

Oracle® Enterprise Manager

Licensing Information

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Preface

This document, which is part of the Program Documentation under the terms of your Oracle licensing agreement, is intended to help you understand the features, functionality, and options available for Oracle Programs. If you have questions about licensing needs, please contact your Oracle sales representative or refer to the resources listed in "[Related Documents](#)" for more information.

Oracle Enterprise Manager 12c is available in multiple editions, each suitable for different development and deployment scenarios. Oracle also offers several Enterprise Manager options that enhance the capabilities of Oracle Enterprise Manager for specific application requirements. Oracle Enterprise Manager Licensing Information provides information on these optional products.

This Preface contains the following topics:

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

Intended Audience

This book is intended for all purchasers of Oracle Enterprise Manager 12.1.

Documentation Accessibility

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

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Related Documents

For more information, see the following documents in the Oracle documentation set:

- *Oracle Database Licensing Information*
- *Oracle Application Server Licensing Information*
- *Oracle Enterprise Manager Concepts*

You can access these documents from the Oracle Technology Network:

<http://www.oracle.com/technology/documentation/index.html>

Additionally, the Oracle Software Investment Guide is available for downloading at:

<http://www.oracle.com/corporate/pricing/sig.html>

Conventions

The following text conventions are used in this document:

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

Introduction

Oracle Enterprise Manager Cloud Control 12c is Oracle's single, integrated solution for managing all aspects of the Oracle Cloud and the applications running on it. Cloud Control couples a potent, top-down monitoring approach to delivering the highest quality of service for applications with a cost-effective automated configuration management, provisioning, and administrative solution. This powerful combination provides unequalled management for any size Oracle data center.

Oracle also offers several options, management packs, management plug-ins, and other products that enhance the capabilities of Oracle Enterprise Manager for specific purposes. This guide describes the separately licensed Oracle Enterprise Manager management packs, management plug-ins, and other products you can purchase to enhance the capabilities of Oracle Enterprise Manager in specific environments. This guide contains the following chapters and appendix:

- [Chapter 2, "Enterprise Database Management"](#)
- [Chapter 3, "Oracle Middleware Enterprise Management"](#)
- [Chapter 4, "Identity Management Enterprise Management"](#)
- [Chapter 5, "Other Infrastructure Management"](#)
- [Chapter 6, "Application Performance and Regression Testing"](#)
- [Chapter 7, "End User Monitoring"](#)
- [Chapter 8, "Application Management"](#)
- [Chapter 9, "Cloud Management"](#)
- [Chapter 10, "Base Enterprise Manager Functionality"](#)
- [Appendix A, "Third-Party Licenses"](#)
- [Appendix B, "Third-Party Licenses for Oracle Enterprise Ops Center"](#)
- [Appendix C, "Oracle Licenses for Oracle Enterprise Manager Ops Center"](#)

License Authorization Requirement

You cannot use the options, packs, reports, licensed repository views, or Command Line Interface (CLI) verbs described in these chapters without the appropriate licenses. Although these options, Management Packs, or products may be included in product CDs or downloads, or described in documentation that you receive, this does not authorize you to use them without the appropriate licenses.

Showing Management Pack Information

Enterprise Manager indicates licensed links by showing an abbreviation for a pack beside the licensed link. The default is to not show these abbreviations. To enable this feature, do the following:

1. Access any **Enterprise Manager Cloud Control** page.
2. Click **Setup** (in the upper right corner of the page), then **Management Packs**, then **Show Management Pack Information**.

For instance, click the **Targets** menu, then **Services**. Click a service name. The Service Home page that appears displays Service Level Management (SLM) abbreviations beside several links. If you click the abbreviation link, a table appears that provides the abbreviations, pack names, target types, and descriptions for all of the packs.

Enabling and Disabling the Oracle Enterprise Manager Packs

To enable or disable the functionality for most packs in Oracle Enterprise Manager Cloud Control 12c:

1. Log in to Enterprise Manager Cloud Control 12c as a super administrator.
To check your Cloud Control version, click **Help** (in the upper right corner of the page), then **About Oracle Enterprise Manager**. A pop-up window will appear to display the version.
2. Click **Setup** (in the upper right corner of the page), **Management Packs**, then **Management Pack Access**.

The Management Pack Access page allows you to enable or disable access for each Management Pack on each listed target. Select **Licensable Targets** (default) or **All Targets** to view management pack access information. The Pack Access view options are:

- **Target Based** - For each target listed, you can enable or disable the management packs associated with the target. For the target listed in the **Name** column, select the management packs for which you have access and click the box for that pack.

For a new target, click the box in the **Pack Access Agreed** column to agree to the terms of the licensing agreement. The Pack Access Agreed option is available for selection only for a newly added target for which you have not accepted the terms of the Licensing Agreement. By default, the Pack Access Agreed option is not selected.

Click **Apply** to save your changes.

- **Pack Based Batch Update** - You can enable or disable management packs as a group across all licensable targets or for a specific target type. Select the type from the drop-down list. The Available Packs list will update based on your selection.

Select the pack you want to enable/disable. Hold the Control key to select multiple packs. Click **Move** and then either the **Enable** or **Disable** access options.

Click **Apply** to save your changes.

- **Auto Licensing** - Enterprise Management users do not need to manually enable or disable management packs every time a new target is discovered.

By using the Auto Licensing feature, you can define for each target type what packs a new target will be entitled to upon discovery.

For example, if you add an additional database target, then all associated packs (such as, Oracle Database Lifecycle Management Pack, Database Tuning Pack) will be auto granted to the newly discovered database target. If you do not want these packs automatically enabled for new targets, you must disable Auto Licensing for the associated packs.

Select the pack you want to enable/disable. Hold the Control key to select multiple packs. Click **Move** and then either the **Enable** or **Disable** Auto Licensing options. By default, Auto Licensing is enabled.

If you disable any pack, it will appear in the Auto Licensing Disable List. Both the management pack name and the associated type will be included. Also, all targets of the associated target type discovered in the future will not get the pack by default.

Click **Apply** to save your changes.

When you disable a Management Pack, links that are part of that pack will either be disabled or, when a link is clicked, a message will indicate that the associated pack is not licensed for use. After performing the previous steps to disable a pack, any administrator who logs in to Oracle Enterprise Manager Cloud Control 12c cannot access any Management Pack functionality that you have disabled.

Additional Database and Fusion Middleware Information

For additional information about licensed products associated with either Oracle Database 11g, *Oracle Fusion Middleware*, or *Oracle WebLogic Server*, see the following documentation on the Oracle Technology Network:

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

- Oracle Database Licensing Information
- Oracle Fusion Middleware Licensing Information

Enterprise Manager Restricted-use License

- Enterprise Manager includes a restricted-use license of the Oracle Database for use only with the Oracle Management Repository or other complementary repositories included with Enterprise Manager (such as, Ops Center, Real User Experience Insight, Load Testing, and Functional Testing).

Additional database options or additional servers for disaster recovery require separate licensing. Customers receive one single-instance database with the Cloud Control, or RMAN, repository. To protect the repository with Data Guard, customers need to purchase a license for the standby site. To protect the repository with Oracle Real Application Clusters, customers must license the second node for the database, and both nodes require an Oracle Real Application Clusters license.

- Use of Oracle WebLogic Server with Oracle Enterprise Manager is restricted to the servlet functionality without clustering for the Oracle Management Service (OMS).
- Use of Oracle Virtual Assembly Builder is licensed, as long as the assemblies are deployed through Enterprise Manager.
- Oracle Enterprise Manager includes restricted use of Oracle Business Intelligence Publisher and Business Intelligence Mobile for use with Enterprise Manager functions and interfaces only.

Enterprise Database Management

Enterprise Manager offers the following management packs for Oracle Database:

- [Diagnostics Pack for Oracle Database](#)
- [Tuning Pack for Oracle Database](#)
- [Database Lifecycle Management Pack for Oracle Database](#)
- [Oracle Data Masking Pack for Oracle and non-Oracle Databases](#)
- [Oracle Test Data Management Pack for Oracle and non-Oracle Databases](#)
- [Legacy: Configuration Management Pack for Oracle Database](#)
- [Legacy: Change Management Pack for Oracle Database](#)
- [Legacy: Provisioning and Patch Automation Pack for Oracle Database](#)

These management packs can be purchased only with Enterprise Edition. The features in these packs are accessible through Oracle Enterprise Manager Database Control and Oracle Enterprise Manager Cloud Control, and APIs provided with Oracle Database software.

The following sections in this chapter describe the licensed features for these packs.

Diagnostics Pack for Oracle Database

The Diagnostics Pack for Oracle Database provides unique functionality (such as automatic identification of performance bottlenecks, guided problem resolution, and comprehensive system monitoring) for managing the performance of Oracle Database environments. You can access the Diagnostics Pack functionality through Enterprise Manager licensed links.

Beginning with Oracle Database 11g, the `CONTROL_MANAGEMENT_PACK_ACCESS` initialization parameter controls access to the Diagnostic Pack and Tuning Pack. You can set this parameter to one of the following values:

- `DIAGNOSTIC+TUNING` — Diagnostic Pack and Tuning Pack functionality is enabled in the database server.
- `DIAGNOSTIC` — Only Diagnostic Pack functionality is enabled in the server.
- `NONE` — Diagnostic Pack and Tuning Pack functionality is disabled in the database server.

Features

The Diagnostics Pack includes the following features, which you can use after purchasing a license for the pack.

Feature	Description
Adaptive metric thresholds	Capture "baselines" of workload performance metrics during "normal" performance and compares against the same metrics during poor performance to diagnose the causes. Set adaptive thresholds using a pre-defined baseline to accurately detect alert conditions when a system has predictably varying workloads.
Automatic Database Diagnostic Monitor (ADDM)	Automatic performance analysis based on AWR data.
Automatic Workload Repository (AWR)	Capture statistics automatically, including snapshot data, active session history data, and workload reports.
Blackouts	Suspend monitoring on targets to support scheduled maintenance periods.
Exadata Cell Grid Administration	Provides the following information: <ul style="list-style-type: none"> ■ IORM settings ■ Disk Objective Trends ■ Average throttle time for Disk I/Os: All and individual Databases ■ Disk utilization by all databases
Exadata Cell Grid Performance	Provides the following trending information: <ul style="list-style-type: none"> ■ IOPS, throughput, Cell Disk I/O load ■ All CPU, memory, and Network utilization ■ Flash cache usage Provides average response time information for all hard disks and flash disks. Provides Workload Distribution information across all databases.
Exadata Cell Group Health Overview Page	Provides an integrated health overview from the Database Instance performance page. Provides historical trend information of availability, including: <ul style="list-style-type: none"> ■ ASM Diskgroup health ■ Cell health ■ Network health ■ Cell Configuration health
Exadata Resource Utilization	Provides the following Compute node resource information <ul style="list-style-type: none"> ■ Database CPU utilization ■ Database placement ■ Cluster placement Provides the following Storage Server resource information: <ul style="list-style-type: none"> ■ Database I/O utilization ■ Disk group space allocation
Management Connectors	Helpdesk (ticketing) connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems.

Feature	Description
Memory access mode	Retrieve performance statistics directly from the Shared Global Area (SGA).
Metric and Alert/Event History	View metric and alert/event history and its associated details.
Monitoring Templates and Template Collections	Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group.
Notifications	Define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules.
Performance monitoring and diagnostics	Measure performance and diagnose performance issues.
User-Defined Metrics and Metric Extensions	Create new metrics to monitor conditions specific to customer environments.

Note: Generation of alerts (through Enterprise Manager or directly by the server in Oracle Database 12c) is not part of this pack; it is free with the database.

Licensed Links

To determine which links are part of the Diagnostics Pack:

- Click **Setup** (upper right corner of the page), then **Management Pack Access**.
- On the **Management Pack Access** page, you can grant and remove access for all management packs.
 - For Enterprise Manager Database Control, remove access for the **Database Diagnostics Pack** and click **Apply**.
 - For Enterprise Manager Cloud Control, remove access for the **Database Diagnostics Pack** and click **Apply**.

