tape backup, Oracle Secure Backup delivers an integrated Oracle Database backup to third-party cloud (Internet) storage, through the Oracle Secure Backup Cloud Module.

Oracle Secure Backup offers the following two tape management editions, each suitable for different development and deployment scenarios:

- **Oracle Secure Backup** is ideally suited for distributed environments consisting of multiple servers with advanced data protection requirements such as encryption, rotation of tapes between multiple locations, and protection of NAS devices.
- **Oracle Secure Backup Express** edition provides reliable data protection for single-server Oracle Database environments. Oracle Secure Backup Express is available free with the Oracle Database and is the same core product as Oracle Secure Backup. The Express edition is limited to a single host with one direct-attached tape drive and has some restrictions on advanced feature usage. Refer to the [Oracle Secure Backup Licensing Information](#) for additional information.

The Oracle Secure Backup Cloud Module provides Oracle Database backup to cloud storage using Recovery Manager (RMAN) and is independent of the Oracle Secure Backup tape management editions. The Oracle Secure Backup Cloud Module can be used as a complement or replacement for the Oracle Secure Backup tape management solution or other third-party media-management products.
This appendix contains the following section:

- Third-Party Product Licensing for Oracle Database
Third-Party Product Licensing for Oracle Database

The following software may be included in Oracle Database 12c Release 1 (12.1):

CS CodeViewer v1.0; Use of any of this software is governed by the terms of the license below:

Copyright 1999 by CoolServlets.com

Any errors or suggested improvements to this class can be reported as instructed on CoolServlets.com. We hope you enjoy this program... your comments will encourage further development! This software is distributed under the terms of The BSD License. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

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

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither name of CoolServlets.com nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY COOLSERVLETS.COM AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following software may be included in this product: Crimson v1.1.1; Use of any of this software is governed by the terms of the license below:

{Name of Product} Copyright (c) {Date} {The Apache Software Foundation.} {Make sure it is only Apache Software Foundation; otherwise enter the other party’s name(s)}
All rights reserved. Licensed under the Apache 1.1 License Agreement.

4. The names "Crimson" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software nor may "Apache" appear in their name, without prior written permission. For written permission, please contact apache@apache.org.

This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation and was originally based on software copyright (c) 1999, International Business Machines, Inc., http://www.ibm.com.

The following software may be included in this product: Xalan J2; Use of any of this software is governed by the terms of the Apache License Version 2.0.

The following software may be included in this product: NSIS 1.0j; Use of any of this software is governed by the terms of the license below:

Copyright (C) 1999-2000 Nullsoft, Inc.
This software is provided ‘as-is’, without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software. Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

Justin Frankel justin@nullsoft.com

Some Portions licensed from IBM are available at:
http://www.ibm.com/software/globalization/icu/

Portions Copyright Eastman Kodak Company 1992

Lucida is a registered trademark or trademark of Bigelow & Holmes in the U.S. and other countries.

Portions licensed from Taligent, Inc.

The following software may be included in this product: IAIK PKCS Wrapper; Use of any of this software is governed by the terms of the license below:

Copyright (c) 2002 Graz University of Technology. All rights reserved.

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

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

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:

   "This product includes software developed by IAIK of Graz University of Technology."

   Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

4. The names "Graz University of Technology" and "IAIK of Graz University of Technology" must not be used to endorse or promote products derived from this software without prior written permission.

5. Products derived from this software may not be called "IAIK PKCS Wrapper", nor may "IAIK" appear in their name, without prior written permission of Graz University of Technology.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE LICENSOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following software may be included in this product: Document Object Model (DOM) v. Level 3; Use of any of this software is governed by the terms of the license below:

W3C SOFTWARE NOTICE AND LICENSE
http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other related items) is being provided by the copyright holders under the following license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions.

Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

1. The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.

2. Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.

3. Notice of any changes or modifications to the files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

This formulation of W3C's notice and license became active on December 31 2002. This version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". Otherwise, this version is the same as the previous version and is written so as to preserve the Free Software Foundation's
assessment of GPL compatibility and OSI’s certification under the Open Source Definition. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

The following software may be included in this product: Xalan, Xerces; Use of any of this software is governed by the terms of the Apache Software License, Version 1.1 Copyright (c) 1999-2003, The Apache Software Foundation. All rights reserved.

The names "Xerces" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software nor may "Apache" appear in their name without prior written permission. For written permission, please contact apache@apache.org.

Products derived from this software may not be called "Apache", without prior written permission of the Apache Software Foundation.

This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation and was originally based on software copyright (c) 1999, International Business Machines, Inc., http://www.ibm.com. For more information on the Apache Software Foundation, please see http://www.apache.org/.

The following software may be included in this product: W3C XML Conformance Test Suites v. 20020606; Use of any of this software is governed by the terms of the license below:

W3C SOFTWARE NOTICE AND LICENSE


This W3C work (including software, documents, or other related items) is being provided by the copyright holders under the following license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications, that you make:

1. The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.

2. Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, a short notice of the following form (hypertext is preferred, text is permitted) should be used within the body of any redistributed or derivative code: "Copyright [date-of-software] World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved. http://www.w3.org/Consortium/Legal/"

3. Notice of any changes or modifications to the W3C files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF
MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY
THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT,
SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE
SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or
publicity pertaining to the software without specific, written prior permission. Title to
copyright in this software and any associated documentation will at all times remain
with copyright holders.

This formulation of W3C's notice and license became active on August 14 1998 so as to
improve compatibility with GPL. This version ensures that W3C software licensing
terms are no more restrictive than GPL and consequently W3C software may be
distributed in GPL packages. See the older formulation for the policy prior to this date.
Please see our Copyright FAQ for common questions about using materials from our
site, including specific terms and conditions for packages like libwww, Amaya, and
Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

The following software may be included in this product: W3C XML Schema Test
Collection v. 1.16.2; Use of any of this software is governed by the terms of the license
below:

W3C DOCUMENT NOTICE AND LICENSE

Copyright 1994-2002 World Wide Web Consortium, (Massachusetts Institute of
Technology, Institut National de Recherche en Informatique et en Automatique, Keio
University). All Rights Reserved. http://www.w3.org/Consortium/Legal/

Public documents on the W3C site are provided by the copyright holders under the
following license. The software or Document Type Definitions (DTDs) associated with
W3C specifications are governed by the Software Notice. By using and/or copying this
document, or the W3C document from which this statement is linked, you (the
licensee) agree that you have read, understood, and will comply with the following
terms and conditions:

Permission to use, copy, and distribute the contents of this document, or the W3C
document from which this statement is linked, in any medium for any purpose and
without fee or royalty is hereby granted, provided that you include the following on
ALL copies of the document, or portions thereof, that you use:

1. A link or URL to the original W3C document.

2. The pre-existing copyright notice of the original author, or if it doesn't exist, a
   notice of the form: "Copyright [date-of-document] World Wide Web Consortium,
   (Massachusetts Institute of Technology, Institut National de Recherche en
   Informatique et en Automatique, Keio University). All Rights Reserved.
   http://www.w3.org/Consortium/Legal/" (Hypertext is preferred, but a textual
   representation is permitted.)

3. If it exists, the STATUS of the W3C document.

When space permits, inclusion of the full text of this NOTICE should be provided. We
request that authorship attribution be provided in any software, documents, or other
items or products that you create pursuant to the implementation of the contents of
this document, or any portion thereof.
No right to create modifications or derivatives of W3C documents is granted pursuant to this license. However, if additional requirements (documented in the Copyright FAQ) are satisfied, the right to create modifications or derivatives is sometimes granted by the W3C to individuals complying with those requirements.

THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR THAT THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE DOCUMENT OR THE PERFORMANCE OR IMPLEMENTATION OF THE CONTENTS THEREOF.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to this document or its contents without specific, written prior permission. Title to copyright in this document will at all times remain with copyright holders.

This formulation of W3C's notice and license became active on April 05 1999 so as to account for the treatment of DTDs, schema's and bindings. See the older formulation for the policy prior to this date. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org. webmaster (last updated by reagle on 1999/04/99.)

The following software may be included in this product: Mesa 3-D graphics library v. 5; Use of any of this software is governed by the terms of the license below:

<table>
<thead>
<tr>
<th>Component</th>
<th>License File</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>core Mesa code</td>
<td>include/GL/gl.h</td>
<td>Brian Paul</td>
</tr>
<tr>
<td>Mesa GLX driver</td>
<td>include/GL/glx.h</td>
<td>Brian Paul</td>
</tr>
<tr>
<td>Mesa Ext registry</td>
<td>include/GL/glext.h</td>
<td>SGI</td>
</tr>
<tr>
<td>SGI Free B</td>
<td>include/GL/glxext.h</td>
<td></td>
</tr>
</tbody>
</table>

Mesa license:

The Mesa distribution consists of several components. Different copyrights and licenses apply to different components. For example, GLUT is copyrighted by Mark Kilgard, some demo programs are copyrighted by SGI, some of the Mesa device drivers are copyrighted by their authors. See below for a list of Mesa's components and the copyright/license for each.

The core Mesa library is licensed according to the terms of the XFree86copyright (an MIT-style license). This allows integration with the XFree86/DRIproject. Unless otherwise stated, the Mesa source code and documentation is licensed as follows:

Copyright (C) 1999-2003 Brian Paul All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL BRIAN PAUL BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

SGI FREE SOFTWARE LICENSE B (Version 1.1 [02/22/2000])

1. Definitions.

1.1 "Additional Notice Provisions" means such additional provisions as appear in the Notice in Original Code under the heading "Additional Notice Provisions."

1.2 "Covered Code" means the Original Code or Modifications, or any combination thereof.

1.3 "Hardware" means any physical device that accepts input, processes input, stores the results of processing, and/or provides output.

1.4 "Larger Work" means a work that combines Covered Code or portions thereof with code not governed by the terms of this License.

1.5 "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.6 "License" means this document.

1.7 "Licensed Patents" means patent claims Licensable by SGI that are infringed by the use or sale of Original Code or any Modifications provided by SGI, or any combination thereof.

1.8 "Modifications" means any addition to or deletion from the substance or structure of the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is: A. Any addition to the contents of a file containing Original Code and/or addition to or deletion from the contents of a file containing previous Modifications. B. Any new file that contains any part of the Original Code or previous Modifications.

1.9 "Notice" means any notice in Original Code or Covered Code, as required by and in compliance with this License.

1.10 "Original Code" means source code of computer software code that is described in the source code Notice required by Exhibit A as Original Code, and updates and error corrections specifically thereto.

1.11 "Recipient" means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 8. For legal entities, "Recipient" includes any entity that controls, is controlled by, or is under common control with Recipient. For purposes of this definition, "control" of an entity means (a) the power, direct or indirect, to direct or manage such entity, or (b) ownership of fifty percent (50%) or more of the outstanding shares or beneficial ownership of such entity.

1.12 "Recipient Patents" means patent claims Licensable by a Recipient that are infringed by the use or sale of Original Code or any Modifications provided by SGI, or any combination thereof.
1.13 “SGI” means Silicon Graphics, Inc.

1.14 “SGI Patents” means patent claims Licensable by SGI other than the Licensed Patents.

2. License Grant and Restrictions.

2.1 SGI License Grant. Subject to the terms of this License and any third party intellectual property claims, for the duration of intellectual property protections inherent in the Original Code, SGI hereby grants Recipient a worldwide, royalty-free, non-exclusive license, to do the following: (i) under copyrights Licensable by SGI, to reproduce, distribute, create derivative works from, and, to the extent applicable, display and perform the Original Code and/or any Modifications provided by SGI alone and/or as part of a Larger Work; and (ii) under any Licensable Patents, to make, have made, use, sell, offer for sale, import and/or otherwise transfer the Original Code and/or any Modifications provided by SGI. Recipient accepts the terms and conditions of this License by undertaking any of the aforementioned actions. The patent license shall apply to the Covered Code if, at the time any related Modification is added, such addition of the Modification causes such combination to be covered by the Licensed Patents. The patent license in Section 2.1(ii) shall not apply to any other combinations that include the Modification. No patent license is provided under SGI Patents for infringements of SGI Patents by Modifications not provided by SGI or combinations of Original Code and Modifications not provided by SGI.

2.2 Recipient License Grant. Subject to the terms of this License and any third party intellectual property claims, Recipient hereby grants SGI and any other Recipients a worldwide, royalty-free, non-exclusive license, under any Recipient Patents, to make, have made, use, sell, offer for sale, import and/or otherwise transfer the Original Code and/or any Modifications provided by SGI.

2.3 No License For Hardware Implementations. The licenses granted in Section 2.1 and 2.2 are not applicable to implementation in Hardware of the algorithms embodied in the Original Code or any Modifications provided by SGI.