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

Command-Line APIs

Access Diagnostic Pack features through the following database server APIs and command-line interfaces:

Database Server API or CLI Interface	Comment
DBMS_WORKLOAD_REPOSITORY	
DBMS_ADDM	

Database Server API or CLI Interface	Comment
DBMS_ADVISOR	Specify ADDM as the value of the <code>advisor_name</code> parameter, or specify for the value of the <code>task_name</code> parameter any value starting with the ADDM prefix.
DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT	
V\$ACTIVE_SESSION_HISTORY	Also includes the underlying table X\$ASH
DBA_STREAMS_TP_PATH_BOTTLENECK	
DBA_ADDM_*	
Data dictionary views beginning with DBA_ADDM_	
DBA_STREAMS_TP_COMPONENT_STAT	This filter clause to any query on this API shows Diagnostic-Pack-dependent data: <pre>where STATISTIC_UNIT = 'PERCENT'</pre> For example, the following query shows Diagnostic-Pack-dependent data only: <pre>SELECT * FROM DBA_STREAMS_TP_COMPONENT_STAT where STATISTIC_UNIT = 'PERCENT';</pre>
Data dictionary views beginning with DBA_HIST_	Includes the underlying tables, except for these views that you can use without the Diagnostic Pack license: <ul style="list-style-type: none"> - DBA_HIST_SNAPSHOT - DBA_HIST_DATABASE_INSTANCE - DBA_HIST_SNAP_ERROR - DBA_HIST_SEG_STAT - DBA_HIST_SEG_STAT_OBJ - DBA_HIST_UNDOSTAT.
Data dictionary views with the prefix DBA_ADVISOR_	Only if queries to these views return rows with the value ADDM in the <code>ADVISOR_NAME</code> column or a value of ADDM* in the <code>TASK_NAME</code> column or the corresponding <code>TASK_ID</code>

Licensed Reports

The following reports found in the `/rdbms/admin/` directory of the Oracle home directory are part of this pack:

<code>awrrpt.sql</code>	<code>addmrpt.sql</code>	<code>awrsqrpi.sql</code>
<code>awrrpti.sql</code>	<code>addmrpti.sql</code>	<code>awrsqrpt.sql</code>
<code>awrgrpt.sql</code>	<code>ashrpt.sql</code>	<code>awrextr.sql</code>
<code>awrgrpti.sql</code>	<code>ashrpti.sql</code>	<code>awrload.sql</code>
<code>awrgdrpt.sql</code>	<code>awrddrpt.sql</code>	<code>awrinfo.sql</code>
<code>awrgdrpi.sql</code>	<code>awrddrpi.sql</code>	<code>spawrrac.sql</code>

Licensed Repository Views

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

Monitoring Views

MGMT\$BLACKOUT_HISTORY	MGMT\$AVAILABILITY_HISTORY
MGMT\$BLACKOUTS	MGMT\$ALERT_CURRENT
MGMT\$ALERT_ANNOTATIONS	MGMT\$ALERT_HISTORY
MGMT\$ALERT_NOTIF_LOG	MGMT\$METRIC_DETAILS
MGMT\$TARGET_METRIC_COLLECTIONS	MGMT\$METRIC_CURRENT
MGMT\$METRIC_COLLECTIONS	MGMT\$METRIC_HOURLY
MGMT\$TARGET_METRIC_SETTINGS	MGMT\$METRIC_DAILY
MGMT\$AVAILABILITY_CURRENT	

Template Views

MGMT\$TEMPLATES
MGMT\$TEMPLATE_POLICY_SETTINGS
MGMT\$TEMPLATE_METRIC_COLLECTION
MGMT\$TEMPLATE_METRIC_SETTINGS

Tuning Pack for Oracle Database

The Tuning Pack for Oracle Database gives administrators the ability to automate the application tuning process. You can access the Tuning Pack functionality through Enterprise Manager licensed links.

Note: The Tuning Pack for Oracle Database requires a Diagnostics Pack for Oracle Database license. Therefore, you must license both of these packs.

Beginning with Oracle Database 11g, the `CONTROL_MANAGEMENT_PACK_ACCESS` initialization parameter controls access to the Diagnostic Pack and Tuning Pack. You can set this parameter to one of the following values:

- `DIAGNOSTIC+TUNING` — Diagnostic Pack and Tuning Pack functionality is enabled in the database server.
- `DIAGNOSTIC` — Only Diagnostic Pack functionality is enabled in the server.
- `NONE` — Diagnostic Pack and Tuning Pack functionality is disabled in the database server.

Features

The Tuning Pack includes the following features, which you can use after purchasing a license for the pack.

Feature	Definition
Automatic Plan Evolution of SQL Plan Management	Automatically evolves unaccepted execution plans when or if a better plan exists.
Real-time SQL Monitoring	Monitor execution of long-running or parallel SQL statements in real-time.
Reorganize objects	Reorganizes database space usage for objects or tablespaces to improve performance.
SQL Access Advisor	Recommends schema changes needed to improve database performance.

Feature	Definition
SQL Tuning Advisor	Analyze SQL statements and make recommendations for better execution. Includes an automatic mode to run during system maintenance windows as a maintenance task.
SQL Tuning Sets	A database object that captures and manages SQL workloads.

Beginning with Oracle Database 11g, the `CONTROL_MANAGEMENT_PACK_ACCESS` initialization parameter controls access to the Diagnostic Pack and Tuning Pack. You can set this parameter to one of the following values:

- `DIAGNOSTIC+TUNING` — Diagnostic Pack and Tuning Pack functionality is enabled in the database server.
- `DIAGNOSTIC` — Only Diagnostic Pack functionality is enabled in the server.
- `NONE` — Diagnostic Pack and Tuning Pack functionality is disabled in the database server.

Licensed Links

To determine which links are part of the Tuning Pack:

- Click **Setup** (upper right corner of the page), then **Management Packs**, and then **Management Pack Access**.
- On the **Management Pack Access** page, you can grant and remove access for all the management packs.
 - For Enterprise Manager Database Control, remove access for the **Database Tuning Pack** and click **Apply**.
 - For Enterprise Manager Cloud Control, remove access for the **Database Tuning Pack** and click **Apply**.

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

Command-Line APIs

You can access Tuning Pack features through the following database server APIs and command-line interfaces:

Database Server API or CLI Interface	Comment
<code>DBMS_SQLTUNE</code>	
<code>DBMS_ADVISOR</code>	When the value of the <code>advisor_name</code> parameter is either SQL Tuning Advisor or SQL Access Advisor.
<code>V\$SQL_MONITOR</code>	
<code>V\$SQL_PLAN_MONITOR</code>	

Licensed Reports

The `sqltrpt.sql` report in the `/rdbms/admin/` directory of the Oracle home directory is part of this pack.

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:

Feature	Definition
Client system analyzer	Enable your system administrators to collect and analyze configuration information and data from end-user systems. Using the pre-installed application enables you to collect end-user configuration information without setting up a separate Web server. The Management Agents collect, analyze, and upload the end-user configuration information to the Management Repository.
Compliance	Compliance Frameworks, Standards and extensibility to meet industry and regulatory compliance requirements.
Configuration Collection Extensibility	Create custom configuration collections and extend current collections.
Configuration Compare	Compare configurations, one-to-one, one-to-many.
Configuration History	Report and notify on configuration or relations changes during a specific time frame.
Configuration Instance Browser	View Configuration Items and associations associated with a target.
Configuration Save	Save configurations for reference, baselines or Gold Standards.
Configuration Search	Search for Configuration Items on a specific target or across relationships.
Configuration Topology	View topology for a specified target and its dependencies along with other targets that are dependent on it.

Feature	Definition
Copy Objects	Copy database objects with data, with a subset of data, or without data.
Database Patching	End-to-end patch automation for Oracle Database and Real Application Cluster (RAC).
Database Provisioning	Provision Oracle Database and Real Application Cluster (RAC).
Database Upgrade	Upgrade existing Oracle Database.
Disaster Recovery via Site Guard	Automate complete site failover of Oracle Fusion Middleware and Oracle Database and extend to include other data center components.
Note:	
Usage of Site Guard requires licenses for both WebLogic Server Management Pack Enterprise Edition as well as Database Lifecycle Management Pack.	
File Synchronization	Synchronize configuration file differences during a comparison.
Notifications	Notification on configuration changes or differences.
RAC Scale Back	Delete or scale back a single instance database from RAC.
RAC Scale Out	Extend single instance databases to RAC.
Real-time configuration change detection	Provide real-time configuration change detection and automation of compliance frameworks along with automated observation authorization using a Change Management Connector.
Real-time schema change detection	Track schema changes in real time to identify unwanted or unplanned changes.
Schema and Data Comparisons	Automate the comparison of database schema and data across Databases or saved baselines.
Schema and Data Synchronization	Propagate database objects and schemas with or without data, and update database object definitions.
Schema Change Plans	Allows developers to add changes to the schema in a plan that can be applied to multiple database.
Schema Comparisons	Compare database objects in two databases or baselines in Enterprise Manager or SQL developer.

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:

Licensed Page/Link	How to Access
Database Provisioning Procedures	<p>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.</p> <p>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.</p> <p>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.</p>
Database Upgrade	<p>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.</p> <p>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.</p>
RAC Scale Out and Scale Back	<p>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.</p> <p>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.</p> <p>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.</p>
Database Patching	<p>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.</p>
Offline Patching	<p>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.</p>

Licensed Page/Link	How to Access
Configuration Instance Browser	<p>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.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <p>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.</p>
Configuration Search	<p>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.</p>
Configuration History	<p>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.</p>
Configuration Compare	<p>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.</p>
Configuration Save	<p>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.</p>
Configuration Topology	<p>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.</p> <p>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.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <ul style="list-style-type: none"> ■ 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	<p>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.</p>

Licensed Page/Link	How to Access
File Synchronization	<p>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.</p>
Schema Comparison	<p>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.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <p>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.</p>
Schema and Data Comparisons	<p>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.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <p>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.</p>
Schema and Data Synchronization	<p>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.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <p>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.</p>
Copy Objects	<p>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.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <p>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.</p>

Licensed Page/Link	How to Access
Real-Time Schema Change Detection	<p>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.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <p>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.</p>
Compliance	<p>From the Enterprise Manager home page, click the Enterprise menu and Compliance. All features, functions, links, buttons, and drill-downs associated with the Library, Real-time Observations, and Results pages are licensed as part of the Database Lifecycle Management Pack.</p>
Real-time Configuration Change Detection	<p>From the Enterprise Manager home page, click the Enterprise menu and Compliance. All features, functions, links, buttons, and drill-downs associated Library, Results and Real-Time Observations pages are licensed as part of the Database Lifecycle Management Pack.</p>

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.

Licensed Feature	Description
Application Configuration Console	Provides IT infrastructure teams with an automated “gold master” approach to application infrastructure configuration management. Application Configuration Console includes a restricted-use license for Oracle Database (Enterprise Edition) solely for the purpose of running the Application Configuration Console Server.
The oplan Utility	A tool that operates with OPatch to provide advanced capability for patching Oracle software. If oplan is utilized in any non-Oracle application, tool, or procedure a Database Lifecycle Management Pack License must be purchased for all CPUs the tool, application, or procedure is being applied to.
Migrate to ASM	From the Enterprise Manager home page, click on Targets, Databases , and then select a Database. From the database home page, click on Administration, Migrate to ASM . All features, functions, links, buttons and drill-downs on this page 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 Administration, Migrate to ASM . All features, functions, links, buttons and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack.
Self Update	From the Enterprise Manager home page, click the Setup menu, Extensibility , and then Self Update . The downloading and applying any updates associated with Patching, Provisioning, and Compliance are licensed as part of the Database Lifecycle Management Pack.

Licensed Command Line Interface Verbs

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

confirm_instance	reschedule_instance
describe_instance	resume_instance
describe_procedure_input	save_procedure
get_executions	stop_instance
get_instance_data	submit_procedure
get_instance_status	suspend_instance
get_instances	update_and_retry_step
get_procedure_types	update_procedure_inpu
get_procedure_xml	create_database
get_procedures	clone_database
get_retry_argument	upgrade_database
ignore_instance	

Licensed Parameters

The `init.ora` parameter `ENABLE_DDL_LOGGING` is licensed as part of the Database Lifecycle Management Pack when set to `TRUE`. The default setting is `FALSE`.