3. Redistributions.

3.1 Retention of Notice/Copy of License. The Notice set forth in Exhibit A, below, must be conspicuously retained or included in any and all redistributions of Covered Code. For distributions of the Covered Code in source code form, the Notice must appear in every file that can include a text comments field; in executable form, the Notice and a copy of this License must appear in related documentation or collateral where the Recipient’s rights relating to Covered Code are described. Any Additional Notice Provisions which actually appears in the Original Code must also be retained or included in any and all redistributions of Covered Code.

3.2 Alternative License. Provided that Recipient is in compliance with the terms of this License, Recipient may, so long as without derogation of any of SGI’s rights in and to the Original Code, distribute the source code and/or executable version(s) of Covered Code under (1) this License; (2) a license identical to this License but for only such changes as are necessary in order to clarify Recipient’s role as licensor of Modifications; and/or (3) a license of Recipient’s choosing, containing terms different from this License, provided that the license terms include this Section 3 and Sections 4, 6, 7, 10, 12, and 13, which terms may not be modified or superseded by any other terms of such license. If Recipient elects to use any license other than this License, Recipient must make it absolutely clear that any of its terms which differ from this License are offered by Recipient alone, and not by SGI. It is emphasized that this License is a limited license, and, regardless of the license form employed by Recipient in accordance with this Section 3.2, Recipient may relicense only such rights, in
Original Code and Modifications by SGI, as it has actually been granted by SGI in this License.

3.3 Indemnity. Recipient hereby agrees to indemnify SGI for any liability incurred by SGI as a result of any such alternative license terms Recipient offers.

4. Termination. This License and the rights granted hereunder will terminate automatically if Recipient breaches any term herein and fails to cure such breach within 30 days thereof. Any sublicense to the Covered Code that is properly granted shall survive any termination of this License, absent termination by the terms of such sublicense. Provisions that, by their nature, must remain in effect beyond the termination of this License, shall survive.

5. No Trademark Or Other Rights. This License does not grant any rights to: (i) any software apart from the Covered Code, nor shall any other rights or licenses not expressly granted hereunder arise by implication, estoppel or otherwise with respect to the Covered Code; (ii) any trade name, trademark or service mark whatsoever, including without limitation any related right for purposes of endorsement or promotion of products derived from the Covered Code, without prior written permission of SGI; or (iii) any title to or ownership of the Original Code, which shall at all times remain with SGI. All rights in the Original Code not expressly granted under this License are reserved.

6. Compliance with Laws; Non-Infringement. There are various worldwide laws, regulations, and executive orders applicable to dispositions of Covered Code, including without limitation export, re-export, and import control laws, regulations, and executive orders, of the U.S. government and other countries, and Recipient is reminded it is obliged to obey such laws, regulations, and executive orders. Recipient may not distribute Covered Code that (i) in any way infringes (directly or contributorily) any intellectual property rights of any kind of any other person or entity or (ii) breaches any representation or warranty, express, implied or statutory, to which, under any applicable law, it might be deemed to have been subject.

7. Claims of Infringement. If Recipient learns of any third party claim that any disposition of Covered Code and/or functionality wholly or partially infringes the third party’s intellectual property rights, Recipient will promptly notify SGI of such claim.

8. Versions of the License. SGI may publish revised and/or new versions of the License from time to time, each with a distinguishing version number. Once Covered Code has been published under a particular version of the License, Recipient may, for the duration of the license, continue to use it under the terms of that version, or choose to use such Covered Code under the terms of any subsequent version published by SGI. Subject to the provisions of Sections 3 and 4 of this License, only SGI may modify the terms applicable to Covered Code created under this License.

9. DISCLAIMER OF WARRANTY. COVERED CODE IS PROVIDED "AS IS." ALL EXPRESS AND IMPLIED WARRANTIES AND CONDITIONS ARE DISCLAIMED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. SGI ASSUMES NO RISK AS TO THE QUALITY AND PERFORMANCE OF THE SOFTWARE. SHOULD THE SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, SGI ASSUMES NO COST OR LIABILITY FOR SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY IS AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT SUBJECT TO THIS DISCLAIMER.
10. LIMITATION OF LIABILITY. UNDER NO CIRCUMSTANCES NOR LEGAL THEORY, WHETHER TORT (INCLUDING, WITHOUT LIMITATION, NEGLIGENCE OR STRICT LIABILITY), CONTRACT, OR OTHERWISE, SHALL SGI OR ANY SGI LICENSOR BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, LOSS OF DATA, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SGI'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THAT EXCLUSION AND LIMITATION MAY NOT APPLY TO RECIPIENT.

11. Indemnity. Recipient shall be solely responsible for damages arising, directly or indirectly, out of its utilization of rights under this License. Recipient will defend, indemnify and hold harmless Silicon Graphics, Inc. from and against any loss, liability, damages, costs or expenses (including the payment of reasonable attorneys fees) arising out of Recipient's use, modification, reproduction and distribution of the Covered Code or out of any representation or warranty made by Recipient.

12. U.S. Government End Users. The Covered Code is a "commercial item" consisting of "commercial computer software" as such terms are defined in title 48 of the Code of Federal Regulations and all U.S. Government End Users acquire only the rights set forth in this License and are subject to the terms of this License.

13. Miscellaneous. This License represents the complete agreement concerning the its subject matter. If any provision of this License is held to be unenforceable, such provision shall be reformed so as to achieve as nearly as possible the same legal and economic effect as the original provision and the remainder of this License will remain in effect. This License shall be governed by and construed in accordance with the laws of the United States and the State of California as applied to agreements entered into and to be performed entirely within California between California residents. Any litigation relating to this License shall be subject to the exclusive jurisdiction of the Federal Courts of the Northern District of California (or, absent subject matter jurisdiction in such courts, the courts of the State of California), with venue lying exclusively in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation that provides that the language of a contract shall be construed against the drafter shall not apply to this License.

Exhibit A License Applicability. Except to the extent portions of this file are made subject to an alternative license as permitted in the SGI Free Software License B, Version 1.1 (the "License"), the contents of this file are subject only to the provisions of the License. You may not use this file except in compliance with the License. You may obtain a copy of the License at Silicon Graphics, Inc., attn: Legal Services, 1600 Amphitheatre Parkway, Mountain View, CA 94043-1351, or at: http://oss.sgi.com/projects/FreeB. Note that, as provided in the License, the Software is distributed on an "AS IS" basis, with ALL EXPRESS AND IMPLIED WARRANTIES AND CONDITIONS DISCLAIMED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.
Original Code. The Original Code is: [name of software, version number, and release date], developed by Silicon Graphics, Inc. The Original Code is Copyright (c) [dates of first publication, as appearing in the Notice in the Original Code] Silicon Graphics, Inc. Copyright in any portions created by third parties is as indicated elsewhere herein. All Rights Reserved. Additional Notice Provisions: [such additional provisions, if any, as appear in the Notice in the Original Code under the heading "Additional Notice Provisions"]

The following software may be included in this product:

This product includes software developed by the Apache Software Foundation (http://www.apache.org/). Byte Code Engineering Library (BCEL) v. 5; Use of any of this software is governed by the terms of the Apache Software License, Version 1.1 Copyright (c) 2001 The Apache Software Foundation. All rights reserved.

The names "Apache" and "Apache Software Foundation" and "Apache BCEL" must not be used to endorse or promote products derived from this software nor may "Apache" appear in their name, without prior written permission. For written permission, please contact apache@apache.org.

This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see http://www.apache.org./

The following software developed by the Apache Software Foundation (http://www.apache.org/) may be included in this product: Regexp, Regular Expression Package v. 1.2; Use of any of this software is governed by the terms of the Apache Software License, Version 1.1

Copyright (c) 2001 The Apache Software Foundation. All rights reserved.

The names "Apache" and "Apache Software Foundation" and "Apache Turbine" must not be used to endorse or promote products derived from this software nor may "Apache" appear in their name, without prior written permission. For written permission, please contact apache@apache.org.

This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see http://www.apache.org.

The following software may be included in this product: CUP Parser Generator for Java v. 0.10k; Use of any of this software is governed by the terms of the license below:

CUP Parser Generator Copyright Notice, License, and Disclaimer
Copyright 1996-1999 by Scott Hudson, Frank Flannery, C. Scott Ananian

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both the copyright notice and this permission notice and warranty disclaimer appear in supporting documentation, and that the names of the authors or their employers not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

The authors and their employers disclaim all warranties with regard to this software, including all implied warranties of merchantability and fitness. In no event shall the authors or their employers be liable for any special, indirect or consequential damages or any damages whatsoever resulting from loss of use, data or profits, whether in an action of contract, negligence or other tortious action, arising out of or in connection with the use or performance of this software.
The following software may be included in this product: JLex: A Lexical Analyzer Generator for Java v. 1.2.5; Use of any of this software is governed by the terms of the license below:

JLEX COPYRIGHT NOTICE, LICENSE AND DISCLAIMER.

Copyright 1996-2003 by Elliot Joel Berk and C. Scott Ananian

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both the copyright notice and this permission notice and warranty disclaimer appear in supporting documentation, and that the name of the authors or their employers not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

The authors and their employers disclaim all warranties with regard to this software, including all implied warranties of merchantability and fitness. In no event shall the authors or their employers be liable for any special, indirect or consequential damages or any damages whatsoever resulting from loss of use, data or profits, whether in an action of contract, negligence or other tortious action, arising out of or in connection with the use or performance of this software.

Java is a trademark of Oracle Corporation. References to the Java programming language in relation to JLex are not meant to imply that Oracle endorses this product.

The following software may be included in this product: SAX v. 2.0.1; Use of any of this software is governed by the terms of the license below:

Copyright Status
SAX is free!

In fact, it’s not possible to own a license to SAX, since it’s been placed in the public domain.

No Warranty

Because SAX is released to the public domain, there is no warranty for the design or for the software implementation, to the extent permitted by applicable law. Except when otherwise stated in writing the copyright holders and/or other parties provide SAX “as is” without warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The entire risk as to the quality and performance of SAX is with you. Should SAX prove defective, you assume the cost of all necessary servicing, repair or correction.

In no event unless required by applicable law or agreed to in writing will any copyright holder, or any other party who may modify and/or redistribute SAX, be liable to you for damages, including any general, special, incidental or consequential damages arising out of the use or inability to use SAX (including but not limited to loss of data or data being rendered inaccurate or losses sustained by you or third parties or a failure of the SAX to operate with any other programs), even if such holder or other party has been advised of the possibility of such damages.

Copyright Disclaimers

This page includes statements to that effect by David Megginson, who would have been able to claim copyright for the original work.

SAX 1.0

Version 1.0 of the Simple API for XML (SAX), created collectively by the membership of the XML-DEV mailing list, is hereby released into the public domain.
No one owns SAX: you may use it freely in both commercial and non-commercial applications, bundle it with your software distribution, include it on a CD-ROM, list the source code in a book, mirror the documentation at your own web site, or use it in any other way you see fit.

David Megginson, sax@megginson.com
1998-05-11

SAX 2.0

I hereby abandon any property rights to SAX 2.0 (the Simple API for XML), and release all of the SAX 2.0 source code, compiled code, and documentation contained in this distribution into the Public Domain. SAX comes with NO WARRANTY or guarantee of fitness for any purpose.

David Megginson, david@megginson.com
2000-05-05

The following software may be included in this product: Cryptix; Use of any of this software is governed by the terms of the license below:

Cryptix General License

Copyright © 1995-2003 The Cryptix Foundation Limited. All rights reserved.

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

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

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. THIS SOFTWARE IS PROVIDED BY THE CRYPTIX FOUNDATION LIMITED AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE CRYPTIX FOUNDATION LIMITED OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following software may be included in this product: W3C XML Schema Test Collection; Use of any of this software is governed by the terms of the license below:

W3C DOCUMENT NOTICE AND LICENSE


http://www.w3.org/Consortium/Legal/

Public documents on the W3C site are provided by the copyright holders under the following license. The software or Document Type Definitions (DTDs) associated with W3C specifications are governed by the Software Notice. By using and/or copying this
document, or the W3C document from which this statement is linked, you (the
licensee) agree that you have read, understood, and will comply with the following
terms and conditions:

Permission to use, copy, and distribute the contents of this document, or the W3C
document from which this statement is linked, in any medium for any purpose and
without fee or royalty is hereby granted, provided that you include the following on
ALL copies of the document, or portions thereof, that you use:

1. A link or URL to the original W3C document.

2. The pre-existing copyright notice of the original author, or if it doesn’t exist, a notice
   (Massachusetts Institute of Technology, Institut National deRecherche en Informatique
   et en Automatique, Keio University). All Rights Reserved.
   http://www.w3.org/Consortium/Legal/” (Hypertext is preferred, but a textual
   representation is permitted.)

3. If it exists, the STATUS of the W3C document.

When space permits, inclusion of the full text of this NOTICE should be provided. We
request that authorship attribution be provided in any software, documents, or other
items or products that you create pursuant to the implementation of the contents of
this document, or any portion thereof.

No right to create modifications or derivatives of W3C documents is granted pursuant
to this license. However, if additional requirements (documented in the Copyright
FAQ) are satisfied, the right to create modifications or derivatives is sometimes
granted by the W3C to individuals complying with those requirements.

THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO
REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT
NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE
CONTENTS OF THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR
THAT THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY
THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT,
SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE
DOCUMENT OR THE PERFORMANCE OR IMPLEMENTATION OF THE
CONTENTS THEREOF.

The name and trademarks of copyright holders may NOT be used in advertising or
publicity pertaining to this document or its contents without specific, written prior
permission. Title to copyright in this document will at all times remain with copyright
holders.

------------------------------------------------------------------------

This formulation of W3C’s notice and license became active on April 05 1999 so as to
account for the treatment of DTDs, schema’s and bindings. See the older formulation
for the policy prior to this date. Please see our Copyright FAQ for common questions
about using materials from our site, including specific terms and conditions for
packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be
directed to site-policy@w3.org. webmaster (last updated by reagle on 1999/04/99.)

The following software may be included in this product: Stax API; Use of any of this
software is governed by the terms of the license below:

Streaming API for XML (JSR-173) Specification
Reference Implementation

License Agreement

READ THE TERMS OF THIS (THE "AGREEMENT") CAREFULLY BEFORE VIEWING OR USING THE SOFTWARE LICENSED HEREUNDER. BY VIEWING OR USING THE SOFTWARE, YOU AGREE TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCESSING THE SOFTWARE ELECTRONICALLY, INDICATE YOUR ACCEPTANCE OF THESE TERMS BY SELECTING THE "ACCEPT" BUTTON AT THE END OF THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL THESE TERMS, PROMPTLY RETURN THE UNUSED SOFTWARE TO ORIGINAL CONTRIBUTOR, DEFINED HEREIN.

1.0 DEFINITIONS.


1.2. "Contributor" means BEA and each entity that creates or contributes to the creation of Modifications.

1.3. "Covered Code" means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof and corresponding documentation released with the source code.


1.5. "FCS" means first commercial shipment of a product.

1.6. "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

(a) Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

(b) Any new file that contains any part of the Original Code or previous Modifications.


1.8. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent for which the grantor has the right to grant a license.

1.9. "Reference Implementation" means the prototype or "proof of concept" implementation of the Specification developed and made available for license by or on behalf of BEA.

1.10. "Source Code" means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated documentation, interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice.

1.11. "Specification" means the written specification for the Streaming API for XML, Java technology developed pursuant to the Java Community Process.

1.12. "Technology Compatibility Kit" or "TCK" means the documentation, testing tools and test suites associated with the Specification as may be revised by BEA from time to time, that is provided so that an implementer of the Specification may determine if its implementation is compliant with the Specification.
1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this Agreement or a future version of this Agreement issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2.0 SOURCE CODE LICENSE.

2.1. Copyright Grant. Subject to the terms of this Agreement, each Contributor hereby grants You a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Covered Code of such Contributor, if any, and such derivative works, in Source Code and Executable form.

2.2. Patent Grant. Subject to the terms of this Agreement, each Contributor hereby grants You a non-exclusive, worldwide, royalty-free patent license under the Patent Claims to make, use, sell, offer to sell, import and otherwise transfer the Covered Code prepared and provided by such Contributor, if any, in Source Code and Executable form. This patent license shall apply to the Covered Code if, at the time a Modification is added by the Contributor, such addition of the Modification causes such combination to be covered by the Patent Claims. The patent license shall not apply to any other combinations which include the Modification.

2.3. Conditions to Grants. You understand that although each Contributor grants the licenses to the Covered Code prepared by it, no assurances are provided by any Contributor that the Covered Code does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to You for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, You hereby assume sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow You to distribute Covered Code, it is Your responsibility to acquire that license before distributing such code.

2.4. Contributors' Representation. Each Contributor represents that to its knowledge it has sufficient copyright rights in the Covered Code it provides, if any, to grant the copyright license set forth in this Agreement.

3.0 DISTRIBUTION RESTRICTIONS.

3.1. Application of Agreement.

The Modifications which You create or to which You contribute are governed by the terms of this Agreement, including without limitation Section 2.0. The Source Code version of Covered Code may be distributed only under the terms of this Agreement or a future version of this Agreement released under Section 6.1, and You must include a copy of this Agreement with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this Agreement or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.3.

3.2. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived,
directly or indirectly, from Original Code provided by BEA and including the name of
BEA in (a) the Source Code, and (b) in any notice in an Executable version or related
documentation in which You describe the origin or ownership of the Covered Code.

The following software may be included in this product: X Window System; Use of
any of this software is governed by the terms of the license below:

Copyright The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that the above
copyright notice appear in all copies and that both that copyright notice and this
permission notice appear in supporting documentation.

The above copyright notice and this permission notice shall be included in all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR
ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in
advertising or otherwise to promote the sale, use or other dealings in this Software
without prior written authorization from The Open Group.

Portions also covered by other licenses as noted in the above URL.

The following software may be included in this product: dom4j v. 1.6; Use of any of
this software is governed by the terms of the license below:

Redistribution and use of this software and associated documentation ("Software"),
with or without modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain copyright statements and notices.
   Redistributions must also contain a copy of this document.

2. Redistributions in binary form must reproduce the above copyright notice, this list
   of conditions and the following disclaimer in the documentation and/or other
   materials provided with the distribution.

3. The name "DOM4J" must not be used to endorse or promote products derived
   from this Software without prior written permission of MetaStuff, Ltd. For written
   permission, please contact dom4j-info@metastuff.com.

4. Products derived from this Software may not be called "DOM4J" nor may
   "DOM4J" appear in their names without prior written permission of MetaStuff,
   Ltd. DOM4J is a registered trademark of MetaStuff, Ltd.

5. Due credit should be given to the DOM4J Project - http://www.dom4j.org

THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS "AS
IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT
SHALL METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved.

The following software may be included in this product: Retroweaver; Use of any of this software is governed by the terms of the license below:

Copyright (c) February 2004, Toby Reyelts All rights reserved.

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

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither the name of Toby Reyelts nor the names of his contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following software may be included in this product: stripper; Use of any of this software is governed by the terms of the license below:

Stripper: debug information stripper Copyright (c) 2003 Kohsuke Kawaguchi All rights reserved.

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

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

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE...
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following software may be included in this product: libpng official PNG reference library; Use of any of this software is governed by the terms of the license below:

This copy of the libpng notices is provided for your convenience. In case of any discrepancy between this copy and the notices in the file png.h that is included in the libpng distribution, the latter shall prevail.

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE:

If you modify libpng you may insert additional notices immediately following this sentence.

libpng version 1.2.6, December 3, 2004, is Copyright (c) 2004 Glenn Randers-Pehrson, and is distributed according to the same disclaimer and license as libpng-1.2.5 with the following individual added to the list of Contributing Authors:
Cosmin Truta

libpng versions 1.0.7, July 1, 2000, through 1.2.5 - October 3, 2002, are Copyright (c) 2000-2002 Glenn Randers-Pehrson, and are distributed according to the same disclaimer and license as libpng-1.0.6 with the following individuals added to the list of Contributing Authors:
Simon-Pierre Cadieux
Eric S. Raymond
Gilles Vollant

and with the following additions to the disclaimer:
There is no warranty against interference with your enjoyment of the library or against infringement. There is no warranty that our efforts or the library will fulfill any of your particular purposes or needs. This library is provided with all faults, and the entire risk of satisfactory quality, performance, accuracy, and effort is with the user.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998, 1999 Glenn Randers-Pehrson, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:
Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996, 1997 Andreas Dilger Distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:
John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

libpng versions 0.5, May 1995, through 0.88, January 1996, are Copyright (c) 1995, 1996
Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors" is defined as
the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group
42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the
warranties of merchantability and of fitness for any purpose. The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect, incidental, special,
exemplary, or consequential damages, which may result from the use of the PNG
Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this source code, or
portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not be misrepresented
as being the original source.

3. This Copyright notice may not be removed or altered from any source or altered
source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and
encourage the use of this source code as a component to supporting the PNG file
format in commercial products. If you use this source code in a product,
acknowledgment is not required but would be appreciated.

A "png_get_copyright" function is available, for convenient use in "about" boxes and
the like:

printf("%s",png_get_copyright(NULL));

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and
"pngbar.jpg" (88x31) and "pngnow.png" (98x31).

Libpng is OSI Certified Open Source Software. OSI Certified Open Source is a
certification mark of the Open Source Initiative.

Glenn Randers-Pehrson
glennrp at users.sourceforge.net
December 3, 2004

The following software may be included in this product: Libungif - An uncompressed
GIF library; Use of any of this software is governed by the terms of the license below:

The GIFLIB distribution is Copyright (c) 1997 Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy of this
software and associated documentation files (the "Software"), to deal in the Software
without restriction, including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The following software may be included in this product: Ant; Use of any of this software is governed by the terms of the Apache Software License Version 2.0

The Apache Software License Version 2.0 applies to all releases of Ant starting with ant 1.6.1

This product includes also software developed by: - the W3C consortium (http://www.w3c.org), - the SAX project (http://www.saxproject.org)

Please read the different LICENSE files present in the root directory of this distribution.

The names "Ant" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org.

The Apache Software License, Version 1.1

The following software may be included in this product: Antl. Any use of this software is governed by the terms of the Apache License, Version 1.1.

The Apache Software License, Version 1.1, applies to all versions of up to ant 1.6.0 included.

The following software may be included in this product: XML Resolver library; Use of any of this software is governed by the terms of the Apache License Version 2.0.

The following software may be included in this product: ICU4J; Use of any of this software is governed by the terms of the license below:

ICU License - ICU 1.8.1 and later COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2003 International Business Machines Corporation and others
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

The following software may be included in this product: NekoHTML; Use of any of this software is governed by the terms of the license below:

The CyberNeko Software License, Version 1.0

(C) Copyright 2002,2003, Andy Clark. All rights reserved.

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

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

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:
   "This product includes software developed by Andy Clark."
   Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

4. The names "CyberNeko" and "NekoHTML" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact andy@cyberneko.net.

5. Products derived from this software may not be called "CyberNeko", nor may "CyberNeko" appear in their name, without prior written permission of the author.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR OTHER CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

================================================

This license is based on the Apache Software License, version 1.1

The following software may be included in this product: Jing; Use of any of this software is governed by the terms of the license below:

Jing Copying Conditions
Copyright (c) 2001-2003 Thai Open Source Software Center Ltd All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the Thai Open Source Software Center Ltd nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following software may be included in this product: RelaxNGCC; Use of any of this software is governed by the terms of the license below:

Copyright (c) 2000-2003 Daisuke Okajima and Kohsuke Kawaguchi. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:

"This product includes software developed by Daisuke Okajima and Kohsuke Kawaguchi (http://relaxngcc.sf.net/)."

Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.
4. The names of the copyright holders must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact the copyright holders.
5. Products derived from this software may not be called "RELAXNGCC", nor may "RELAXNGCC" appear in their name, without prior written permission of the copyright holders.
THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following software may be included in this product: RELAX NG Object Model/Parser; Use of any of this software is governed by the terms of the license below:

The MIT License

Copyright (c)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The following software may be included in this product: XFree86-VidMode Extension; Use of any of this software is governed by the terms of the license below:

Version 1.1 of Project License.

Copyright (C) 1994-2004 The Project, Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution, and in the same place and form as other copyright, license and disclaimer information.
3. The end-user documentation included with the redistribution, if any, must include
the following acknowledgment: "This product includes software developed by The
XFree86 Project, Inc (http://www.xfree86.org/) and its contributors", in the same
place and form as other third-party acknowledgments. Alternately, this
acknowledgment may appear in the software itself, in the same form and location
as other such third-party acknowledgments.

4. Except as contained in this notice, the name of The XFree86 Project, Inc shall not be
used in advertising or otherwise to promote the sale, use or other dealings in this
Software without prior written authorization from The XFree86 Project, Inc.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE XFREE86 PROJECT, INC OR ITS
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

The following software may be included in this product: RelaxNGCC; Use of any of
this software is governed by the terms of the license below:

This is version 2003-May-08 of the Info-ZIP copyright and license. The definitive
version of this document should be available at

Copyright (c) 1990-2003 Info-ZIP. All rights reserved.