Licensed Repository Views

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

Compliance Views

MGMT\$COMPLIANCE_STANDARD_RULE	MGMT\$CS_DB_REDO_LOGS
MGMT\$COMPLIANCE_STANDARD	MGMT\$CS_DB_TABLESPACES
MGMT\$COMPLIANCE_STANDARD_GROUP	MGMT\$CS_DB_TBSP_SEGSPACE_MGMT
MGMT\$CS_EVAL_SUMMARY	MGMT\$CS_FEATURE_USAGE
MGMT\$COMPOSITE_CS_EVAL_SUMMARY	MGMT\$CS_HA_INFO
MGMT\$CS_ASM_DISKGRP_SETTINGS	MGMT\$CS_GROUP_EVAL_SUMMARY
MGMT\$CS_DB_CONTROL_FILE_COUNT	MGMT\$CS_RULE_EVAL_SUMMARY
MGMT\$CS_DB_INIT_PARAMS	MGMT\$CS_TARGET_ASSOC
MGMT\$CS_DB_RBS_IN_SYSTEM	MGMT\$CCC_ALL_OBSERVATIONS
MGMT\$CS_DB_REC_SEG_SETTINGS	MGMT\$CCC_ALL_OBS_BUNDLES
MGMT\$CS_DB_REC_TS_SETTINGS	MGMT\$CCC_DIAG_ANALYTICS
MGMT\$CS_DB_REC_USER_SETTINGS	MGMT\$CCC_DIAG_QUEUEBACKLOG
MGMT\$CS_DB_REDO_LOG_COUNT	

Provisioning Views

EM\$PROV_APPTYPES
EM\$PROVAPP_METADATA_VERSION
EM\$PROVAPP_METADATA
EM\$PROVAPP_TAGS
EM\$PROVAPP_TAG_PROPERTIES

Patch Recommendation

MGMT\$PA_RECOM_METRIC_SOURCE

Patching Views

MGMT\$ARU_PRODUCTS	MGMT\$PA_FINAL_PATCH_LIST
MGMT\$ARU_PLATFORMS	mgmt\$pa_target_mapping
MGMT\$ARU_RELEASES	MGMT\$RECOM_METRIC_SOURCE
MGMT\$ARU_TARGETS	gc_pc_targets
MGMT\$ARU_LANGUAGES	GC_PC_EXECUTION_INSTANCES
MGMT\$ARU_PRODUCT_RELEASE_MAP	MGMT\$PA_AFFTED_TARGETS
MGMT\$ARU_FAMILY_PRODUCT_MAP	MGMT\$PA_AFFTED_HOST_OH
MGMT\$ARU_PATCH_RECOMMENDATIONS	MGMT\$PA_AFFTED_HOST_GUID_OH
MGMT\$PR_APPL_PATCHES_TO_OH_TGT	MGMT\$PR_APPL_PATCHES_TO_OH
MGMT\$PR_HOMES_AFFECTED_COUNT	MGMT\$PR_HOME_INFO
MGMT\$PA_TARGET_MAPPING	MGMT\$APPLIED_PATCHES
GC_PC_PLAN_ANALYSIS_RS	MGMT\$APPLIED_PATCHSETS
gc_pc_plan_remedy	GC\$EM_PC_PLANS
gc_pc_plan_remedy_details	GC\$EM_PC_PLAN_PATCHES
gc_pc_plan_users	GC\$EM_PC_PLAN_TARGETS

Configuration Views

MGMT\$CCS_DATA	MGMT\$DB_REDOLOGS
MGMT\$CCS_DATA_SOURCE	MGMT\$DB_ROLLBACK_SEGS
MGMT\$CCS_DATA_SOURCE_VISIBLE	MGMT\$DB_SGA
MGMT\$CCS_DATA_VISIBLE	MGMT\$DB_TABLESPACES
MGMT\$DB_CONTROLFILES	MGMT\$DB_TABLESPACES_ALL
MGMT\$DB_DATAFILES	MGMT\$ECM_CURRENT_SNAPSHOTS
MGMT\$DB_DBNINSTANCEINFO	MGMT\$ECM_VISIBLE_SNAPSHOTS
MGMT\$DB_FEATUREUSAGE	MGMT\$SERVICETAG_INSTANCES
MGMT\$DB_INIT_PARAMS	MGMT\$SERVICETAG_REGISTRY
MGMT\$DB_LICENSE	MGMT\$UNPATCHABLE_DB_TARGETS
MGMT\$DB_OPTIONS	

Oracle Home Patching Views

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

Security Views

MGMT\$ESA_ALL_PRIVS_REPORT	MGMT\$ESA_EXMPT_ACCESS_REPORT
MGMT\$ESA_ANY_DICT_REPORT	MGMT\$ESA_KEY_OBJECTS_REPORT
MGMT\$ESA_ANY_PRIV_REPORT	MGMT\$ESA_OH_OWNERSHIP_REPORT
MGMT\$ESA_AUDIT_SYSTEM_REPORT	MGMT\$ESA_OH_PERMISSION_REPORT
MGMT\$ESA_BECOME_USER_REPORT	MGMT\$ESA_POWER_PRIV_REPORT
MGMT\$ESA_CATALOG_REPORT	MGMT\$ESA_PUB_PRIV_REPORT
MGMT\$ESA_CONN_PRIV_REPORT	MGMT\$ESA_SYS_PUB_PKG_REPORT
MGMT\$ESA_CREATE_PRIV_REPORT	MGMT\$ESA_TABSP_OWNERS_REPORT
MGMT\$ESA_DBA_GROUP_REPORT	MGMT\$ESA_TRC_AUD_PERM_REPORT
MGMT\$ESA_DBA_ROLE_REPORT	MGMT\$ESA_WITH_ADMIN_REPORT
MGMT\$ESA_DIRECT_PRIV_REPORT	MGMT\$ESA_WITH_GRANT_REPORT

Client Configuration Views

MGMT\$CSA_COLLECTIONS	MGMT\$CSA_HOST_CPUS
MGMT\$CSA_FAILED	MGMT\$CSA_HOST_TOCARDS
MGMT\$CSA_HOST_OS_COMPONENTS	MGMT\$CSA_HOST_NICS
MGMT\$CSA_HOST_SW	MGMT\$CSA_HOST_OS_PROPERTIES
MGMT\$CSA_HOST_COOKIES	MGMT\$CSA_HOST_OS_FILESYSEMS
MGMT\$CSA_HOST_CUSTOM	MGMT\$ECM_CONFIG_HISTORY
MGMT\$CSA_HOST_RULES	

Oracle Data Masking Pack for Oracle and non-Oracle Databases

The Oracle Data Masking Pack for Oracle and non-Oracle Databases offers the ability to mask regulated or confidential data on test or development systems.

Note: The Oracle Data Masking Pack must be licensed for database servers from which the sensitive data originates, as well as database servers where the sensitive data is masked.

Features

The Oracle Data Masking Pack includes the following features you can use after purchasing a license for the pack.

Feature	Definition
Application Accelerators	This feature covers application templates needed to support Data Discovery and modeling and Data Masking. The Application Accelerators support the following applications: <ul style="list-style-type: none"> ■ E-Business Suite ■ Fusion Applications ■ Fusion Applications Templates for Masking
Data Discovery and Modeling	Discover and design application data models that serve as a knowledge base for creating Data Masking and Data Subsetting definitions.
Data Masking	Mask regulated or confidential data on test and development systems.
Export or import format libraries	Provide a ready-to-use definition for common sensitive data that database administrators can reference when specifying a mask definition.
Sensitive Column Types and Sensitive Data Discovery	Allows the specifications of search patterns for various types of sensitive data and discovery of sensitive columns based on running the search on the database.

Licensed Links

The list that follows itemizes the links that require licensing of the Oracle Data Masking Pack for Oracle and non-Oracle Databases.

Licensed Page/Link	How to Access
Masking Definition page	From the Enterprise Summary home page, click the Targets menu, then Databases . Select a database name to display the Database Instance home page. Click the Schema menu, then Definitions in the Data Masking section. All links, buttons, and drilldowns on this page are licensed
Format Library page	From the Enterprise Summary home page, click the Targets menu, then Databases . Select a database name to display the Database Instance home page. Click the Schema menu, then Format Library in the Data Masking section. All links, buttons, and drilldowns on this page are licensed
Data Discovery and Modeling	From the Enterprise Summary home page, click the Grid menu, then Quality Management .

Licensed Page/Link	How to Access
Data Masking	From the Enterprise Summary home page, click the Grid menu, then Quality Management .
Data Masking formats	From the Enterprise Summary home page, click the Grid menu, then Quality Management .

Licensed Command Line Interface (CLI) Verbs

The following Enterprise Manager CLI verbs are licensed as part of the Oracle Secure Test Data Management Pack for Oracle Database.

export_masking_definition	reassoc_masking_definition
generate_masking_script	save_masking_script
import_masking_definition	submit_masking_job
list_masking_definitions	

Oracle Test Data Management Pack for Oracle and non-Oracle Databases

The Oracle Test Data Management Pack for Oracle and non-Oracle Databases offers the ability to shrink production data into a smaller size database for the purpose s of application development or testing based on rules.

Note: The Oracle Test Data Management Pack must be licensed for database servers from which the production data originates, as well as database servers where the production data is reduced.

Features

The Oracle Test Data Management Pack includes the following features you can use after purchasing a license for the pack.

Feature	Definition
Application Accelerators	This feature covers application templates needed to support Data Discovery and modeling and Data Subsetting. The Application Accelerators support the following applications: <ul style="list-style-type: none"> ■ E-Business Suite ■ Fusion Applications
Data Discovery and Modeling	Discover and design application data models that serve as a knowledge base for creating Data Masking and Data Subsetting definitions.
Data Subset Definitions	Defines the rules for the subset operation and executes the subset job on the database to reduce its size.

Licensed Links

The list that follows itemizes the links that require licensing of the Oracle Test Data Management Pack for Oracle and non-Oracle Databases:

Licensed Page/Link	How to Access
Data Discovery and Modeling	From the Enterprise Summary home page, click the Grid menu, then Quality Management .

Licensed Page/Link	How to Access
Data Subset Definitions	From the Enterprise Summary home page, click the Grid menu, then Quality Management .

Legacy: Configuration Management Pack for Oracle Database

Enterprise Manager Cloud Control no longer offers the Configuration Management Pack for Oracle Database. Enterprise Manager 10g and 11g Customers who purchased the Configuration Management Pack for Oracle Database can utilize the following Configuration Management features in Enterprise Manager Cloud Control.

Features

You are entitled to use the following features with a previously purchased Configuration Management Pack for Oracle Database License:

Feature	Definition
Compliance	Compliance Frameworks, Standards and extensibility to meet industry and regulatory compliance requirements.
Configuration Collection Extensibility	Create custom configuration collections and extend current collections.
Configuration Compare	Compare configurations, one-to-one, one-to-many, file sync.
Configuration History	Report on configuration or relations changes during a specific time frame.
Configuration Instance Browser	View Configuration Items and associations associated with a target.
Configuration Save	Save configurations for reference, baselines or Gold Standards.
Configuration Search	Search for Configuration Items on a specific target or across relationships.
Configuration Topology	View topology for a specified target and its dependencies along with other targets that are dependent on it.
Exadata Database Machine Configuration	Provide Configuration Information for all components of the DB Machine including, Storage Cells, Database and InfiniBand Switches.
Exadata Database Machine Configuration Actions	Provides the ability to compare and search. Provides history and compliance information.
File Synchronization	Synchronize configuration file differences during a comparison.
Real-time configuration change detection	Provide real-time configuration change detection and automation of compliance frameworks.

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.

You are entitled to use the following features with a previously purchased Configuration Management Pack for Oracle Database License:

Licensed Page/Link	How to Access
Configuration Instance Browser	<p>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 Configuration Management Pack for Oracle Database.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <p>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 Configuration Management Pack for Oracle Database.</p>
Configuration Search	<p>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 Configuration Management Pack for Oracle Database.</p>
Configuration History	<p>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 Configuration Management Pack for Oracle Database.</p>
Configuration Compare	<p>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 Configuration Management Pack for Oracle Database.</p>
File Synchronization	<p>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 Configuration Management Pack for Oracle Database.</p>
Configuration Save	<p>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 Configuration Management Pack for Oracle Database.</p>

Licensed Page/Link	How to Access
Configuration Topology	<p>From the Target Home Page, click on Oracle Database, Configuration, Topology. In the View Dropdown, Used By is licensed as part of the Configuration Management Pack for Oracle Database.</p> <p>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 Configuration Management Pack for Oracle Database.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <ul style="list-style-type: none"> From the Target Home Page, click on Oracle Database, Configuration, Topology. In the View drop-down, Used By is licensed as part of the Configuration Management Pack for Oracle Database. 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 Configuration Management Pack for Oracle Database.
Configuration Collection Extensibility	<p>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 Configuration Management Pack for Oracle Database.</p>
Compliance	<p>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 Configuration Management Pack for Oracle Database.</p>
Real-time Configuration Change Detection	<p>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 Configuration Management Pack for Oracle Database.</p>

Licensed Reports

The following reports can be used with an existing license for the Configuration Management Pack for Oracle Database. The following reports and associated features 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.