For the purposes of this copyright and license, "Info-ZIP" is defined as the following
set of individuals:

Mark Adler, John Bush, Karl Davis, Harald Denker, Jean-Michel Dubois, Jean-loup
Gailly, Hunter Goatley, Ian Gorman, Chris Herborth, Dirk Haase, Greg Hartwig,
Robert Heath, Jonathan Hudson, Paul Kienitz, David Kirschbaum, Johnny Lee, Onno
van der Linden, Igor Mandrichenko, Steve P. Miller, Sergio Monesi, Keith Owens,
George Petrov, Greg Roelofs, Kai Uwe Rommel, Steve Salisbury, Dave Smith, Christian
Spiel, Antoine Verheijen, Paul von Behren, Rich Wales, Mike White

This software is provided "as is," without warranty of any kind, express or implied. In
no event shall Info-ZIP or its contributors be held liable for any direct, indirect,
incidental, special or consequential damages arising out of the use of or inability to use
this software.

Permission is granted to anyone to use this software for any purpose, including
commercial applications, and to alter it and redistribute it freely, subject to the
following restrictions:

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

2. Redistributions in binary form (compiled executables) must reproduce the above
    copyright notice, definition, disclaimer, and this list of conditions in
    documentation and/or other materials provided with the distribution. The sole
    exception to this condition is redistribution of a standard UnZipSFX binary
    (including SFXWiz) as part of a self-extracting archive; that is permitted without
inclusion of this license, as long as the normal SFX banner has not been removed from the binary or disabled.

3. Altered versions—excluding, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, and dynamic, shared, or static library versions—must be plainly marked as such and must not be misrepresented as being the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases—including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or of the Info-ZIP URL(s).


The following software may be included in this product: XML Security; Use of any of this software is governed by the terms of the Apache Software License, Version 1.1

Copyright (C) 2002 The Apache Software Foundation.

All rights reserved.

The names "Apache Forrest" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software nor may "Apache" appear in their name without prior written permission. For written permission, please contact apache@apache.org.

This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see http://www.apache.org.

The following software may be included in this product: Regexp, Regular Expression Package v. 1.2; Use of any of this software is governed by the terms of the Apache Software License, Version 1.1 Copyright (c) 2001 The Apache Software Foundation. All rights reserved.

The names "Apache" and "Apache Software Foundation" and "Apache Turbine" must not be used to endorse or promote products derived from this software, nor may "Apache" appear in their name, without prior written permission. For written permission, please contact apache@apache.org.

This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see http://www.apache.org.

The following software may be included in this product: zlib; Use of any of this software is governed by the terms of the license below:

zlib.h -- interface of the 'zlib' general purpose compression library version 1.1.3, July 9th, 1998

Copyright (C) 1995-1998 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:
1. The origin of this software must not be misrepresented; you must not claim that
   you wrote the original software. If you use this software in a product, an
   acknowledgment in the product documentation would be appreciated but is not
   required.

2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

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

The data format used by the zlib library is described by RFCs (Request for Comments)
1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt
(deflate format) and rfc1952.txt (gzip format).

The following software may be included in this product: Mozilla Rhino. Use of any of
this software is governed by the terms of the license below:

* The contents of this file are subject to the Netscape Public
  License Version 1.1 (the "License"); you may not use this file
  except in compliance with the License. You may obtain a copy of
  the License at http://www.mozilla.org/NPL/
*
* Software distributed under the License is distributed on an "AS
  IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or
  implied. See the License for the specific language governing
  rights and limitations under the License.
*
* The Original Code is Rhino code, released
* May 6, 1999.
*
* The Initial Developer of the Original Code is Netscape
  Communications Corporation. Portions created by Netscape are
  Copyright (C) 1997-2000 Netscape Communications Corporation. All
  Rights Reserved.
*
* Contributor(s):
  *
* Kemal Bayram
* Patrick Beard
* Norris Boyd
* Igor Bukanov, igor@mir2.org
* Brendan Eich
* Ethan Hugg
* Roger Lawrence
* Terry Lucas
* Mike McCabe
* Milen Nankov
* Attila Szegedi, szegedia@freemail.hu
* Ian D. Stewart
* Andi Vajda
* Andrew Wason
招呼

The following software may be included in this product: Apache Derby. Use of any of
this software is governed by the terms of the Apache License Version 2.0.

The following software may be included in this product:

UPX
Use of any of this software is governed by the terms of the license below:

-----BEGIN PGP SIGNED MESSAGE-----

ooooo     ooo ooooooooo.   ooooooo  ooooo
`888'     `8' `888   `Y88.  `8888    d8'
888       8   888   .d88'    Y888..8P
888       8   888oo88P'      `8888'
888       8   888       .8PY888.
`88.    .8'   888           d8'  `888b
`YbodP'    o888o        o888o  o88888o

The Ultimate Packer for eXecutables
Copyright (c) 1996-2000 Markus Oberhumer & Laszlo Molnar
http://wildsau.idv.uni-linz.ac.at/mfx/upx.html
http://www.nexus.hu/upx
http://upx.tsx.org

PLEASE CAREFULLY READ THIS LICENSE AGREEMENT, ESPECIALLY IF YOU PLAN
TO MODIFY THE UPX SOURCE CODE OR USE A MODIFIED UPX VERSION.

ABSTRACT
=========

UPX and UCL are copyrighted software distributed under the terms of the GNU
General Public License (hereinafter the "GPL").

The stub which is imbedded in each UPX compressed program is part of UPX and
UCL, and contains code that is under our copyright. The terms of the GNU General
Public License still apply as compressing a program is a special form of linking with
our stub.

As a special exception we grant the free usage of UPX for all executables, including
commercial programs. See below for details and restrictions.

COPYRIGHT
=========

UPX and UCL are copyrighted software. All rights remain with the authors.

UPX is Copyright (C) 1996-2000 Markus Franz Xaver Johannes Oberhumer
UPX is Copyright (C) 1996-2000 Laszlo Molnar

UCL is Copyright (C) 1996-2000 Markus Franz Xaver Johannes Oberhumer

GNU GENERAL PUBLIC LICENSE
============================

UPX and the UCL library are free software; you can redistribute them and/or modify
them under the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 of the License, or (at your option) any later
version.
UPX and UCL are distributed in the hope that they will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; see the file COPYING.

SPECIAL EXCEPTION FOR COMPRESSED EXECUTABLES

The stub which is imbedded in each UPX compressed program is part of UPX and UCL, and contains code that is under our copyright. The terms of the GNU General Public License still apply as compressing a program is a special form of linking with our stub.

Hereby Markus F.X.J. Oberhumer and Laszlo Molnar grant you special permission to freely use and distribute all UPX compressed programs (including commercial ones), subject to the following restrictions:

1. You must compress your program with a completely unmodified UPX version; either with our precompiled version, or (at your option) with a self compiled version of the unmodified UPX sources as distributed by us.

2. This also implies that the UPX stub must be completely unmodified, i.e. the stub imbedded in your compressed program must be byte-identical to the stub that is produced by the official unmodified UPX version.

3. The decompressor and any other code from the stub must exclusively get used by the unmodified UPX stub for decompressing your program at program startup. No portion of the stub may get read, copied, called or otherwise get used or accessed by your program.

ANNOTATIONS

- You can use a modified UPX version or modified UPX stub only for programs that are compatible with the GNU General Public License.
- We grant you special permission to freely use and distribute all UPX compressed programs. But any modification of the UPX stub (such as, but not limited to, removing our copyright string or making your program non-decompressible) will immediately revoke your right to use and distribute a UPX compressed program.
- UPX is not a software protection tool; by requiring that you use the unmodified UPX version for your proprietary programs we make sure that any user can decompress your program. This protects both you and your users as nobody can hide malicious code - any program that cannot be decompressed is highly suspicious by definition.
- You can integrate all or part of UPX and UCL into projects that are compatible with the GNU GPL, but obviously you cannot grant any special exceptions beyond the GPL for our code in your project.
- We want to actively support manufacturers of virus scanners and similar security software. Please contact us if you would like to incorporate parts of UPX or UCL into such a product.
Additional License(s)

The UPX license file is at http://upx.sourceforge.net/upx-license.html.

The following software may be included in this product:

LZMA Software Development Kit

Use of any of this software is governed by the terms of the license below:

License

LZMA SDK is available under any of the following licenses:

1. GNU Lesser General Public License (GNU LGPL)
2. Common Public License (CPL)
3. Simplified license for unmodified code (read SPECIAL EXCEPTION)
4. Proprietary license

This means that you can select one of these four options and follow rules of that license.

SPECIAL EXCEPTION: Igor Pavlov, as the author of this code, expressly permit you statically or dynamically to link your code (or bind by name) to the files from LZMA SDK without subjecting your linked code to the terms of the CPL or GNU LGPL. Any modification or addition to any file in the LZMA SDK, however, is subject to the GNU LGPL or CPL terms.

This SPECIAL EXCEPTION allows you to use LZMA SDK in applications with proprietary code, provided you keep the LZMA SDK code unmodified.

SPECIAL EXCEPTION #2: Igor Pavlov, as the author of this code, expressly permits you to use LZMA SDK 4.43 under the same terms and conditions contained in the License Agreement you have for any previous version of LZMA SDK developed by Igor Pavlov.

SPECIAL EXCEPTION #2 allows holders of proprietary licenses to use latest version of LZMA SDK as update for previous versions.

GNU LGPL and CPL are pretty similar and both these licenses are classified as free software licenses at http://www.gnu.org/ and OSI-approved at http://www.opensource.org/.

LZMA SDK also is available under a proprietary license which can include:

1. The right to modify code from the LZMA SDK without subjecting the modified code to the terms of the CPL or GNU LGPL
2. Technical support for LZMA SDK via email

To request such a proprietary license, or for any additional consultations, send an email message, using the 7-Zip support page: Send message to LZMA developer

The source code of 7-Zip is released under the terms of the GNU LGPL. You can download the source code of 7-Zip at 7-Zip's Source Forge Page

Additional License(s)
The license included with the software differs slightly from the version posted on the website. Specifically it includes SPECIAL EXCEPTION #3, which is not present in the license on the website. The license from the software archive follows:

LICENSE
---------

LZMA SDK is available under any of the following licenses:

1) GNU Lesser General Public License (GNU LGPL)
2) Common Public License (CPL)
3) Simplified license for unmodified code (read SPECIAL EXCEPTION)
4) Proprietary license

It means that you can select one of these four options and follow rules of that license.

1,2) GNU LGPL and CPL licenses are pretty similar and both these licenses are classified as

- "Free software licenses" at http://www.gnu.org/
- "OSI-approved" at http://www.opensource.org/

3) SPECIAL EXCEPTION

Igor Pavlov, as the author of this code, expressly permits you to statically or dynamically link your code (or bind by name) to the files from LZMA SDK without subjecting your linked code to the terms of the CPL or GNU LGPL. Any modifications or additions to files from LZMA SDK, however, are subject to the GNU LGPL or CPL terms.

SPECIAL EXCEPTION allows you to use LZMA SDK in applications with closed code, while you keep LZMA SDK code unmodified.

SPECIAL EXCEPTION #2: Igor Pavlov, as the author of this code, expressly permits you to use this code under the same terms and conditions contained in the License Agreement you have for any previous version of LZMA SDK developed by Igor Pavlov.

SPECIAL EXCEPTION #2 allows owners of proprietary licenses to use latest version of LZMA SDK as update for previous versions.

SPECIAL EXCEPTION #3: Igor Pavlov, as the author of this code, expressly permits you to use code of the following files: BranchTypes.h, LzmaTypes.h, LzmaTest.c, LzmaStateTest.c, LzmaAlone.cpp, LzmaAlone.cs, LzmaAlone.java as public domain code.

4) Proprietary license

LZMA SDK also can be available under a proprietary license which can include:

1) Right to modify code without subjecting modified code to the terms of the CPL or GNU LGPL
2) Technical support for code

To request such proprietary license or any additional consultations, send email message from that page: http://www.7-zip.org/support.html
You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

You should have received a copy of the Common Public License along with this library.

The following software may be included in this product: JiBX

Copyright (c) 2003-2010, Dennis M. Sosnoski. All rights reserved.

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

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

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of JiBX nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following software may be included in this product: SoftFloat

SoftFloat was written by me, John R. Hauser. This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704. Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek.

THIS SOFTWARE IS DISTRIBUTED AS IS, FOR FREE. Although reasonable effort has been made to avoid it, THIS SOFTWARE MAY CONTAIN FAULTS THAT WILL AT TIMES RESULT IN INCORRECT BEHAVIOR. USE OF THIS SOFTWARE IS RESTRICTED TO PERSONS AND ORGANIZATIONS WHO CAN AND WILL TAKE FULL RESPONSIBILITY FOR ALL LOSSES, COSTS, OR OTHER PROBLEMS THEY INCUR DUE TO THE SOFTWARE, AND WHO FURTHERMORE EFFECTIVELY INDEMNIFY JOHN HAUSER AND THE INTERNATIONAL COMPUTER SCIENCE INSTITUTE (possibly via similar legal warning) AGAINST ALL LOSSES, COSTS, OR OTHER PROBLEMS INCURRED BY THEIR CUSTOMERS AND CLIENTS DUE TO THE SOFTWARE.
Derivative works are acceptable, even for commercial purposes, provided that the minimal documentation requirements stated in the source code are satisfied.

The following software may be included in this product: Maven version 3

Apache Maven
Copyright 2001-2011 The Apache Software Foundation
This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).
This product includes software (Plexus and Classworlds) developed by
The Codehaus Foundation (http://www.codehaus.org/).
This product includes software (Aether, Sisu, Spice, Plexus Ciper and Sec Dispatcher) developed by
Sonatype Inc. (http://www.sonatype.org/).
This product includes software (NekoHTML) developed by
SourceForge (http://www.sourceforge.net/).
This product includes software (Guice) developed by
Google Code (http://code.google.com/).
Use of any of this software is governed by the terms of the Apache License Version 2.0.

APEX Essentials

Copyright (c) 2008 Patrick Wolf (http://www.inside-oracle-apex.com/)
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Antlr

ANTLR 3 License
[The BSD License]
Copyright (c) 2003-2007, Terence Parr
All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

AnyChart

Flash chart support in Oracle Application Express is based on the Anychart Flash Chart Component. Anychart is a flexible Macromedia Flash-based solution that enables developers to create animated, compact, interactive flash charts. Flash charts are rendered by a browser and require Flash player 8 or later. Flash charts used in interactive reports require Flash Player 9 or later. For more information about Anychart, go to:

http://www.anychart.com

Any attempt to unbundle the AnyChart Flash Chart Component from an Oracle product, or to use the AnyChart Flash Chart Component outside of the Oracle product will be in violation of this license and will result in the immediate termination of this license.

AnyChart Flash Chart Component

Flash chart support in Oracle Application Express is based on the Anychart Flash Chart Component. Anychart is a flexible Macromedia Flash-based solution that enables developers to create animated, compact, interactive flash charts. Flash charts are rendered by a browser and require Flash player 8 or later. Flash charts used in interactive reports require Flash Player 9 or later. For more information about Anychart, go to:

http://www.anychart.com

Any attempt to unbundle the AnyChart Flash Chart Component from an Oracle product, or to use the AnyChart Flash Chart Component outside of the Oracle product
AnyGantt

AnyChart

Flash chart support in Oracle Application Express is based on the Anychart Flash Chart Component. Anychart is a flexible Macromedia Flash-based solution that enables developers to create animated, compact, interactive flash charts. Flash charts are rendered by a browser and require Flash player 8 or later. Flash charts used in interactive reports require Flash Player 9 or later. For more information about Anychart, go to:

http://www.anychart.com

Any attempt to unbundle the AnyChart Flash Chart Component from an Oracle product, or to use the AnyChart Flash Chart Component outside of the Oracle product will be in violation of this license and will result in the immediate termination of this license.

AnyMap

AnyChart

Flash chart support in Oracle Application Express is based on the Anychart Flash Chart Component. Anychart is a flexible Macromedia Flash-based solution that enables developers to create animated, compact, interactive flash charts. Flash charts are rendered by a browser and require Flash player 8 or later. Flash charts used in interactive reports require Flash Player 9 or later. For more information about Anychart, go to:

http://www.anychart.com

Any attempt to unbundle the AnyChart Flash Chart Component from an Oracle product, or to use the AnyChart Flash Chart Component outside of the Oracle product will be in violation of this license and will result in the immediate termination of this license.

Apache Commons File Upload

This product is licensed under the Apache 2.0 license agreement. See "The Apache Software License, Version 2.0" on page A-68.

Apache Commons Logging

Copyright 2003-2007 The Apache Software Foundation

This product includes software developed by

The Apache Software Foundation (http://www.apache.org/).

Apache FOP

Apache FOP 0.20.5


All rights reserved. Licensed under the Apache 1.1 License Agreement.

The names "Xerces", "Xalan", "Batik", "Jakarta", "Apache Avalon", "Avalon Excalibur", "Avalon Framework" and "Apache Software Foundation" must not be used to endorse
or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org.

This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation and without limiting the foregoing, contains portions originally based on software copyright (c) 1999, International Business Machines, Inc., http://www.ibm.com, portions originally based on software copyright (c) 1999, Lotus Development Corporation, http://www.lotus.com, and portions originally created by Stefano Mazzocchi <stefano@apache.org>. For more information on the Apache Software Foundation, please see <http://www.apache.org/>.

Apache Geronimo JMS 1.1 Specification

This product is licensed under the Apache 2.0 license agreement. See "The Apache Software License, Version 2.0" on page A-68.

Apache POI

Apache POI
Copyright 2009 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

This product contains the DOM4J library (http://www.dom4j.org).
Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved.

This product contains parts that were originally based on software from BEA.
Copyright (c) 2000-2003, BEA Systems.

This product contains W3C XML Schema documents. Copyright 2001-2003 (c) World Wide Web Consortium (Massachusetts Institute of Technology, European Research Consortium for Informatics and Mathematics, Keio University)

This product contains the Piccolo XML Parser for Java

This product contains the chunks_parse_cmds.tbl file from the vsdump program.
Copyright (C) 2006-2007 Valek Filippov (frob@df.ru)

Apache XMLBeans

This product includes software developed by The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:- software copyright (c) 2000-2003, BEA Systems.

Aside from contributions to the Apache XMLBeans project, this software also includes:

- one or more source files from the Apache Xerces-J and Apache Axis products,
  Copyright (c) 1999-2003 Apache Software Foundation

- W3C XML Schema documents Copyright 2001-2003 (c) World Wide Web Consortium (Massachusetts Institute of Technology, European Research Consortium for Informatics and Mathematics, Keio University)
- resolver.jar from Apache Xml Commons project, Copyright (c) 2001-2003 Apache Software Foundation
- Piccolo XML Parser for Java from http://piccolo.sourceforge.net/, Copyright 2002 Yuval Oren under the terms of the Apache Software License 2.0
- JSR-173 Streaming API for XML from http://sourceforge.net/projects/xmlpullparser/, Copyright 2005 BEA under the terms of the Apache Software License 2.0

**Apple MDNS (Bonjour)**

Apple MDNS (Bonjour) Copyright (c) 2002-2004 Apple Computer, Inc.

All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License")

To accommodate license compatibility with the widest possible range of client code licenses, the shared library code, which is linked at runtime into the same address space as the client using it, is licensed under the terms of the "Three-Clause BSD License".

The Linux Name Service Switch code, contributed by National ICT Australia Ltd (NICTA) is licensed under the terms of the NICTA Public Software License (which is substantially similar to the "Three-Clause BSD License", with some additional language pertaining to Australian law).

**Autocomplete plugin**

jQuery Autocomplete plugin 1.1 (Modified to work with Oracle Application Express)  
Copyright (c) 2009 Jörn Zaefferer

Dual licensed under the MIT and GPL licenses:  
http://www.opensource.org/licenses/mit-license.php  
http://www.gnu.org/licenses/gpl.html  
Revision: $Id: jquery.autocomplete.js 15 2009-08-22 10:30:27Z joern.zaefferer $/

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Batik

This product includes software developed by The Apache Software Foundation (http://www.apache.org/).

This software contains code from the World Wide Web Consortium (W3C) for the Document Object Model API (DOM API) and SVG Document Type Definition (DTD).

This software contains code from the International Organisation for Standardization for the definition of character entities used in the software’s documentation.

Bgiframe plugin

Copyright (c) 2006 Brandon Aaron

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Bouncy Castle Crypto API

Copyright (c) 2000 - 2009 The Legion Of The Bouncy Castle (http://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

CKEditor

© 2003 - 2010 CKSource - Frederico Knabben. All rights reserved.
CodeMirror

Oracle gratefully acknowledges the contributions of Marijn Haverbeke in creating CodeMirror, which was used in creating this product.

Color Picker

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Commons HttpClient

This product is licensed under the Apache 2.0 license agreement. See "The Apache Software License, Version 2.0" on page A-68.

Cookie

Oracle has elected to receive the code under MIT terms.

Copyright (c) 2006 Klaus Hartl (stilbuero.de)

Url: http://plugins.jquery.com/project/cookie

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Cytoscape Consortium
Oracle gratefully acknowledges the Cytoscape Consortium licensor of Cytoscape, which is available at http://www.cytoscape.org/download.php.

DataDirect Technology
The DataDirect component provided with this Oracle Program is distributed only for use with Oracle Program.

Expat - C library for XML Parser
Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd and Clark Cooper


Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ”Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Fop
Apache FOP

Copyright 1999-2010 The Apache Software Foundation

This product includes software developed at The Apache Software Foundation (http://www.apache.org/).

This software consists of voluntary contributions made by many individuals on behalf of The Apache Software Foundation and was originally created by James Tauber.

GTE Cybertrust Root Keys
ORACLE IS PROVIDING THE GTE CYBERTRUST ROOT KEY CERTIFICATES ON AN "AS IS" BASIS WITHOUT WARRANTY OF ANY KIND; ORACLE DOES NOT WARRANT THAT THE GTE CYBERTRUST ROOT KEY CERTIFICATES WILL BE PROVIDED UNINTERRUPTED OR ERROR-FREE; FURTHERMORE, ORACLE DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Geospatial Data Abstraction Library/OpenGIS Simple Features Reference Implementation
(GDAL/OGR)

GDAL/OGR General
In general GDAL/OGR is licensed under an MIT/X style license with the following terms:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

gdal/frmts/gtiff/tif_float.c
Copyright (c) 2002, Industrial Light & Magic, a division of Lucas Digital Ltd. LLC
All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of Industrial Light & Magic nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
gdal/frmts/hdf4/hdf-eos/*
Copyright (C) 1996 Hughes and Applied Research Corporation

Permission to use, modify, and distribute this software and its documentation for any purpose without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

gdal/frmts/pcraster/libcsf
Copyright (c) 1997-2003, Utrecht University
All rights reserved.

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

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of Utrecht University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

gdal/frmts/grib/degrib/*
The degrib and g2clib source code are modified versions of code produced by NOAA NWS and are in the public domain subject to the following restrictions:

http://www.weather.gov/im/softa.htm

DISCLAIMER The United States Government makes no warranty, expressed or implied, as to the usefulness of the software and documentation for any purpose. The U.S. Government, its instrumentalities, officers, employees, and agents assumes no responsibility (1) for the use of the software and documentation listed below, or (2) to provide technical support to users.

http://www.weather.gov/disclaimer.php

The information on government servers are in the public domain, unless specifically annotated otherwise, and may be used freely by the public so long as you do not 1) claim it is your own (e.g. by claiming copyright for NWS information -- see below), 2) use it in a manner that implies an endorsement or affiliation with NOAA/NWS, or 3) modify it in content and then present it as official government material. You also
cannot present information of your own in a way that makes it appear to be official government information.

The user assumes the entire risk related to its use of this data. NWS is providing this data "as is," and NWS disclaims any and all warranties, whether express or implied, including (without limitation) any implied warranties of merchantability or fitness for a particular purpose. In no event will NWS be liable to you or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of this data.

As required by 17 U.S.C. 403, third parties producing copyrighted works consisting predominantly of the material appearing in NWS Web pages must provide notice with such work(s) identifying the NWS material incorporated and stating that such material is not subject to copyright protection.

port/cpl_minizip

This is version 2005-Feb-10 of the Info-ZIP copyright and license. The definitive version of this document should be available at ftp://ftp.info-zip.org/pub/infozip/license.html indefinitely.

Copyright (c) 1990-2005 Info-ZIP. All rights reserved.

For the purposes of this copyright and license, "Info-ZIP" is defined as the following set of individuals: Mark Adler, John Bush, Karl Davis, Harald Denker, Jean-Michel Dubois, Jean-loup Gailly, Hunter Goatley, Ed Gordon, Ian Gorman, Chris Herborth, Dirk Haase, Greg Hartwig, Robert Heath, Jonathan Hudson, Paul Kienitz, David Kirschbaum, Johnny Lee, Onno van der Linden, Igor Mandrichenko, Steve P. Miller, Sergio Monesi, Keith Owens, George Petrov, Greg Roelofs, Kai Uwe Rommel, Steve Salisbury, Dave Smith, Steven M. Schweda, Christian Spieler, Cosmin Truta, Antoine Verheijen, Paul von Behren, Rich Wales, Mike White

This software is provided "as is," without warranty of any kind, express or implied. In no event shall Info-ZIP or its contributors be held liable for any direct, indirect, incidental, special or consequential damages arising out of the use of or inability to use this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

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

2. Redistributions in binary form (compiled executables) must reproduce the above copyright notice, definition, disclaimer, and this list of conditions in documentation and/or other materials provided with the distribution. The sole exception to this condition is redistribution of a standard UnZipSFX binary (including SFXWiz) as part of a self-extracting archive; that is permitted without inclusion of this license, as long as the normal SFX banner has not been removed from the binary or disabled.