All database reports in each of these sections are licensed for 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 Configuration Management Pack for Oracle Database:

- **Compliance**
- **Configuration**

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

- **Compliance**
- **Configuration**

Additional Licensed Features

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

Licensed Feature	Description
Application Configuration Console	Provides IT infrastructure teams with an automated “gold master” approach to infrastructure configuration management. Application Configuration Console includes a restricted-use license for Oracle Database (Enterprise Edition) solely for the purpose of running the Application Configuration Console Server.
Self Update	From the Enterprise Manager home page, click the Setup menu, then Extensibility and Self Update . The downloading and applying any updates associated with Configuration and Compliance are licensed as part of the Configuration Management Pack for Oracle Database.

Licensed Repository Views

The following repository views are part of the previously purchased Configuration Management Pack for Oracle Database license:

Configuration Views	
MGMT\$CCS_DATA	MGMT\$DB_INIT_PARAMS
MGMT\$CCS_DATA_SOURCE	MGMT\$DB_LICENSE
MGMT\$CCS_DATA_SOURCE_VISIBLE	MGMT\$DB_OPTIONS
MGMT\$CCS_DATA_VISIBLE	MGMT\$DB_REDOLOGS
MGMT\$CS_ASM_DISKGRP_SETTINGS	MGMT\$DB_ROLLBACK_SEGS
MGMT\$CS_DB_CONTROL_FILE_COUNT	MGMT\$DB_SGA
MGMT\$CS_DB_INIT_PARAMS	MGMT\$DB_TABLESPACES
MGMT\$CS_DB_RBS_IN_SYSTEM	MGMT\$DB_TABLESPACES_ALL
MGMT\$CS_DB_REC_SEG_SETTINGS	MGMT\$ECM_CURRENT_SNAPSHOTS
MGMT\$CS_DB_REC_TS_SETTINGS	MGMT\$ECM_VISIBLE_SNAPSHOTS
MGMT\$CS_DB_REC_USER_SETTINGS	MGMT\$HW_CPU_DETAILS
MGMT\$CS_DB_REDO_LOG_COUNT	MGMT\$HW_IO_DEVICES
MGMT\$CS_DB_REDO_LOGS	MGMT\$HW_NIC_BONDS
MGMT\$CS_DB_TABLESPACES	MGMT\$J2EE_APPLICATION
MGMT\$CS_DB_TBSP_SEGSPACE_MGMT	MGMT\$J2EEAPP_EJBCOMPONENT
MGMT\$CS_FEATURE_USAGE	MGMT\$J2EEAPP_JRFWS
MGMT\$CS_HA_INFO	MGMT\$J2EEAPP_JRFWSOPER
MGMT\$DB_CONTROLFILES	MGMT\$J2EEAPP_JRFWSPOLICY
MGMT\$DB_DATAFILES	MGMT\$J2EEAPP_JRFWSPORT
MGMT\$DB_DBNINSTANCEINFO	MGMT\$J2EEAPP_WEBAPPCOMPONENT
MGMT\$DB_FEATUREUSAGE	MGMT\$J2EEAPP_WSCONFIG

Compliance Views

MGMT\$J2EEAPP_WSPORTCONFIG	MGMT\$WEBLOGIC_RACONFIG
MGMT\$OS_INIT_SERVICES	MGMT\$WEBLOGIC_RAOUTBOUNDCONFIG
MGMT\$OS_KERNEL_PARAMS	MGMT\$WEBLOGIC_RESOURCECONFIG
MGMT\$OS_LIMITS	MGMT\$WEBLOGIC_SERVER
MGMT\$OS_MODULES	MGMT\$WEBLOGIC_STARTSHUTCLASSES
MGMT\$OS_PROPERTIES	MGMT\$WEBLOGIC_VIRTUALHOST
MGMT\$SERVICETAG_INSTANCES	MGMT\$WEBLOGIC_WEBAPPCOMPONENT
MGMT\$SERVICETAG_REGISTRY	MGMT\$WEBLOGIC_WORKMANAGER
MGMT\$UNPATCHABLE_DB_TARGETS	MGMT\$WEBLOGIC_WSCONFIG
MGMT\$WEBLOGIC_APPLICATIONS	MGMT\$COMPLIANCE_STANDARD_RULE
MGMT\$WEBLOGIC_CLUSTER	MGMT\$COMPLIANCE_STANDARD
MGMT\$WEBLOGIC_DOMAIN	MGMT\$COMPLIANCE_STANDARD_GROUP
MGMT\$WEBLOGIC_EJBCOMPONENT	MGMT\$CS_EVAL_SUMMARY
MGMT\$WEBLOGIC_JDBCdatasource	MGMT\$COMPOSITE_CS_EVAL_SUMMARY
MGMT\$WEBLOGIC_JDBCMULTIDS	MGMT\$CS_RULE_EVAL_SUMMARY
MGMT\$WEBLOGIC_JMSCONNFACORY	MGMT\$CS_GROUP_EVAL_SUMMARY
MGMT\$WEBLOGIC_JMSQUEUE	MGMT\$CS_TARGET_ASSOC
MGMT\$WEBLOGIC_JMSTOPIC	MGMT\$CCC_ALL_OBSERVATIONS
MGMT\$WEBLOGIC_JOLTCONNPOOL	MGMT\$CCC_ALL_OBS_BUNDLES
MGMT\$WEBLOGIC_MACHINE	MGMT\$CCC_DIAG_ANALYTICS
MGMT\$WEBLOGIC_NETWORK_CHANNELS	MGMT\$CCC_DIAG_QUEUEBACKLOG
MGMT\$WEBLOGIC_NODEMANAGER	

Oracle Home Patching Views

MGMT\$OH_CLONE_PROPERTIES	MGMT\$OH_PATCHED_FILE
MGMT\$OH_COMPONENT	MGMT\$OH_PATCHSET
MGMT\$OH_COMP_DEP_RULE	MGMT\$OH_PATCH_FIXED_BUG
MGMT\$OH_COMP_INST_TYPE	MGMT\$OH_VERSIONED_PATCHV MGMT\$CPF_
MGMT\$OH_CRS_NODES	ADVISORY_INFO
MGMT\$OH_DEP_HOMES	MGMT\$CPF_HOMES_INFO
MGMT\$OH_FILE	MGMT\$CPF_PATCH_INFO
MGMT\$OH_HOME_INFO	MGMT\$EM_HOMES_PLATFORM
MGMT\$OH_INSTALLED_TARGETS	MGMT\$HOMES_AFFECTED MGMT\$PATCH_ADVISORIES
MGMT\$OH_INV_SUMMARY	MGMT\$APPL_PATCH_AND_PATCHSET
MGMT\$OH_PATCH	MGMT\$APPLIED_PATCHES
MGMT\$OH_PATCHED_COMPONENT	MGMT\$APPLIED_PATCHSETS

Security Views

MGMT\$ESA_ALL_PRIVS_REPORT	MGMT\$ESA_EXMPT_ACCESS_REPORT
MGMT\$ESA_ANY_DICT_REPORT	MGMT\$ESA_KEY_OBJECTS_REPORT
MGMT\$ESA_ANY_PRIV_REPORT	MGMT\$ESA_OH_OWNERSHIP_REPORT
MGMT\$ESA_AUDIT_SYSTEM_REPORT	MGMT\$ESA_OH_PERMISSION_REPORT
MGMT\$ESA_BECOME_USER_REPORT	MGMT\$ESA_POWER_PRIV_REPORT
MGMT\$ESA_CATALOG_REPORT	MGMT\$ESA_PUB_PRIV_REPORT
MGMT\$ESA_CONN_PRIV_REPORT	MGMT\$ESA_SYS_PUB_PKG_REPORT
MGMT\$ESA_CREATE_PRIV_REPORT	MGMT\$ESA_TABSP_OWNERS_REPORT
MGMT\$ESA_DBA_GROUP_REPORT	MGMT\$ESA_TRC_AUD_PERM_REPORT
MGMT\$ESA_DBA_ROLE_REPORT	MGMT\$ESA_WITH_ADMIN_REPORT
MGMT\$ESA_DIRECT_PRIV_REPORT	MGMT\$ESA_WITH_GRANT_REPORT

Client Configuration Views

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

Legacy: Change Management Pack for Oracle Database

Enterprise Manager Cloud Control no longer offers the Change Management Pack for Oracle Database. Enterprise Manager 10g and 11g Customers who purchased the Change Management Pack for Oracle Database can utilize the following Change Management features in Enterprise Manager Cloud Control.

Features

You are entitled to use the following features with a Change Management Pack for Oracle Database License:

Feature	Description
Schema Comparisons	Compare database objects in two databases or baselines in Enterprise Manager or SQL developer.
Schema and Data Comparisons	Automate the comparison of database schema and data across Databases or saved baselines.
Schema and Data Synchronization	Propagate database objects and schemas with or without data, and update database object definitions.
Copy Objects	Copy database objects with data, with a subset of data, or without data.
Real-time schema change detection	Track schema changes in real time to identify unwanted or unplanned changes.

Licensed Parameters

The `init.ora` parameter `ENABLE_DDL_LOGGING` is licensed as part of the Change Management Pack for Oracle Database when set to `TRUE`. 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, links, features, and functions that can be use with an existing Change Management Pack for Oracle Database License:

Licensed Page/Link	How to Access
Schema Comparison	<p>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 Change Management Pack for Oracle Database.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <p>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 Change Management Pack for Oracle Database.</p>
Schema and Data Comparisons	<p>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 Change Management Pack for Oracle Database.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <p>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 Change Management Pack for Oracle Database.</p>
Schema and Data Synchronization	<p>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 Change Management Pack for Oracle Database.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <p>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 Change Management Pack for Oracle Database.</p>
Copy Objects	<p>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 Change Management Pack for Oracle Database.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <p>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 Change Management Pack for Oracle Database.</p>

Licensed Page/Link	How to Access
Real-Time Schema Change Detection	<p>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 Change Management Pack for Oracle Database.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <p>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 Change Management Pack for Oracle Database.</p>

Licensed Reports

The following reports are part of the Change Management Pack for Oracle Database. All Oracle Database reports in each of these sections are licensed for 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 Change Management Pack for Oracle Database:

- **Database Change Management**

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

- **Database Change Management**

Additional Licensed Features

With the previous purchase of the Change 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.

Licensed Feature	Description
Self Update	From the Enterprise Manager home page, click the Setup menu, then Extensibility and Self Update . The downloading and applying any updates associated with Database Change Management are licensed as part of the Change Management Pack for Oracle Database.

Licensed Parameters

The `init.ora` parameter `ENABLE_DDL_LOGGING` is licensed as part of the Change Management Pack for Oracle Database when set to `TRUE`. The default is `FALSE`.

Legacy: Provisioning and Patch Automation Pack for Oracle Database

Enterprise Manager Cloud Control no longer offers the Provisioning and Patch Automation Pack for Oracle Database. Enterprise Manager 10g and 11g customers who purchased the Provisioning and Patch Automation Pack for Oracle Database can utilize the following Provisioning and Patch Automations features in Enterprise Manager Cloud Control.

Features

You are entitled to use the following features with a previously purchased Provisioning and Patch Automation Pack for Oracle Database license:

Feature	Description
Database Patching	End-to-end patch automation for Oracle Database and RAC.
Database Provisioning	Provision databases and Oracle Homes.
Database Upgrade	Upgrade existing Oracle Database.
Patch Recommendation	My Oracle Support Critical Patch Recommendations.
Patching Planning	My Oracle Support Patching Plans, patch Validation and Download.
Provisioning Procedures	Deploy operating system and Oracle Database and Real Application Clusters.
RAC Scale Out and Scale Back	Extend single instance databases to RAC.