3. Altered versions--including, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, and dynamic, shared, or static library versions--must be plainly marked as such and must not be misrepresented as being the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited
from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or of the Info-ZIP URL(s).


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

Copyright (c) 2009, David F. Rogers

All rights reserved.

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

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the David F. Rogers nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Hotkeys

jQuery Hotkeys Plugin
Copyright 2010, John Resig
Dual licensed under the MIT or GPL Version 2 licenses.

Oracle has elected to receive the code under the MIT license.

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

Original idea by:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software
without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

JGoodies Looks

The BSD License for the JGoodies Looks

======================================

Copyright (c) 2003 JGoodies Karsten Lentzsch. All rights reserved.

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

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of JGoodies Karsten Lentzsch nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

JSch

Copyright (c) 2002-2010 Atsuhiko Yamanaka, JCraft, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT, INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

JXLayer

Copyright (c) 2006-2009, Alexander Potochkin All rights reserved.

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

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the JXLayer project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

JasPer

JasPer License Version 2.0

Copyright (c) 2001-2006 Michael David Adams
Copyright (c) 1999-2000 Image Power, Inc.
Copyright (c) 1999-2000 The University of British Columbia

All rights reserved.

Permission is hereby granted, free of charge, to any person (the "User") obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

1. The above copyright notices and this permission notice (which includes the disclaimer below) shall be included in all copies or substantial portions of the Software.

2. The name of a copyright holder shall not be used to endorse or promote products derived from the Software without specific prior written permission.

THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF THE SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER. THE SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. NO ASSURANCES ARE PROVIDED BY THE COPYRIGHT HOLDERS THAT THE SOFTWARE DOES NOT INFRINGE THE PATENT OR OTHER INTELLECTUAL PROPERTY RIGHTS OF ANY OTHER ENTITY. EACH COPYRIGHT HOLDER DISCLAIMS ANY LIABILITY TO THE USER FOR CLAIMS BROUGHT BY ANY OTHER ENTITY BASED ON INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS OR OTHERWISE. AS A CONDITION TO EXERCISING THE RIGHTS GRANTED HEREUNDER, EACH USER HEREBY ASSUMES SOLE RESPONSIBILITY TO SECURE ANY OTHER INTELLECTUAL PROPERTY RIGHTS NEEDED, IF ANY. THE SOFTWARE IS NOT FAULT-TOLERANT AND IS NOT INTENDED FOR USE IN MISSION-CRITICAL SYSTEMS, SUCH AS THOSE USED IN THE OPERATION OF NUCLEAR FACILITIES, AIRCRAFT NAVIGATION OR COMMUNICATION SYSTEMS, AIR TRAFFIC CONTROL SYSTEMS, DIRECT LIFE SUPPORT MACHINES, OR WEAPONS SYSTEMS, IN WHICH THE FAILURE OF THE SOFTWARE OR SYSTEM COULD LEAD DIRECTLY TO DEATH, PERSONAL INJURY, OR SEVERE PHYSICAL OR ENVIRONMENTAL DAMAGE ("HIGH RISK ACTIVITIES"). THE COPYRIGHT HOLDERS SPECIFICALLY DISCLAIM ANY EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR HIGH RISK ACTIVITIES.

Jena

This product is licensed under the Apache 2.0 license agreement. See "The Apache Software License, Version 2.0" on page A-68.

LAPACK

Copyright (c) <YEAR>, Jack Dongarra
All rights reserved.

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

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of BLAS or LPACK nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Log4J

This product is licensed under the Apache 2.0 license agreement. See "The Apache Software License, Version 2.0" on page A-68.

MD5_Crypt

* "THE BEER-WARE LICENSE" (Revision 42):
<phk@login.dknet.dk> wrote this file. As long as you retain this notice you can do whatever you want with this stuff. If we meet some day, and you think this stuff is worth it, you can buy me a beer in return. Poul-Henning Kamp

Metadata

Dual licensed under the MIT and GPL licenses:
http://www.opensource.org/licenses/mit-license.php
http://www.gnu.org/licenses/gpl.html

Revision: $Id: jquery.metadata.js 4187 2007-12-16 17:15:27Z joern.zaefferer $

Oracle has elected to receive the code under MIT terms.

Copyright (c) 2006 John Resig, Yehuda Katz, Jörn Zaefferer, Paul McLanahan

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Micro Edition Suite (MES)

This product includes code licensed from RSA Data Security.

![RSA Secure](image)

Microsoft Visual Studio 2010 Redistributables

Must include Oracle copyright notice in Oracle applications containing the Distributable Code. Oracle must not use Microsoft’s trademarks in Oracle program names or in a way that suggests Oracle programs come from or are endorsed by Microsoft.

OWL API

Copyright (C) 2011, The University of Manchester
Copyright (C) 2011, Clark & Parsia, LLC
Copyright (C) 2011, Ulm University

This product is licensed under the Apache 2.0 license agreement. See "The Apache Software License, Version 2.0" on page A-68.

Perl

See "CPAN Modules" on page A-71 for licensing details.

Projections Code

Portions of this software Copyright 1992-2000, MapInfo Corporation, ALL RIGHTS RESERVED.

Regular Expression Package

Jakarta Regexp Version 1.3, Copyright © 1999-2002 The Apache Software Foundation. All rights reserved. Licensed under the Apache 1.1 License Agreement.
The names "The Jakarta Project", "Jakarta-Regexp", and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org.

This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see http://www.apache.org/.

**Sarissa**

This product is licensed under the Apache 2.0 license agreement. See "The Apache Software License, Version 2.0" on page A-68.

**Validation plugin**

jQuery validation plug-in 1.7

http://bassistance.de/jquery-plugins/jquery-plugin-validation/
http://docs.jquery.com/Plugins/Validation

Copyright (c) 2006 - 2008 Jörn Zaefferer

$Id: jquery.validate.js 6403 2009-06-17 14:27:16Z joern.zaefferer $

Dual licensed under the MIT and GPL licenses:
http://www.opensource.org/licenses/mit-license.php
http://www.gnu.org/licenses/gpl.html/

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

**Xerces**

Apache Xerces Java

Copyright 1999-2007 The Apache Software Foundation

This product includes software developed at The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:

voluntary contributions made by Paul Eng on behalf of the Apache Software Foundation that were originally developed at iClick, Inc., software copyright (c) 1999.

avalon.framework.jar
Avalon Framework version 4.1.5 Copyright © 1997-2003
The Apache Software Foundation. All rights reserved.
Licensed under the Apache 1.1 License Agreement.
The names "Apache", "Avalon", "Excalibur", "Fortress", "Phoenix", "Merlin" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org.
This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see http://www.apache.org/.

commons-io-1.2.jar
This product is licensed under the Apache 2.0 license agreement. See "The Apache Software License, Version 2.0" on page A-68.

commons-logging-1.0.4.jar
This product includes software developed by The Apache Software Foundation (http://www.apache.org/).

dom4j
Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved.
Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain copyright statements and notices.
   Redistributions must also contain a copy of this document.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name "DOM4J" must not be used to endorse or promote products derived from this Software without prior written permission of MetaStuff, Ltd. For written permission, please contact dom4j-info@metastuff.com.
4. Products derived from this Software may not be called "DOM4J" nor may "DOM4J" appear in their names without prior written permission of MetaStuff, Ltd. DOM4J is a registered trademark of MetaStuff, Ltd.
5. Due credit should be given to the DOM4J Project - http://www.dom4j.org
   THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

ipmiutil

pefconfig.c Copyright (c) 2001-2007, Intel Corporation
ipmicmd.c Copyright (c) 2002-2006, Intel Corporation
ipmicmd.h Copyright (c) 2002, Intel Corporation
ipmims.c Copyright (c) 2002, Intel Corporation

All rights reserved.

/*-----------------------------------------------*/

The BSD License

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

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

b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

c. Neither the name of Intel Corporation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*--------------------------------------------------------------------*/

jGraphX.jar

Oracle provides the following as a notice only:

JGraphX is licensed under the modern, 3 clause BSD license. The precise text of the license you receive the software under is here (http://www.jgraph.com/bsd.html). If you cannot understand it, do not use the software.

=================================

License.txt included in software.
Copyright (c) 2001-2009, JGraph Ltd

All rights reserved.

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

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of JGraph Ltd nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.


This License shall terminate automatically, as will all licenses assigned to you by the copyright holders of this software, and you may no longer exercise any of the rights granted to you by this license as of the date you commence an action, including a cross-claim or counterclaim, against the copyright holders of this software or any licensee of this software alleging that any part of the JGraph, JGraphX and/or mxGraph software libraries infringe a patent. This termination provision shall not apply for an action alleging patent infringement by combinations of this software with other software or hardware.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

jQuery

Copyright (c) 2011 John Resig, http://jquery.com/

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

jQuery

Copyright (c) 2008 John Resig.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

jQuery Mobile

Copyright (c) 2011 John Resig, http://jquery.com/

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

jQueryUI

Copyright (c) 2010 Paul Bakaus, http://jqueryui.com/

This software consists of voluntary contributions made by many individuals (AUTHORS.txt, http://jqueryui.com/about) For exact contribution history, see the revision history and logs, available at http://jquery-ui.googlecode.com/svn/.
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

**jsTree**

Dual licensed under the MIT and GPL licenses:
http://www.opensource.org/licenses/mit-license.php
http://www.gnu.org/licenses/gpl.html

Oracle has elected to receive the code under MIT terms.

http://jstree.com/
Copyright (c) 2009 Ivan Bozhanov (vakata.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

**kerberos**

Copyright (C) 1985-2010 by the Massachusetts Institute of Technology.
All rights reserved.

Export of this software from the United States of America may require a specific license from the United States Government. It is the responsibility of any person or organization contemplating export to obtain such a license before exporting.
WITHIN THAT CONSTRAINT, permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of M.I.T. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Furthermore if you modify this software you must label your software as modified software and not distribute it in such a fashion that it might be confused with the original MIT software. M.I.T. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Individual source code files are copyright MIT, Cygnus Support, Novell, OpenVision Technologies, Oracle, Red Hat, Sun Microsystems, FundsXpress, and others.

Project Athena, Athena, Athena MUSE, Discuss, Hesiod, Kerberos, Moira, and Zephyr are trademarks of the Massachusetts Institute of Technology (MIT). No commercial use of these trademarks may be made without prior written permission of MIT.

"Commercial use" means use of a name in a product or other for-profit manner. It does NOT prevent a commercial firm from referring to the MIT trademarks in order to convey information (although in doing so, recognition of their trademark status should be given).

-----------------------------------------
Portions of src/lib/crypto have the following copyright:

Copyright (C) 1998 by the FundsXpress, INC.

All rights reserved.

Export of this software from the United States of America may require a specific license from the United States Government. It is the responsibility of any person or organization contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of FundsXpress. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. FundsXpress makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

-----------------------------------------

The following copyright and permission notice applies to the OpenVision Kerberos Administration system located in kadmin/create, kadmin/dbutil, kadmin/passwd, kadmin/server, lib/kadm5, and portions of lib/rpc:

Copyright, OpenVision Technologies, Inc., 1996, All Rights Reserved
WARNING: Retrieving the OpenVision Kerberos Administration system source code, as described below, indicates your acceptance of the following terms. If you do not agree to the following terms, do not retrieve the OpenVision Kerberos administration system.

You may freely use and distribute the Source Code and Object Code compiled from it, with or without modification, but this Source Code is provided to you "AS IS" EXCLUSIVE OF ANY WARRANTY, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED. IN NO EVENT WILL OPENVISION HAVE ANY LIABILITY FOR ANY LOST PROFITS, LOSS OF DATA OR COSTS OF PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES, OR FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THIS AGREEMENT, INCLUDING, WITHOUT LIMITATION, THOSE RESULTING FROM THE USE OF THE SOURCE CODE, OR THE FAILURE OF THE SOURCE CODE TO PERFORM, OR FOR ANY OTHER REASON.

OpenVision retains all copyrights in the donated Source Code. OpenVision also retains copyright to derivative works of the Source Code, whether created by OpenVision or by a third party. The OpenVision copyright notice must be preserved if derivative works are made based on the donated Source Code.

OpenVision Technologies, Inc. has donated this Kerberos Administration system to MIT for inclusion in the standard Kerberos 5 distribution. This donation underscores our commitment to continuing Kerberos technology development and our gratitude for the valuable work which has been performed by MIT and the Kerberos community.

Portions contributed by Matt Crawford <crawdad@fnal.gov> were work performed at Fermi National Accelerator Laboratory, which is operated by Universities Research Association, Inc., under contract DE-AC02-76CHO3000 with the U.S. Department of Energy.

The implementation of the Yarrow pseudo-random number generator in src/lib/crypto/yarrow has the following copyright:

Copyright 2000 by Zero-Knowledge Systems, Inc.

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Zero-Knowledge Systems, Inc. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Zero-Knowledge Systems, Inc. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

ZERO-KNOWLEDGE SYSTEMS, INC. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL ZERO-KNOWLEDGE SYSTEMS, INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTUOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
The implementation of the AES encryption algorithm in src/lib/crypto/aes has the following copyright:

Copyright (c) 2001, Dr Brian Gladman <brg@gladman.uk.net>, Worcester, UK. All rights reserved.

LICENSE TERMS

The free distribution and use of this software in both source and binary form is allowed (with or without changes) provided that:

1. distributions of this source code include the above copyright notice, this list of conditions and the following disclaimer;

2. distributions in binary form include the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other associated materials;

3. the copyright holder's name is not used to endorse products built using this software without specific written permission.

DISCLAIMER

This software is provided 'as is' with no explicit or implied warranties in respect of any properties, including, but not limited to, correctness and fitness for purpose.

----------------------------------------------------------

Portions contributed by Red Hat, including the pre-authentication plug-ins framework, contain the following copyright:

Copyright (c) 2006 Red Hat, Inc.

Portions copyright (c) 2006 Massachusetts Institute of Technology

All Rights Reserved.

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

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

■ Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

■ Neither the name of Red Hat, Inc., nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
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_spnego_mech.c

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

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

and marked portions of the following files:
lib/krb5/os/hst_realm.c

are subject to the following license:

Copyright (c) 2004 Sun Microsystems, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this
software and associated documentation files (the "Software"), to deal in the Software
without restriction, including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be included in all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

MIT Kerberos includes documentation and software developed at the University of
California at Berkeley, which includes this copyright notice:

Copyright (C) 1983 Regents of the University of California.
All rights reserved.

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

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

2. Redistributions in binary form must reproduce the above copyright notice, this
   list of conditions and the following disclaimer in the documentation and/or other
   materials provided with the distribution.

3. Neither the name of the University nor the names of its contributors may be used
to endorse or promote products derived from this software without specific prior
written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT
SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Portions contributed by Novell, Inc., including the LDAP database backend, are subject to the following license:

Copyright (c) 2004-2005, Novell, Inc. All rights reserved.

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

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- The copyright holder's name is not used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------

Portions funded by Sandia National Laboratory and developed by the University of Michigan’s Center for Information Technology Integration, including the PKINIT implementation, are subject to the following license:

COPYRIGHT (C) 2006-2007

THE REGENTS OF THE UNIVERSITY OF MICHIGAN

ALL RIGHTS RESERVED

Permission is granted to use, copy, create derivative works and redistribute this software and such derivative works for any purpose, so long as the name of The University of Michigan is not used in any advertising or publicity pertaining to the use of distribution of this software without specific, written prior authorization. If the above copyright notice or any other identification of the University of Michigan is included in any copy of any portion of this software, then the disclaimer below must also be included.

THIS SOFTWARE IS PROVIDED AS IS, WITHOUT REPRESENTATION FROM THE UNIVERSITY OF MICHIGAN AS TO ITS FITNESS FOR ANY PURPOSE, AND WITHOUT WARRANTY BY THE UNIVERSITY OF MICHIGAN OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE REGENTS OF THE UNIVERSITY OF MICHIGAN SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WITH RESPECT TO ANY CLAIM ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE
SOFTWARE, EVEN IF IT HAS BEEN OR IS HEREAFTER ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

-----------------------------------------

The pkcs11.h file included in the PKINIT code has the following license:

Copyright 2006 g10 Code GmbH
Copyright 2006 Andreas Jellinghaus

This file is free software; as a special exception the author gives unlimited permission
to copy and/or distribute it, with or without modifications, as long as this notice is
preserved.

This file is distributed in the hope that it will be useful, but WITHOUT ANY
WARRANTY, to the extent permitted by law; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

-----------------------------------------

Portions contributed by Apple Inc. are subject to the following license:

Copyright 2004-2008 Apple Inc. All Rights Reserved.

Export of this software from the United States of America may require a specific license from the United States Government. It is the responsibility of any person or organization contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Apple Inc. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Apple Inc. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.

-----------------------------------------

The implementations of strlcpy and strlcat in src/util/support/strlcat.c have the
following copyright and permission notice:

Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>

Permission to use, copy, modify, and distribute this software for any purpose with or
without fee is hereby granted, provided that the above copyright notice and this
permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL
WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE
AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

-----------------------------------------
The implementations of UTF-8 string handling in src/util/support and
src/lib/krb5/unicode are subject to the following copyright and permission notice:

The OpenLDAP Public License

Version 2.8, 17 August 2003

Redistribution and use of this software and associated documentation ("Software"),
with or without modification, are permitted provided that the following conditions are
met:

1. Redistributions in source form must retain copyright statements and notices,
2. Redistributions in binary form must reproduce applicable copyright statements
   and notices, this list of conditions, and the following disclaimer in the
documentation and/or other materials provided with the distribution, and
3. Redistributions must contain a verbatim copy of this document.

The OpenLDAP Foundation may revise this license from time to time. Each revision is
distinguished by a version number. You may use this Software under terms of this
license revision or under the terms of any subsequent revision of the license.

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND ITS
CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE OPENLDAP FOUNDATION, ITS
CONTRIBUTORS, OR THE AUTHOR(S) OR OWNER(S) OF THE SOFTWARE BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

The names of the authors and copyright holders must not be used in advertising or
otherwise to promote the sale, use or other dealing in this Software without specific,
written prior permission. Title to copyright in this Software shall at all times remain
with copyright holders.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Copyright 1999-2003 The OpenLDAP Foundation, Redwood City, California, USA. All
Rights Reserved. Permission to copy and distribute verbatim copies of this document
is granted.

-----------------------------------------

Marked test programs in src/lib/krb5/krb have the following copyright:

Copyright (c) 2006 Kungliga Tekniska Högskolan
(Royal Institute of Technology, Stockholm, Sweden).

All rights reserved.

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

1. Redistributions of source code must retain the above copyright notice, this list of
   conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of KTH nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY KTH AND ITS CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL KTH OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

qTip

qTip2 - Pretty powerful tooltips, Version: nightly Copyright 2009-2011 Craig Michael Thompson

Dual licensed under MIT or GPLv2 licenses

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

tablesorter

Copyright (c) 2007 Christian Bach

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

unzip

Copyright (c) 1990-2007 Info-ZIP. All rights reserved.

For the purposes of this copyright and license, "Info-ZIP" is defined as the following set of individuals:


This software is provided "as is," without warranty of any kind, express or implied. In no event shall Info-ZIP or its contributors be held liable for any direct, indirect, incidental, special or consequential damages arising out of the use of or inability to use this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the above disclaimer and the following restrictions:

1. Redistributions of source code (in whole or in part) must retain the above copyright notice, definition, disclaimer, and this list of conditions.

2. Redistributions in binary form (compiled executables and libraries) must reproduce the above copyright notice, definition, disclaimer, and this list of conditions in documentation and/or other materials provided with the distribution. The sole exception to this condition is redistribution of a standard UnZipSFX binary (including SFXWiz) as part of a self-extracting archive; that is permitted without inclusion of this license, as long as the normal SFX banner has not been removed from the binary or disabled.

3. Altered versions--including, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, versions with modified or added functionality, and dynamic, shared, or static library versions not from Info-ZIP--must be plainly marked as such and must not be misrepresented as being the original source or, if binaries, compiled from the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), 'Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or the Info-ZIP URL(s), such as to imply Info-ZIP will provide support for the altered versions.

zip

Copyright (c) 1990-2007 Info-ZIP. All rights reserved.

For the purposes of this copyright and license, "Info-ZIP" is defined as the following set of individuals:


This software is provided "as is," without warranty of any kind, express or implied. In no event shall Info-ZIP or its contributors be held liable for any direct, indirect, incidental, special or consequential damages arising out of the use of or inability to use this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the above disclaimer and the following restrictions:

1. Redistributions of source code (in whole or in part) must retain the above copyright notice, definition, disclaimer, and this list of conditions.

2. Redistributions in binary form (compiled executables and libraries) must reproduce the above copyright notice, definition, disclaimer, and this list of conditions in documentation and/or other materials provided with the distribution. The sole exception to this condition is redistribution of a standard UnZipSFX binary (including SFXWiz) as part of a self-extracting archive; that is permitted without inclusion of this license, as long as the normal SFX banner has not been removed from the binary or disabled.

3. Altered versions--including, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, versions with modified or added functionality, and dynamic, shared, or static library versions not from Info-ZIP--must be plainly marked as such and must not be misrepresented as being the original source or, if binaries, compiled from the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or the Info-ZIP URL(s), such as to imply Info-ZIP will provide support for the altered versions.


zlib

Oracle gratefully acknowledges the contributions of Jean-loup Gailly and Mark Adler in creating the zlib general purpose compression library which is used in this product.
**The Apache Software License, Version 1.1**

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

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

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:

   "This product includes software developed by the Apache Software Foundation (http://www.apache.org/)."

   Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

4. The names identified above with the specific software must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org.

5. Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Group.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

**The Apache Software License, Version 2.0**

The following applies to all products licensed under the Apache 2.0 License:

You may not use the identified files except in compliance with the Apache License, Version 2.0 (the "License.")

You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0. A copy of the license is also reproduced below.