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 of non-Oracle Database targets, you must purchase the appropriate management pack:

Licensed Page/Link	How to Access
Provisioning Procedures	<p>From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. All Procedures that Clone, Provision, Patch, and Upgrade a Database are licensed with the Provisioning and Patch Automation Pack for Oracle Database.</p> <p>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 Provisioning and Patch Automation Pack for Oracle Database.</p> <p>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 Provisioning and Patch Automation Pack for Oracle Database.</p>

Licensed Page/Link	How to Access
Database Upgrade	<p>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 Provisioning and Patch Automation Pack for Oracle Database.</p> <p>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 Provisioning and Patch Automation Pack for Oracle Database.</p> <p>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 Provisioning and Patch Automation Pack for Oracle Database.</p>
Database Provisioning and Cloning	<p>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 Provisioning and Patch Automation Pack for Oracle Database.</p> <p>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 Provisioning and Patch Automation Pack for Oracle Database.</p> <p>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 Provisioning and Patch Automation Pack for Oracle Database.</p>
RAC Scale Out and Scale Back	<p>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 Provisioning and Patch Automation Pack for Oracle Database.</p> <p>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 Provisioning and Patch Automation Pack for Oracle Database.</p> <p>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 Provisioning and Patch Automation Pack for Oracle Database.</p>
Database Patching	<p>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 Provisioning and Patch Automation Pack for Oracle Database.</p>

Licensed Page/Link	How to Access
Offline Patching	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 Provisioning and Patch Automation Pack for Oracle Database.

Licensed Reports

The following reports are part of the Provisioning and Patch Automation Pack for Oracle Database. The following reports and associated features apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management of non-Oracle Database targets, you must purchase the appropriate management pack.

All reports in each of these sections are licensed for 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 Provisioning and Patch Automation Pack for Oracle Database:

- **Deployment and Configuration**

The following reporting areas, reports and sub-reports under **BI Publisher Enterprise Reports** are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database:

- **Deployment and Configuration**

Additional Licensed Features

With the previous purchase of the Provisioning and Patch Automation 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.

Licensed Feature	Description
The oplan Utility	A tool that operates with Opatch to provide advanced capability for patching Oracle software. If oplan is used in any non-Oracle application, tool, or procedure, a Provisioning and Patch Automation Pack for Oracle Database must be purchased for all CPUs the tool, application or procedure is being applied to.

Licensed Feature	Description
Migrate to ASM	<p>From the Enterprise Manager home page, click on Targets, Databases, and then select a Database. From the database home page, click on Administration, Migrate to ASM. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <p>From the database home page, click on Administration, Migrate to ASM. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database.</p>
Self Update	<p>From the Enterprise Manager home page, click the Setup menu, then Extensibility and Self Update. The downloading and applying any updates associated with Patching, Provisioning, Cloning, and Upgrade are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database.</p>

Licensed Command Line Interface Verbs

The following Enterprise Manager Command Line Interface (CLI) verbs are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database:

confirm_instance	reschedule_instance
describe_instance	resume_instance
describe_procedure_input	save_procedure
get_executions	stop_instance
get_instance_data	submit_procedure
get_instance_status	suspend_instance
get_instances	update_and_retry_step
get_procedure_types	update_procedure_inpu
get_procedure_xml	create_database
get_procedures	clone_database
get_retry_argument	upgrade_database
ignore_instance	

Licensed Repository Views

The following repository views are licensed as part a previously purchased Provisioning and Patch Automation Pack for Oracle Database license:

Provisioning Views	Patch Recommendation
EM\$PROV_APPTYPES	MGMT\$PA_RECOM_METRIC_SOURCE
EM\$PROVAPP_METADATA_VERSION	
EM\$PROVAPP_METADATA	
EM\$PROVAPP_TAGS	
EM\$PROVAPP_TAG_PROPERTIES	

Oracle Home Patching Views

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

Patching Views

MGMT\$ARU_PRODUCTS	MGMT\$PA_FINAL_PATCH_LIST
MGMT\$ARU_PLATFORMS	mgmt\$pa_target_mapping
MGMT\$ARU_RELEASES	MGMT\$RECOM_METRIC_SOURCE
MGMT\$ARU_TARGETS	gc_pc_targets
MGMT\$ARU_LANGUAGES	GC_PC_EXECUTION_INSTANCES
MGMT\$ARU_PRODUCT_RELEASE_MAP	MGMT\$PA_AFFTED_TARGETS
MGMT\$ARU_FAMILY_PRODUCT_MAP	MGMT\$PA_AFFTED_HOST_OH
MGMT\$ARU_PATCH_RECOMMENDATIONS	MGMT\$PA_AFFTED_HOST_GUID_OH
MGMT\$PR_APPL_PATCHES_TO_OH_TGT	MGMT\$PR_APPL_PATCHES_TO_OH
MGMT\$PR_HOMES_AFFECTED_COUNT	MGMT\$PR_HOME_INFO
MGMT\$PA_TARGET_MAPPING	MGMT\$APPLIED_PATCHES
GC_PC_PLAN_ANALYSIS_RS	MGMT\$APPLIED_PATCHSETS
gc_pc_plan_remedy	GC\$EM_PC_PLANS
gc_pc_plan_remedy_details	GC\$EM_PC_PLAN_PATCHES
gc_pc_plan_users	GC\$EM_PC_PLAN_TARGETS

Oracle Middleware Enterprise Management

Enterprise Manager offers the following management packs for Oracle Middleware Enterprise Management:

- [WebLogic Server Management Pack Enterprise Edition](#)
- [SOA Management Pack Enterprise Edition](#)
- [Management Pack for WebCenter](#)
- [Management Pack for Oracle Coherence](#)
- [Oracle Application Replay Pack](#)
- [Business Intelligence Management Pack](#)

The following sections in this chapter describe the licensed features and links for these packs.

Note: Some information displayed in Oracle Enterprise Manager Cloud Control 12c for the following licensable entities is missing, inaccurate, and/or incomplete:

- WebLogic Server Management Pack Enterprise Edition
- SOA Management Pack Enterprise Edition
- Management Pack for WebCenter
- Management Pack for Oracle Coherence

Accurate and complete information on these licensable products is expected to be available in a future release of Oracle Enterprise Manager Cloud Control 12c. Meanwhile, refer to this document for accurate and complete information.

WebLogic Server Management Pack Enterprise Edition

The WebLogic Server Management Pack Enterprise Edition offers a solution for managing Oracle Fusion Middleware, Oracle WebLogic Server, and Oracle Application Server. This pack provides capabilities for application performance management, business transaction management, service level management, coherence management as well as lifecycle management for Oracle Application Server, Oracle Fusion Middleware, and/or Oracle WebLogic Server software. This pack provides full visibility across both software and hardware components for an Exalogic Elastic Cloud engineered system.

Note: All Oracle Enterprise Manager 11g Fusion Middleware Control and Oracle Enterprise Manager 10g Application Server Control functionality is included with each edition of Oracle Fusion Middleware. The links and areas that require the WebLogic Server Management Pack Enterprise Edition are outside of Fusion Middleware Control and Application Server Control.

Features

The features available with this pack are as follows:

- Application performance management features are available in Oracle Enterprise Manager Cloud Control 12c.
- Service level management features are available in Oracle Enterprise Manager Cloud Control 12c.
- Coherence management features are available in Oracle Enterprise Manager Cloud Control 12c.
- Business Transaction Management features are available in Oracle Enterprise Manager Business Transaction Management 12c.
- Lifecycle management features (spanning configuration management, compliance management, provisioning and patching) are available in Oracle Enterprise Manager Cloud Control 12c.

The following functional areas provide feature overviews for each of the multiple products associated with WebLogic Server Management Pack Enterprise Edition:

-
- | | |
|--|---|
| <ul style="list-style-type: none"> ■ Application Performance Management ■ Coherence Management | <ul style="list-style-type: none"> ■ Business Transaction Management ■ Lifecycle Management |
|--|---|
-

Application Performance Management

The WebLogic Server Management Pack Enterprise Edition delivers comprehensive management and modeling capabilities for pure Java EE and web service environments, as well as business transaction monitoring for applications running in Oracle WebLogic Server. By combining contextual drill-down modeling capabilities with extensive metrics that can span containers horizontally as well as the entire vertical stack for Java EE, this pack significantly reduces the cost and complexity of managing Java EE-based environments in development, testing, staging, and production environments.

Unless otherwise stated, the following features apply to both Oracle WebLogic Server and Oracle Application Server environments.

Feature	Description
"Always on" low overhead monitoring, notifications, and dashboards	Diagnose past problems, receive early warnings of outages, see a single view of the status of all applications.
Application Dependency and Performance	Automatic modeling of application infrastructure with dynamic and static dependency analysis to identify the root cause of problems in a multi-tier Java EE application or web services.

Feature	Description
Blackouts	Suspend monitoring on targets to support scheduled maintenance periods.
Business Application Management	Create and monitor business application targets to provide an intuitive representation of the relationship between your applications and business transactions and the underlying IT infrastructure.
Business transaction monitoring <i>(Applies only to Oracle WebLogic Server)</i>	Provide transaction request visibility across multi-tier architecture for WebLogic applications, including individual transaction tracing and aggregated metrics.
Composite Application Management	Provide full visibility across all members and tiers of a composite application.
Contextual visibility into Java EE and web service metrics	Provide drill-down contextual visibility into Java EE and web service metrics.
Cross-tier trace with Oracle Database	View the impact of database problems on all associated applications and JVMs, and isolate problems between Java and the database
Diagnostic Snapshot	Preserves snapshots of both JVM monitoring and diagnostics data in correlation with the WebLogic Server log files.
Differential heap analysis	Use memory leak analysis in production, and simplify memory growth and leak analysis.
Exalogic Elastic Cloud Management	Provide full visibility across both software and hardware components for an Exalogic Elastic Cloud engineered system
Historical performance monitoring	Track availability and performance data over time.
Interactive JVM transaction trace	Provide JVM thread tracing. View the response time breakdowns in each layer (servlet, JSP, EJB, JDBC, and SQL) of a JVM container.
JVM Diagnostics Agent hot deployment	Deploy JVM Diagnostics Agent without WebLogic Server restarts or configuration changes.
Log Viewer	Access Oracle Fusion Middleware log files quickly and easily - no matter where they are stored on the file system. Search and correlate log messages across all Oracle Fusion Middleware components' logs based on properties such as time, severity or Execution Context ID (ECID).
Management Connectors	Helpdesk (ticketing) connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems.
Metric and Alert/Event History	View metric and alert/event history and its associated details.
Metric Extensions	Create new metrics to monitor conditions specific to customer environments.
Metrics visibility for any layer	Generate customized dashboards and views automatically.
Middleware Diagnostics Advisor	Provide detailed advice and recommendations based on performance and configuration data for the entire middleware and database stack.
Monitoring Templates and Template Collections	Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group.

Feature	Description
Notifications	Define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules.
Real-time visibility into a JVM and application state without instrumentation overhead <i>(Applies to applications deployed to both Oracle Application Server and WebLogic Server)</i>	Eliminate need to reproduce problems in a test environment.
Request performance	Provide historical views that show the response times for end-user requests from the context of WebLogic Server as well as the underlying JVM. Response time breakdowns are available in each layer (servlet, JSP, EJB, JDBC, and SQL) of an OC4J container.
Service-level objectives	Provide service-level objectives (SLOs) at any point within the architecture for indicators and alerts.
Trace in-flight transactions	View request performance problems in real time. Analyze time spent in each resource bottleneck and Java method.
WebLogic Domain/JVM pool monitoring	Monitor all JVMs of an application together with uniform monitoring settings.
Hardware-software topology views	Provide integrated hardware and software schematics.
Exalogic hardware targets monitoring (Compute, ZFA appliance, ILOM, InfiniBand Switches and Fabric)	Monitor Exalogic vServer guest virtual machines.
Oracle Traffic Director (OTD) monitoring	Provide trusted partition/vCPU licensing report.
Exalogic health checks	Provide support for virtual and non-virtual Exalogic configurations

Note: Within the WebLogic Server Management Pack Enterprise Edition and the Business Transaction Management (BTM) product which is installed separately from Enterprise Manager Cloud Control, licensing is restricted to Java EE and web service components with respect to the Application Dependency and Performance pages in Enterprise Manager Cloud Control and does not include SOA, BPEL, WebCenter, Portal, OSB, ESB, AIA, or Pageflow components.

The following licenses enable Business Application Management functionality:

- [Application Management Suite for Fusion Applications](#)
- [Application Management Suite for Oracle E-Business Suite](#)
- [Application Management Suite for Siebel](#)
- [Application Management Suite for JD Edwards EnterpriseOne](#)
- [WebLogic Server Management Pack Enterprise Edition](#)
- [SOA Management Pack Enterprise Edition](#)

- [Oracle Real User Experience Insight](#)
- [Management Pack for Non-Oracle Middleware](#)

Coherence Management

The Coherence Management features within the WebLogic Server Management Pack Enterprise Edition provide comprehensive monitoring and management capabilities for Coherence. The features provide complete cluster visibility by supplying detailed metrics of various cluster artifacts and their interdependencies. You can monitor more than one Coherence cluster from a single console.

Coherence Management within the WebLogic Server Management Pack Enterprise Edition includes the following features:

Feature	Description
Automate deployment	Automate the deployment and setup of the Coherence cluster with multiple nodes.
Complete cluster visibility	Provide detailed metrics for all Coherence components.
Configuration management	Change run-time configuration parameters of multiple nodes, caches, and services from the central user interface console.
Monitor multiple clusters	Monitor multiple clusters from a single console.
Start and stop nodes	Stop existing nodes and start new ones in a Coherence cluster.
Start and stop the cluster	Start and stop the entire Coherence cluster.

Business Transaction Management

The WebLogic Server Management Pack Enterprise Edition includes Business Transaction Management (BTM) features only for Java EE and web service components running on WebLogic Server or Oracle Application Server, as shown below.

Note: Business Transaction Management is separately installed from Enterprise Manager Cloud Control 12c.

Feature	Description
Contextual visibility	Provide drill-down contextual visibility into Java EE.
Exception management	Provide transaction alerts and searches to locate exceptions and errors in transactions that span multiple application components.
Transaction discovery	Discover, record, and correlate transactions as they flow across components that may span multiple WebLogic and/or Oracle Application Server instances.
Transaction-level agreements	Provide transaction-level objectives (TLOs) that span multiple interacting components.

BTM technologies licensed as part of the WebLogic Server category are as follows:

■ JAX-WS	■ JMS
■ JAX-RPC	■ Java
■ JDBC	■ JSP/Servlet
■ EJB	■ Web Application

For BTM licensed links, see "[Licensed Links Applicable to Business Transaction Management](#)".

Business Transaction Management Restricted-use Licensing

Oracle includes a restricted-use license of Oracle Service Bus (and its subcomponents) for the express purpose of monitoring endpoints for Enterprise Manager Business Transaction Management, covering creation of Proxy and Business Service in pass-through mode only. Oracle Service Bus may be configured with the Business Transaction Management observer agent in single instance and an additional instance of Oracle Service Bus may be configured for Proxy failover purposes.

Lifecycle Management

The lifecycle management features of WebLogic Server Management Pack Enterprise Edition help administrators automate the processes required to manage the Oracle WebLogic Server lifecycle. It eliminates manual and time-consuming tasks related to provisioning, patching, configuration management, and compliance management.

Unless otherwise stated, the following features apply to both Oracle WebLogic Server and Oracle Application Server environments:

Feature	Description
Compliance	Provide compliance frameworks, standards, and extensibility to meet industry and regulatory compliance requirements. This feature includes integration of former BEA Guardian Signatures into the Enterprise Manager Cloud Control console as WebLogic Signature Rules.
Configuration Collection Extensibility	Create custom configuration collections and extend current collections.
Configuration Compare	Compare configurations, one-to-one, one-to-many.
Configuration History	Report and notify on configuration or relations changes during a specific time frame.
Configuration Instance Browser	View configuration items and associations associated with a target.
Configuration Save	Save configurations for reference, baselines, or gold standards.
Configuration Search	Search for configuration items on a specific target or across relationships.
Configuration Topology	View topology for a specified target and its dependencies along with other targets that are dependent on it.
Disaster Recovery via Site Guard	Automate complete site failover of Oracle Fusion Middleware and Oracle Database and extend to include other data center components.

Note:

Usage of Site Guard requires licenses for both WebLogic Server Management Pack Enterprise Edition as well as Database Lifecycle Management Pack.

Feature	Description
Notifications	Provide notification of configuration changes or differences.
Patching	Provide end-to-end patch automation for Oracle WebLogic Server and Oracle Application Server.
Provisioning Deployment Procedures	<ul style="list-style-type: none"> ▪ Clone WebLogic Domain and/or Middleware Home from reference installation or from software library. ▪ Clone Oracle Application Server. ▪ Scale up or out WebLogic Domain. ▪ Deploy/redeploy/undeploy Java EE applications. Store application archive files in a software library.
Patch Recommendations <i>(Only applicable to Oracle Application Server)</i>	Provide My Oracle Support security patch update recommendations.
Real-time configuration change detection	Provide real-time configuration change detection and automation of compliance frameworks along with automated observation authorization using a Change Management Connector.
Routing Topology	Understand relationships and health of a Fusion Middleware Farm/WebLogic Domain and their related targets.
Self Update	Download and apply updates associated with Patching, Provisioning, and Compliance of Oracle WebLogic Server and Oracle Application Server targets.
Synchronization of WebLogic Server Configuration Files	Synchronize WebLogic Server-related configuration files (for example, <code>config.xml</code>) from Enterprise Manager Cloud Control if differences are detected between WebLogic Domains or WebLogic Servers during a configuration comparison operation. This feature is useful to make the configurations the same.

Licensed Links

To use any of the features described above, you must purchase licenses to the WebLogic Server Management Pack Enterprise Edition. The following sections itemize the Enterprise Manager links that require licensing of the WebLogic Server Management Pack Enterprise Edition, and should not be accessible if the WebLogic Server Management Pack Enterprise Edition has been disabled. In general, the links identified below apply to the following target types:

Oracle Fusion Middleware Targets

■ Oracle Fusion Middleware Farm	■ Oracle Forms Services
■ Oracle WebLogic Domain	■ Oracle Portal
■ Oracle WebLogic Cluster	■ Oracle Reports Application
■ Oracle WebLogic Server	■ XMPP Driver
■ SMPP Driver	■ Oracle Reports Bridge
■ Clustered Application Deployment	■ Oracle Reports Server
■ Application Deployment	■ Oracle Reports Tools
■ Oracle HTTP Server	■ Oracle User Messaging Service
■ Oracle Web Cache	■ User Messaging Email Driver
■ Oracle Coherence	■ Java Virtual Machine
■ VoiceXML Driver	■ Java Virtual Machine Pool

Oracle Application Server Targets

■ Oracle Application Server Farm	■ Oracle Forms Services
■ Oracle Application Server Cluster	■ Oracle Reports
■ DCM-Managed Oracle Application Server Cluster	■ Oracle Portal
■ OC4J	■ BC4J
■ Oracle HTTP Server	■ Oracle Workflow
■ Oracle Web Cache	■ Oracle Application Server Wireless

The WebLogic Server Management Pack Enterprise Edition does not include features for Business Process Execution Language (BPEL), Oracle Service Bus (OSB), Oracle SOA Infra, and Oracle SOA Composite. For these Oracle Fusion Middleware components, the SOA Management Pack Enterprise Edition must be licensed.

Note: While Enterprise Manager functionality to manage Oracle WebLogic Server is rather consistent across versions of Oracle WebLogic Server, the specific licensable links under the WebLogic Server Management Pack Enterprise Edition and the navigation to those links may be different across different versions of Oracle WebLogic Server. Consequently, some of the following sections distinguish between licensed links for different WebLogic Server versions.

Licensed Links Outside of Target-Specific Pages

Licensed Page/Link	How to Access
Client System Analyzer	From the Enterprise Manager home page, click the Enterprise menu, then Configuration . The Client System Analyzer and Client Configurations items are licensable as part of the WebLogic Server Management Pack Enterprise Edition.

Licensed Page/Link	How to Access
Compliance	From the Enterprise Manager home page, click the Enterprise menu and then Compliance . All features, functions, links, buttons, and drill-downs associated with the Library, Real-time Observations, and Results pages are licensed as part of the WebLogic Server Management Pack Enterprise Edition.
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 WebLogic Server Management Pack Enterprise Edition.
Configuration Compare	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 WebLogic Server Management Pack Enterprise Edition.
Configuration History	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 WebLogic Server Management Pack Enterprise Edition.
Configuration Instance Browser	From the Enterprise Manager home page, click Targets , then Middleware . Select a Fusion Middleware related target identified above. From the target's menu, click the Configuration submenu. All features, functions, links, buttons, and drill-downs from this submenu, excluding Topology, are licensed as part of the WebLogic Server Management Pack Enterprise Edition.
Configuration Save	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 WebLogic Server Management Pack Enterprise Edition.
Configuration Search	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 WebLogic Server Management Pack Enterprise Edition.
Configuration Topology	From the Enterprise Manager home page, click the Enterprise menu, then Configuration and Topology . In the View drop-down menu, Used By is licensed as part of the WebLogic Server Management Pack Enterprise Edition. From the Enterprise Manager home page, click the Enterprise menu, then Configuration and Topology, Customization . All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the WebLogic Server Management Pack Enterprise Edition.

Licensed Page/Link	How to Access
Middleware Provisioning	<p>From the Enterprise Manager home page, click the Enterprise menu, then Provisioning and Patching, and finally Procedure Library. The following predefined procedures are licensed with the WebLogic Server Management Pack Enterprise Edition:</p> <ul style="list-style-type: none"> ■ Provision Middleware ■ Scale up/Scale Out Middleware ■ Application Server Deployment 10.1.3 ■ Application Server Deployment 10.1.3.x SOA ■ Deploy/Undeploy Java EE Applications ■ Coherence Node Provisioning <p>From the Enterprise Manager home page, click the Enterprise menu, then Provisioning and Patching, and finally Middleware Provisioning. All features, functions, links, buttons, and drill-downs on the Middleware Provisioning page are licensed as part of the WebLogic Server Management Pack Enterprise Edition - with the exception of SOA Artifacts Provisioning, Deploy SOA Composite, BPEL Process Provisioning, and Oracle Service Bus Resource Provisioning deployment procedures (these are licensable via the SOA Management Pack Enterprise Edition).</p> <p>From the WebLogic Domain target home page, click the WebLogic Domain menu, then Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the WebLogic Server Management Pack Enterprise Edition - with the exception of SOA Artifacts Provisioning and Deploy SOA Composite (these are licensable via the SOA Management Pack Enterprise Edition).</p>
Offline Patching	<p>From the Enterprise Manager home page, click Setup, then Provisioning and Patching, and finally Offline Patching. From the Online and Offline Setting tab, the Connection, Offline setting is licensed with the WebLogic Server Management Pack Enterprise Edition.</p>
Real-time Configuration Change Detection	<p>From the Enterprise Manager home page, click the Enterprise menu, then Compliance. All features, functions, links, buttons, and drill-downs associated Library, Results and Real-Time Observations pages are licensed as part of the WebLogic Server Management Pack Enterprise Edition.</p>
Self Update	<p>From the Enterprise Manager home page, click Setup, then Extensibility, and finally Self Update. The downloading and applying any updates associated with Patching, Provisioning, and Compliance of middleware targets identified above are licensed as part of the WebLogic Server Management Pack Enterprise Edition.</p>
WebLogic Server Patching	<p>From the Enterprise Manager home page, click the Enterprise menu, then Provisioning and Patching, and finally Procedure Library. All procedures that patch WebLogic Server are licensed with the WebLogic Server Management Pack Enterprise Edition.</p>

Licensed Links Applicable to WebLogic Server Versions 9, 10, and 12

The following list of links and navigation to them correspond with managing Oracle WebLogic Server versions 9, 10, and 12 in Oracle Enterprise Manager Cloud Control

12c, and are licensed as part of the WebLogic Server Management Pack Enterprise Edition.

Links/Menu Items Accessible from Application Deployment Page	How to Access
Application Deployment page	From the Enterprise Manager home page, click the Targets menu, then Middleware . Drill down to a WebLogic Domain home page, then click on an Application Deployment target. All links and menu items on this page are licensed.
Clustered Application Deployment page	From the Enterprise Manager home page, click the Targets menu, then Middleware . Drill down to a WebLogic Domain home page, then click on a Clustered Application Deployment target. All links and menu items on this page are licensed.
Middleware-related target pages	From the Enterprise Manager home page, click the Targets menu, then Middleware . Click on links in the Name column to be taken to a target home page. (Note: target home pages can be accessed via other paths as well.) Links and menu items on target home pages are licensed.

Note:

While home pages for Middleware-related targets are not licensed, the links and menu items on the pages are licensed.

Licensed Links Applicable to WebLogic Server Version 7 and 8

The following list of links and navigation to them correspond with managing Oracle WebLogic Server version 7 and 8 in Oracle Enterprise Manager Cloud Control 12c and are licensed as part of the WebLogic Server Management Pack Enterprise Edition.