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

   (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

CPAN Modules

This program contains third-party code from the Comprehensive Perl Archive Network ("CPAN"). Under the terms of the CPAN license, Oracle is required to provide the following notices. Note, however, that the Oracle program license that accompanied this product determines your right to use the Oracle program, including the CPAN software, and the terms contained in the following notices do not change those rights. You may obtain copies of the original source code for the CPAN modules at the following site: http://www.cpan.org/.
<table>
<thead>
<tr>
<th>Index</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td></td>
</tr>
<tr>
<td>Active Data Guard. See Oracle Active Data Guard</td>
<td></td>
</tr>
<tr>
<td>Active Directory, 1-5</td>
<td></td>
</tr>
<tr>
<td>Advanced Analytics. See Oracle Advanced Analytics</td>
<td></td>
</tr>
<tr>
<td>Advanced Compression. See Oracle Advanced Compression</td>
<td></td>
</tr>
<tr>
<td>advanced index compression, 1-7</td>
<td></td>
</tr>
<tr>
<td>advanced replication, 1-8</td>
<td></td>
</tr>
<tr>
<td>Application Express. See Oracle Application Express</td>
<td></td>
</tr>
<tr>
<td>ASM. See Oracle Automatic Storage Management (Oracle ASM)</td>
<td></td>
</tr>
<tr>
<td>attribute clustering, 1-4</td>
<td></td>
</tr>
<tr>
<td>automatic block repair, 1-3, 2-2</td>
<td></td>
</tr>
<tr>
<td>automatic data optimization, 1-7</td>
<td></td>
</tr>
<tr>
<td>Automatic Workload Management, 1-4</td>
<td></td>
</tr>
<tr>
<td>Axiom storage, 1-8</td>
<td></td>
</tr>
<tr>
<td><strong>B</strong></td>
<td></td>
</tr>
<tr>
<td>backup and recovery, 1-3</td>
<td></td>
</tr>
<tr>
<td>backup, fast incremental, 1-3, 2-2</td>
<td></td>
</tr>
<tr>
<td>basic replication, 1-8</td>
<td></td>
</tr>
<tr>
<td>basic table compression, 1-7</td>
<td></td>
</tr>
<tr>
<td>bitmap plan conversion, 1-7</td>
<td></td>
</tr>
<tr>
<td>bitmapped index, 1-7</td>
<td></td>
</tr>
<tr>
<td>block compression, 1-3</td>
<td></td>
</tr>
<tr>
<td>block repair, 1-3</td>
<td></td>
</tr>
<tr>
<td>block-level media recovery, 1-3</td>
<td></td>
</tr>
<tr>
<td><strong>C</strong></td>
<td></td>
</tr>
<tr>
<td>client side query cache, 1-4</td>
<td></td>
</tr>
<tr>
<td>Cloud Management Pack. See Oracle Cloud Management Pack</td>
<td></td>
</tr>
<tr>
<td>Clusterware. See Oracle Clusterware</td>
<td></td>
</tr>
<tr>
<td>Connection Manager. See Oracle Connection Manager</td>
<td></td>
</tr>
<tr>
<td><strong>D</strong></td>
<td></td>
</tr>
<tr>
<td>Data Guard Far Sync, 1-3, 1-10</td>
<td></td>
</tr>
<tr>
<td>Data Guard. See Oracle Data Guard</td>
<td></td>
</tr>
<tr>
<td>Data Masking and Subsetting Pack. See Oracle Data Masking and Subsetting Pack</td>
<td></td>
</tr>
<tr>
<td>Data Pump, 1-7</td>
<td></td>
</tr>
<tr>
<td>Database Consolidation Workbench, 2-8</td>
<td></td>
</tr>
<tr>
<td>database gateways, 1-8</td>
<td></td>
</tr>
<tr>
<td>database options, 2-1</td>
<td></td>
</tr>
<tr>
<td>checking for usage, 2-31</td>
<td></td>
</tr>
<tr>
<td>Oracle Advanced Security, 1-5, 1-10, 2-4</td>
<td></td>
</tr>
<tr>
<td>Oracle Advanced Security, 1-5, 1-10, 2-4</td>
<td></td>
</tr>
<tr>
<td>Oracle Advanced Compression, 1-7, 2-2</td>
<td></td>
</tr>
<tr>
<td>Oracle Advanced Compression, 1-7, 2-3</td>
<td></td>
</tr>
<tr>
<td>Oracle Advanced Security, 1-5, 1-10, 2-4</td>
<td></td>
</tr>
<tr>
<td>Oracle Database In-Memory, 2-5</td>
<td></td>
</tr>
<tr>
<td>Oracle Database Vault, 1-5, 2-5</td>
<td></td>
</tr>
<tr>
<td>Oracle Label Security, 1-5, 2-5</td>
<td></td>
</tr>
<tr>
<td>Oracle Multitenant, 2-6</td>
<td></td>
</tr>
<tr>
<td>Oracle On-Line Analytical Processing (OLAP), 1-7, 2-6</td>
<td></td>
</tr>
<tr>
<td>Oracle Partitioning, 1-7, 1-8, 2-7</td>
<td></td>
</tr>
<tr>
<td>Oracle RAC One Node, 1-2, 2-7</td>
<td></td>
</tr>
<tr>
<td>Oracle Real Application Clusters, 1-2, 1-4, 1-12, 2-1, 2-7</td>
<td></td>
</tr>
<tr>
<td>Oracle Real Application Testing, 1-6, 1-13, 1-14, 2-8, 2-9</td>
<td></td>
</tr>
<tr>
<td>Oracle Spatial and Graph, 1-8, 2-9</td>
<td></td>
</tr>
<tr>
<td>Oracle TimesTen Application-Tier Database Cache, 1-4, 2-11</td>
<td></td>
</tr>
<tr>
<td>Database Replay, 1-13, 2-8</td>
<td></td>
</tr>
<tr>
<td>Database Resource Manager, 1-6</td>
<td></td>
</tr>
<tr>
<td>Database Smart Flash Cache, 1-4</td>
<td></td>
</tr>
<tr>
<td>Database Vault. See Oracle Database Vault</td>
<td></td>
</tr>
<tr>
<td>deferred segment creation, 1-7</td>
<td></td>
</tr>
<tr>
<td>Diagnostics Pack. See Oracle Diagnostics Pack</td>
<td></td>
</tr>
<tr>
<td>duplexed backup sets, 1-3</td>
<td></td>
</tr>
<tr>
<td><strong>E</strong></td>
<td></td>
</tr>
<tr>
<td>Enterprise Edition. See Oracle Database Enterprise Edition</td>
<td></td>
</tr>
<tr>
<td>Enterprise User Security, 1-5, 1-10</td>
<td></td>
</tr>
<tr>
<td>Exadata. See Oracle Exadata</td>
<td></td>
</tr>
<tr>
<td>Express Edition. See Oracle Database Express Edition</td>
<td></td>
</tr>
<tr>
<td><strong>F</strong></td>
<td></td>
</tr>
<tr>
<td>Fail Safe. See Oracle Fail Safe</td>
<td></td>
</tr>
<tr>
<td>far sync, 1-3, 1-10</td>
<td></td>
</tr>
<tr>
<td>fast incremental backup, 1-3, 2-2</td>
<td></td>
</tr>
<tr>
<td>fast-start fault recovery, 1-3</td>
<td></td>
</tr>
<tr>
<td>Fault Tolerant In-Memory Column Store, 1-4, 1-9</td>
<td></td>
</tr>
</tbody>
</table>
feature availability, 1-2
fine-grained auditing, 1-5
flash cache, 1-4
flashback
database, 1-3
table, 1-3
transaction, 1-3
transaction query, 1-3
Flashback Data Archive, 1-3
FS1 Flash Storage System, 1-8
G
Gateway for ODBC. See Oracle Database Gateway for ODBC
Global Data Services, 1-3, 1-10
H
heat map, 1-7
HTTP Server. See Oracle HTTP Server
hybrid columnar compression, 1-7, 1-9
row-level locking, 1-7, 1-9
I
index rebuild, 1-3
Infiniband, 1-8
infrastructure repository databases, 1-10
In-Memory Aggregation, 1-4
In-Memory Column Store, 1-4
fault tolerant, 1-4, 1-9
In-memory Parallel Execution, 1-7
In-Memory. See Oracle Database In-Memory
Instance Caging, 1-6
Internet Directory. See Oracle Internet Directory (OID)
I/O Resource Management, 1-9
K
key compression. See prefix compression
L
Label Security. See Oracle Label Security
Lifecycle Management Pack. See Oracle Database Lifecycle Management Pack
Load Testing Accelerator, 1-14
lost write protection, 1-3
M
management packs, 2-11
checking for usage, 2-31
Oracle Cloud Management Pack, 1-6, 2-11
Oracle Data Masking and Subsetting Pack, 1-6, 2-14
Oracle Database Lifecycle Management Pack, 1-6, 2-16
Oracle Diagnostics Pack, 1-6, 2-27
Oracle Tuning Pack, 1-6, 2-28, 2-30
materialized view query rewrite, 1-7
media recovery, 1-3
messaging gateway, 1-8
Microsoft Distributed Transaction Coordinator, 1-5
Microsoft Transaction Server, 1-9
multitenant. See Oracle Multitenant
N
Native .NET Data Provider, 1-5, 1-9
.NET Stored Procedures, 1-5
NoSQL Database, 1-4
O
OC4J. See Oracle Application Server Containers for J2EE (OC4J)
OID. See Oracle Internet Directory (OID)
OLAP. See Oracle On-Line Analytical Processing (OLAP)
online datafile move, 1-3
online index rebuild, 1-3
online index-organized table organization, 1-3
online table redefinition, 1-3
option_usage.sql, 2-31
options. See database options
Oracle Active Data Guard, 1-3, 2-2
Oracle Advanced Analytics, 1-7, 2-2
Oracle Advanced Compression, 1-7, 2-3
Oracle Advanced Security, 1-5, 1-10, 2-4
Oracle Application Express, 1-14
Oracle Application Server Containers for J2EE (OC4J), 1-14
Oracle Automatic Storage Management (Oracle ASM), 1-12
Oracle Automatic Storage Management Cluster File System (Oracle ACFS), 1-10
Oracle Cloud Management Pack, 1-6, 2-11
Oracle Clusterware, 1-11, 1-12
Oracle Connection Manager, 1-8, 1-11
Oracle Data Guard, 1-3
Oracle Data Masking and Subsetting Pack, 1-6, 2-14
Oracle Database Backup Cloud Service, 1-11
Oracle Database Enterprise Edition, 1-1
feature availability, 1-2
management packs, 2-11
options, 2-1
restricted-use licensing, 1-14
Oracle Database Express Edition, 1-1
feature availability, 1-2
special-use licensing, 1-11
Oracle Database Extensions for .NET, 1-9
Oracle Database Gateway for ODBC, 1-12
Oracle Database In-Memory, 2-5
Oracle Database Lifecycle Management Pack, 1-6, 2-16
Oracle Database Mobile Server, 2-32
Oracle Database Personal Edition, 1-2
feature availability, 1-2
options, 2-1
Oracle Database Provider for DRDA, 1-12
Oracle Database Real Application Security, 1-5
Oracle Database Standard Edition, 1-1
  feature availability, 1-2
  options, 2-1
  restricted-use licensing, 1-14
  special-use licensing with Oracle Real Application Clusters, 1-12
Oracle Database Standard Edition 2, 1-1
  feature availability, 1-2
Oracle Database Standard Edition One, 1-1
  feature availability, 1-2
  restricted-use licensing, 1-14
Oracle Database Vault, 1-5, 2-5
Oracle Developer Tools for Visual Studio .NET, 1-5
Oracle Diagnostics Pack, 1-6, 2-27
Oracle Exadata, 1-4, 1-8
Oracle Exadata Flash Cache Compression, 1-7, 1-9
Oracle Fail Safe, 1-2
Oracle HTTP Server, 1-14
Oracle Internet Directory (OID), 1-10, 1-14
Oracle Label Security, 1-5, 2-5
Oracle Load Testing, 1-14
Oracle Load Testing Controller, 1-14
Oracle Multitenant, 1-2, 2-6
Oracle OLAP. See Oracle On-Line Analytical Processing (OLAP)
Oracle OLE DB Provider, 1-9
Oracle On-Line Analytical Processing (OLAP), 1-7, 2-6
Oracle Partitioning, 1-7, 1-8, 2-7
Oracle Programmer, 1-5, 2-32
Oracle R Enterprise, 1-7
Oracle RAC One Node, 1-2, 2-7
Oracle RAC. See Oracle Real Application Clusters
Oracle Real Application Clusters, 1-2, 1-4, 1-12, 2-1, 2-7
Oracle Real Application Testing, 1-6, 1-13, 1-14, 2-8, 2-9
Oracle Secure Backup, 1-13, 2-33
Oracle Secure Backup Cloud Module, 1-13
Oracle Secure Backup Express, 1-13
Oracle Spatial and Graph, 1-8, 2-9
Oracle Streams, 1-8
Oracle TimesTen Application-Tier Database Cache, 1-4, 2-11
Oracle Tuning Pack, 1-6, 2-28, 2-30
Oracle Wallet, 1-13
Oracle Warehouse Builder, 1-14
Parallel Data Pump Export/Import, 1-7
partitioned spatial indexes, 1-8
Partitioning. See Oracle Partitioning
Personal Edition. See Oracle Database Personal Edition
physical standby, 2-2
PL/SQL function result cache, 1-4
pluggable databases, 1-2, 2-6
point-in-time recovery, 1-3
prefix compression, 1-7
product family, 1-1
Provider for DRDA. See Oracle Database Provider for DRDA
Q
Quality of Service Management, 1-4
query cache, 1-4
query results cache, 1-4
R
R. See Oracle R Enterprise
RAC One Node. See Oracle RAC One Node
rapid home provisioning, 1-6
Real Application Clusters. See Oracle Real Application Clusters
Real Application Security. See Oracle Database Real Application Security
Real Application Testing. See Oracle Real Application Testing
real-time cascading standby, 1-3
recovery,
  block-level media, 1-3
  fast-start fault, 1-3
  parallel backup and, 1-3
  point-in-time, 1-3
  trial, 1-3
redaction, 1-5
redo apply, 1-3
replication
  advanced, 1-8
  basic, 1-8
restricted-use licensing, 1-14
rolling upgrades, 1-3
row-level locking, 1-7, 1-9
S
Secure Backup. See Oracle Secure Backup
semantic technologies, 1-8
smart flash cache, 1-4
snapshot standby, 1-3
snapshots, 1-2
software editions, 1-1
Spatial and Graph. See Oracle Spatial and Graph
special-use licensing, 1-9
SQL apply, 1-3
SQL Performance Analyzer, 1-14, 2-8
SQL Plan Management, 1-6
SQL Tuning Sets, 1-6

P
parallel
  backup and recovery, 1-3
  capture and apply, 1-7
  index build/scans, 1-7
  query/DML, 1-7
  spatial index builds, 1-8
  statement queuing, 1-7
  statistics gathering, 1-7
Index-4

SQLJ,  1-5
Streams.  See Oracle Streams
Supercluster,  1-8

T
table compression,  1-7
tablespace point-in-time recovery,  1-3
third-party licenses,  A-1
TimesTen Application-Tier Database Cache.  See Oracle TimesTen Application-Tier Database Cache
Transaction Guard,  1-3
transportable tablespaces,  1-7
trial recovery,  1-3
Tuning Pack.  See Oracle Tuning Pack

U
Uncompressed Flashback Data Archive,  1-3
upgrades, rolling,  1-3
used_options_details.sql,  2-31

V
Virtual Private Database,  1-5
VLM Support,  1-9

W
Wallet.  See Oracle Wallet
Windows platform, features specific to,  1-9
workload management,  1-4

X
XE.  See Oracle Database Express Edition
XStream,  1-7, 1-14

Z
ZFS storage,  1-8
zone maps,  1-4, 1-9, 2-7