Licensed Page/Link	How to Access
Oracle WebLogic Server Domain page	From the Enterprise Summary page, click the Targets menu, then Middleware . Click the Type column to sort the target types. Select a target from the Name column with the Oracle WebLogic Server Domain type. On this page, All links, menu items, tabs, and sections on this page are licensed.
Oracle WebLogic Server Cluster page	From the Enterprise Summary page, click the Targets menu, then Middleware . Click the Type column to sort the target types. Select a target from the Name column with the Oracle WebLogic Server Cluster type. On this page, All links, menu items, tabs, and sections on this page are licensed.
Oracle WebLogic Managed Server page	From the Enterprise Summary page, click the Targets menu, then Middleware . Click the Type column to sort the target types. Select a target from the Name column with the Oracle WebLogic Managed Server type. On this page, All links, menu items, tabs, and sections on this page are licensed.

Licensed Links Applicable to Service Level Management

See "[Enterprise Manager Cloud Control Service Level Management](#)" in [Chapter 7](#), "[End User Monitoring](#)".

Licensed Links Applicable to Coherence Management

See "Licensed Links" of the "Management Pack for Oracle Coherence" section for the Coherence Management links.

Licensed Links Applicable to Business Transaction Management

Licensed Page/Link	How to Access
All pages, links, menus, etc., begin from the Oracle Business Transaction Management Administrative console:	
Administration page	Select the Administration menu.
Alerts page	Select the Alerts menu.
Dashboards page	Select the Dashboards menu.
Maps page	Select the Maps menu.
MyView page	Select the MyView menu.
Policies page	Select the Policies menu.
Usage page	Select the Usage menu.
All navigation tree nodes as well as all tabbed pane links and data available on these pages are licensed.	

Licensed Links Applicable to Oracle Application Server 10g

Licensed Page/Link	How to Access
Patch link	From the Oracle Application Server home page, this link in the Related Links section is licensed.
Deployments section links	From the Oracle Application Server Administration page, all links in the Deployment section are licensed
Oracle Application Server Target Types	
Metrics link	From the Middleware sub-tab, click an Oracle Application Server Cluster link. On the Oracle Application Server Cluster page, this link is licensed.
<ul style="list-style-type: none"> ■ Availability in the General section ■ Alert History and notifications functionality in the Related Links section ■ All Metrics and Blackouts in the Related Links section 	<p>From the Middleware sub-tab, click an Oracle Middleware link. On the Oracle Application Server page, these links are licensed.</p> <p>From the Application Server page:</p> <ul style="list-style-type: none"> ■ Click an OC4J link. On the OC4J page, these links are licensed. ■ Click an Oracle HTTP Server link. On the Oracle HTTP Server page, these links are licensed. ■ Click a Web Cache link. On the Web Cache page, these links are licensed.

Licensed Page/Link	How to Access
Performance Links section links	<p>From the Oracle Application Server page, click the Performance tab. On the Application Server Performance page, all links in the Performance Links section are licensed.</p> <p>From the OC4J page, click the Performance tab. On the OC4J Performance page, all links in the Performance Links section are licensed.</p> <p>From the Oracle HTTP Server page, click the Server Performance tab. On the HTTP Server Performance page, all links in the Performance Links section are licensed.</p> <p>From the Web Cache page, click the Performance tab. On the Web Cache Performance page, all links in the Performance Links section are licensed.</p>
Virtual Host Performance tab	From the HTTP Server Home page, click the Virtual Host Performance tab. This tab is a licensed.
Application Server Instance Page	
Oracle home link	From the Middleware page, click a link for an Oracle Application Server . On the Oracle Application Server Instance page, this link in the General section is licensed.
Policies link	From the Middleware page, click a link for an Oracle Application Server . On the Oracle Application Server Instance page, click the Metric and Policy Settings link in the Related Links section. On the Metric and Policy Settings page, this link is licensed.
<ul style="list-style-type: none"> ■ Alerts and Policy Violations links ■ Disabled Policies links 	From the Middleware page, click a link for an Oracle Application Server . On the Oracle Application Server Instance page, click the Reports link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed.
<ul style="list-style-type: none"> ■ Configuration section ■ Configuration Searches section 	From the Middleware page, click a link for an Oracle Application Server . On the Oracle Application Server Instance page, click the Administration sub-tab. All links in these sections are licensed.
Policy Violations link	From the Middleware page, click a link for an Oracle Application Server . On the Oracle Application Server Instance page, click the Topology sub-tab. On the Topology page, select a target on the page. This link in the Selection Details section is licensed.
Oracle HTTP Server Pages	
Oracle home link	From the Middleware page, click a link for an Oracle HTTP Server . On the Oracle HTTP Server page, this link in the General section is licensed.
Policy Violations links	From the Middleware page, click a link for an Oracle HTTP Server . On the Oracle HTTP Server Instance page, these links in the Policy Violations section are licensed.
Security links	From the Middleware page, click a link for an Oracle HTTP Server . On the Oracle HTTP Server Instance page, all links in the Security section are licensed.
Policies link	From the Middleware page, click a link for an Oracle HTTP Server . On the Oracle HTTP Server Instance page, click the Metric and Policy Settings link in the Related Links section. On the Metric and Policy Settings page, this link is licensed.

Licensed Page/Link	How to Access
<ul style="list-style-type: none"> ■ Alerts and Policy Violations links ■ Disabled Policies links 	From the Middleware page, click a link for an Oracle HTTP Server . On the Oracle HTTP Server Instance page, click the Reports link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed.
<ul style="list-style-type: none"> ■ Configuration section ■ Configuration Searches section 	From the Middleware page, click a link for an Oracle HTTP Server . On the Oracle HTTP Server Instance page, click the Administration sub-tab. All links in these sections are licensed.
Web Cache Target	
Oracle home link	From the Middleware page, click a link for an Oracle Web Cache . On the Oracle Web Cache page, this link in the General section is licensed.
Policy Violations links	From the Middleware page, click a link for an Oracle Web Cache . On the Oracle Web Cache page, these links in the Policy Violations section are licensed.
Security links	From the Middleware page, click a link for an Oracle Web Cache . On the Oracle Web Cache page, all links in the Security section are licensed.
Policies link	From the Middleware page, click a link for an Oracle Web Cache . On the Oracle Web Cache page, click the Metric and Policy Settings link in the Related Links section. On the Metric and Policy Settings page, this link is licensed.
<ul style="list-style-type: none"> ■ Alerts and Policy Violations links ■ Disabled Policies links ■ Configuration section ■ Configuration Searches section 	From the Middleware page, click a link for an Oracle Web Cache . On the Oracle Web Cache page, click the Reports link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed. From the Middleware page, click a link for an Oracle Web Cache . On the Oracle Web Cache page, click the Administration sub-tab. All links in these sections are licensed.
OC4J Target	
Oracle home link	From the Middleware page, click a link for an OC4J . On the OC4J page, this link in the General section is licensed.
Policies link	From the Middleware page, click a link for an OC4J . On the OC4J page, click the Metric and Policy Settings link in the Related Links section. On the Metric and Policy Settings page, this link is licensed.
<ul style="list-style-type: none"> ■ Alerts and Policy Violations links ■ Disabled Policies links 	From the Middleware page, click a link for an OC4J . On the OC4J page, click the Reports link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed.
<ul style="list-style-type: none"> ■ Configuration section ■ Configuration Searches section 	From the Middleware page, click a link for an OC4J . On the OC4J page, click the Administration sub-tab. All links in these sections are licensed.
Policy Violations links	From the Middleware page, click a link for an OC4J . On the OC4J page, these links in the Policy Violations section are licensed.
Security links	From the Middleware page, click a link for an OC4J . On the OC4J page, all links in the Security section are licensed.
Other Oracle Application Server 10g Components	

Licensed Page/Link	How to Access
<p>From the Middleware sub-tab, access is available to other Oracle Application Server 10g components (such as Oracle Forms Services). There are licensable links on these additional component home pages under the WebLogic Server Management Pack Enterprise Edition. These licensable links could include the following:</p>	
Oracle home link	In the General section, if a link to Oracle home exists, the link is licensed.
Policies link	<p>In the Related Links section, click the Metric and Policy Settings link. On the Metric and Policy Settings page, this link is licensed</p> <p>On the Oracle Application Server Integration B2B page, click the Metric and Policy Settings link in the Related Links section. On the Metric and Policy Settings page, this link is licensed.</p> <p>On the Oracle Workflow page, click the Metric and Policy Settings link in the Related Links section. On the Metric and Policy Settings page, this link is licensed.</p> <p>On the Oracle CMSDK page, click the Metric and Policy Settings link in the Related Links section. On the Metric and Policy Settings page, this link is licensed.</p>
<ul style="list-style-type: none"> ■ Alerts and Policy Violations links ■ Disabled Policies links 	<p>In the Related Links section, click the Reports link. On the Report Definitions page, these links in the Monitoring section are licensed.</p> <p>On the Oracle Application Server Integration B2B page, click the Reports link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed.</p> <p>On the Oracle Workflow page, click the Reports link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed.</p> <p>On the Oracle CMSDK page, click the Reports link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed.</p>
Oracle Application Server Farm Pages	
Policy Violation links	<p>From the Middleware page, select a farm. On the Oracle Application Server Farm page, these links in the Policy Violation section are licensed.</p> <p>From the Middleware page, select a farm. On the Oracle Application Server Farm page, click the Topology sub-tab. The Policy Violations link in the Selection Details section is licensed.</p>
Changes links	From the Middleware page, select a farm . On the Oracle Application Server Farm page, these links in the Configuration Changes section are licensed.
Security Policy Violations links	From the Middleware page, select a farm . On the Oracle Application Server Farm page, these links in the Security Policy Violations section are licensed.
<ul style="list-style-type: none"> ■ Alerts and Policy Violations links ■ Disabled Policies links 	From the Middleware page, select a farm . On the Oracle Application Server Farm page, click the Reports link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed.
<ul style="list-style-type: none"> ■ Deployments section ■ Configuration Searches section 	From the Middleware page, select a farm . On the Oracle Application Server Farm page, click the Administration sub-tab. All links in these sections are licensed.

Licensed Page/Link	How to Access
Policy Violations section	From the Middleware page, select a farm . On the Oracle Application Server Farm page, click the Members sub-tab. All links in this section are licensed.
Policy Violations column	From the Middleware page, select a farm . On the Oracle Application Server Farm page, Metrics page, Administration page, and Members page, click the Launch Dashboard button. All links in this column are licensed.
Oracle Application Server Cluster Pages	
Policy Violation links	From the Middleware page, select a cluster . On the Oracle Application Server Cluster page, these links in the Policy Violation section are licensed. From the Middleware page, select a Cluster . On the Oracle Application Server Cluster page, click the Topology sub-tab, then select a target on the page. This link in the Selection Details section is licensed.
Changes links	From the Middleware page, select a Cluster . On the Oracle Application Server Cluster page, these links in the Configuration Changes section are licensed.
Security Policy Violations links	From the Middleware page, select a Cluster . On the Oracle Application Server Cluster page, these links in the Security Policy Violations section are licensed.
<ul style="list-style-type: none"> ■ Alerts and Policy Violations links ■ Disabled Policies links 	From the Middleware page, select a Cluster . On the Oracle Application Server Cluster page, click the Reports link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed.
<ul style="list-style-type: none"> ■ Deployments section ■ Configuration Searches section 	From the Middleware page, select a Cluster . On the Oracle Application Server Cluster page, click the Administration sub-tab. All links in these sections are licensed.
Policy Violations section	From the Middleware page, select a Cluster . On the Oracle Application Server Cluster page, click the Members sub-tab. All links in this section are licensed.
Policy Violations column	From the Middleware page, select a Cluster . On the Oracle Application Server Cluster page, J2EE Applications page, Metrics page, Administration page, and Members page, click the Launch Dashboard button. All links in this column are licensed.
HTTP Server HA Group	
You can access HTTP Server HA Group pages from the All Targets sub-tab. To display the available HTTP Server HA Group, select HTTP Server HA Group from the Search list, then click Go . Select a HTTP Server HA Group from the search results to display its home page.	
Configuration Changes links	On the HTTP Server HA Group Home page, these links in the Configuration Changes section are licensed.
Policy Violation links	On the HTTP Server HA Group Home page, these links in the Policy Violation section are licensed.
Security Policy Violation links	On the HTTP Server HA Group Home page, these links in the Security Policy Violation section are licensed.
Critical Patch Advisories for Oracle Homes links	On the HTTP Server HA Group Home page, these links in the Critical Patch Advisories section are licensed.
<ul style="list-style-type: none"> ■ Alerts and Policy Violations links ■ Disabled Policies links 	On the HTTP Server HA Group Home page, click the Reports link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed.

Licensed Page/Link	How to Access
<ul style="list-style-type: none"> ■ Deployments section ■ Configuration section 	On the HTTP Server HA Group Home page, click the Administration sub-tab. All links in these sections are licensed.
Policy Violation section	On the HTTP Server HA Group Home page, click the Members sub-tab. This section is licensed.
Policy Violations column	On the HTTP Server HA Group Home page, Charts page, Administration page, and Members page, click the Launch Dashboard button. All links in this column are licensed.
OC4J HA Group	
You can access OC4J HA Group pages from the All Targets sub-tab. To display the available OC4J HA Group, select OC4J HA Group from the Search list, then click Go . Select an OC4J HA Group from the search results to display its home page.	
Configuration Changes links	On the OC4J HA Group page, these links in the Configuration Changes section are licensed.
Policy Violation links	On the OC4J HA Group page, these links in the Policy Violation section are licensed.
Security Policy Violation links	On the OC4J HA Group page, these links in the Security Policy Violation section are licensed.
Critical Patch Advisories for Oracle Homes links	On the OC4J HA Group page, these links in the Critical Patch Advisories section are licensed.
<ul style="list-style-type: none"> ■ Alerts and Policy Violations links ■ Disabled Policies links 	On the OC4J HA Group page, click the Reports link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed.
<ul style="list-style-type: none"> ■ Deployments section ■ Configuration section 	On the OC4J HA Group page, click the Administration sub-tab. All links in these sections are licensed.
Policy Violation section	On the OC4J HA Group page, click the Members sub-tab. This section is licensed.
Policy Violations column	On the OC4J HA Group page, Administration page, Charts page, and Members page, click the Launch Dashboard button. All links in this column are licensed.

Licensed Repository Views

The following repository views are part of the WebLogic Server Management Pack Enterprise Edition:

Blackout Views	Inventory Views
MGMT\$BLACKOUT_HISTORY	MGMT\$METRIC_CATEGORIES
MGMT\$BLACKOUTS	MGMT\$GROUP_FLAT_MEMBERSHIPS

Monitoring Views	Compliance Views
MGMT\$ALERT_ANNOTATIONS	MGMT\$COMPLIANCE_STANDARD_RULE
MGMT\$ALERT_NOTIF_LOG	MGMT\$COMPLIANCE_STANDARD
MGMT\$TARGET_METRIC_COLLECTIONS	MGMT\$COMPLIANCE_STANDARD_GROUP
MGMT\$TARGET_METRIC_SETTINGS	MGMT\$CS_EVAL_SUMMARY
MGMT\$AVAILABILITY_CURRENT	MGMT\$COMPOSITE_CS_EVAL_SUMMARY
MGMT\$AVAILABILITY_HISTORY	MGMT\$CS_RULE_EVAL_SUMMARY
MGMT\$ALERT_CURRENT	MGMT\$CS_GROUP_EVAL_SUMMARY
MGMT\$ALERT_HISTORY	MGMT\$CS_TARGET_ASSOC
MGMT\$METRIC_DETAILS	MGMT\$CCC_ALL_OBSERVATIONS
MGMT\$METRIC_CURRENT	MGMT\$CCC_ALL_OBS_BUNDLES
MGMT\$METRIC_HOURLY	MGMT\$CCC_DIAG_ANALYTICS
MGMT\$METRIC_DAILY	MGMT\$CCC_DIAG_QUEUEBACKLOG

Configuration Views	
MGMT\$J2EE_APPLICATION	MGMT\$WEBLOGIC_JMSQUEUE
MGMT\$J2EEAPP_EJBCOMPONENT	MGMT\$WEBLOGIC_JMSTOPIC
MGMT\$J2EEAPP_JRFWS	MGMT\$WEBLOGIC_JOLTCONNPOOL
MGMT\$J2EEAPP_JRFWSOPER	MGMT\$WEBLOGIC_MACHINE
MGMT\$J2EEAPP_JRFWSPOLICY	MGMT\$WEBLOGIC_NETWORK_CHANNELS
MGMT\$J2EEAPP_JRFWSOPE	MGMT\$WEBLOGIC_NODEMANAGER
MGMT\$J2EEAPP_WEBAPPCOMPONENT	MGMT\$WEBLOGIC_OPSSSYSPROP
MGMT\$J2EEAPP_WSCONFIG	MGMT\$WEBLOGIC_RAONFIG
MGMT\$J2EEAPP_WSPORTCONFIG	MGMT\$WEBLOGIC_RAOUTBOUNDCONFIG
MGMT\$WEBLOGIC_APPLICATIONS	MGMT\$WEBLOGIC_RESOURCECONFIG
MGMT\$WEBLOGIC_CLUSTER	MGMT\$WEBLOGIC_SERVER
MGMT\$WEBLOGIC_DOMAIN	MGMT\$WEBLOGIC_STARTSHUTCLASSES
MGMT\$WEBLOGIC_EJBCOMPONENT	MGMT\$WEBLOGIC_VIRTUALHOST
MGMT\$WEBLOGIC_JDBCdatasource	MGMT\$WEBLOGIC_WEBAPPCOMPONENT
MGMT\$WEBLOGIC_JDBCMULTIDS	MGMT\$WEBLOGIC_WORKMANAGER
MGMT\$WEBLOGIC_JMSCONNFACTORY	MGMT\$WEBLOGIC_WSCONFIG

Licensed Reports

The following reports are part of the WebLogic Server Management Pack Enterprise Edition:

- All reports in the category of **Oracle Home Patch Advisories** that pertain to Oracle Application Server targets are licensable.

Licensed Command Line Interface (CLI) Verbs

The following Enterprise Manager CLI verbs are licensed as part of the WebLogic Server Management Pack Enterprise Edition.

add_beacon	get_siteguard_script_hosts
add_siteguard_script_hosts	get_siteguard_scripts
add_swlib_storage_location	list_aru_languages
apply_template_tests	list_aru_platforms
assign_test_to_target	list_aru_products
clone_as_home	list_aru_releases
create_operation_plan	list_patch_plans
create_patch_plan	list_swlib_entities
create_siteguard_configuration	list_swlib_entity_subtypes
create_siteguard_credential_association	list_swlib_entity_types
create_siteguard_script	list_swlib_folders
create_swlib_entity	list_swlib_storage_locations
create_swlib_folder	provision
delete_operation_plan	refer_swlib_entity_files
delete_siteguard_configuration	reimport_swlib_metadata
delete_siteguard_credential_association	remove_beacon
delete_siteguard_script	remove_swlib_storage_location
delete_siteguard_script_hosts	run_prechecks
delete_test	search_patches
describe_patch_plan_input	set_availability
disable_test	set_connection_mode
enable_test	set_key_beacons_and_tests
extend_as_home	set_patch_plan_data
extract_template	show_patch_plan
get_connection_mode	submit_operation_plan
get_instances	submit_patch_plan
get_operation_plan_details	submit_procedure
get_operation_plans	sync_beacon
get_patch_plan_data	update_operation_plan
get_procedure_types	update_siteguard_configuration
get_procedure_xml	update_siteguard_credential_association
get_procedures	update_siteguard_script
get_siteguard_configuration	update_swlib_entity
get_siteguard_credential_association	upload_swlib_entity_files

WebLogic Server Management Pack Enterprise Edition Restricted Use License

WebLogic Server Management Pack Enterprise Edition includes the full capabilities of Enterprise Manager Cloud Control Service Level Management.

See [Enterprise Manager Cloud Control Service Level Management](#) in [Chapter 7](#) for more information.

SOA Management Pack Enterprise Edition

This pack delivers comprehensive management and modeling capabilities for a SOA-based environment. By combining SOA run-time governance, business-IT alignment, model-driven metrics, and SOA infrastructure management with Oracle's system management solution, Enterprise Manager Cloud Control significantly reduces the cost and complexity of managing SOA-based environments.

This pack supports the following Cloud Control SOA targets:

- Business Process Execution Language (BPEL)
- Oracle Service Bus (OSB)
- Oracle SOA Suite 11g Infrastructure (soa-infra)
- Oracle SOA Suite 11g SOA Composites

This pack also supports the following Application Dependency and Performance (ADP) targets:

- Business Process Execution Language (BPEL)
- Oracle Enterprise Service Bus (OESB)
- Oracle Service Bus (OSB)
- Oracle SOA Suite 11g SOA Composites

This pack also supports Business Transaction Management features within the SOA Management Pack Enterprise Edition.

The following sections provide SOA Management Pack Enterprise Edition licensing information for Cloud Control and Business Transaction Management target types.

Licensing for Cloud Control SOA Targets

This portion of the pack delivers comprehensive management and modeling capabilities for an SOA-based environment.

Features

The SOA Management Pack Enterprise Edition Cloud Control targets include the following features:

Feature	Description
Adapter metrics	Provide throughput and error metrics for different adapters in graphical format.
Application dependency and performance	Provide a model-driven, top-down approach within development, quality assurance (QA), staging, and production environments.
Blackouts	Suspend monitoring on targets to support scheduled maintenance periods.
Business-IT alignment	Provide integration for business KPIs and system metrics in one system for correlation and trending.
Centralized management console	Monitor and manage all enterprise components from a central location.
Configuration management	Collect configuration information for the BPEL Process Manager server/domains/processes and Oracle Service Bus.
Deployment automation	Automate deployment of BPEL suitcases, OSB resources, SOA artifacts, and SOA composites.
Discovery and service modeling	Provide discovery of Oracle BPEL processes, Oracle Service Bus-based business and proxy services. Provide automated system modeling capabilities for the SOA infrastructure.
End-to-end transaction tracing	Trace transactions across distributed application components, and monitor and measure performance characteristics of each component.
Historical analysis and reporting	Store collected metric and configuration data in a central repository.
Infrastructure management	Monitor availability and performance of SOA infrastructure components.
Management Connectors	Helpdesk (ticketing) connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems.

Feature	Description
Metric and Alert/Event History	View metric and alert/event history and its associated details.
Metric Extensions	Create new metrics to monitor conditions specific to customer environments.
Monitoring Templates and Template Collections	Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group.
Notifications	Define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules.
Runtime governance	Define SOAP tests to measure and record availability and performance of partner links (or any Web service) and business/proxy services for historical trending, troubleshooting, and root cause analysis purposes
Service level management	Monitor services from the end-user's perspective using service tests or synthetic transactions, model relationships between services and underlying IT components, and report on achieved service levels

Licensed Links

Licensed Page/Link	How to Access
BPEL Process Manager target pages	From the Enterprise Summary page, select Oracle BPEL Process Manager from the Target Search drop-down menu, then click Go . A list of BPEL Process Manager targets appears. All target pages linked from this list are licensed.
Process List page	From the Oracle BPEL Process Manager page, click the Processes link at the top of the page. The BPEL Process List page appears, which shows all the deployed BPEL processes. All links and controls on the Process List page are licensed.
Oracle BPEL Process page	From the Oracle BPEL Process Manager page, click on one of the processes in the list. The Oracle BPEL Process page appears. All links and controls on the Oracle BPEL Process page are licensed.
Oracle Service Bus targets	From the Enterprise Summary page, select Oracle Service Bus from the Target Search drop-down menu, then click Go . A list of Oracle Service Bus targets appears. All target pages linked from this list are licensed.
<ul style="list-style-type: none"> ■ SOA Artifacts Provisioning ■ Deploy SOA Composites ■ BPEL Process Provisioning 	From the Deployments tab, click the Deployment Procedures link. These deployment procedure links are licensed.
<ul style="list-style-type: none"> ■ SOA Home link ■ Application Dependency and Performance link 	From the Enterprise Manager Cloud Control Middleware tab, these links are licensed.

Licensed Page/Link	How to Access
<ul style="list-style-type: none"> ■ Policy Enforcement Dashboard ■ Registered Services ■ Saved Tests 	From the WebLogic Domain drop-down menu, select Web Services . These selections are licensed.
Save Test button	From the Web Services selection above, select the Test Web Services menu item. This button is licensed.
<ul style="list-style-type: none"> ■ Faults and Rejected Messages tab ■ Deployed Composites tab ■ Dehydration Diagnostics tab 	From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, these tabs are licensed.
<ul style="list-style-type: none"> ■ Monitoring menu ■ Provisioning menu ■ Configuration menu 	From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, these menus and all sub-items are licensed.
Blackouts	From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, this item under the Control menu is licensed.
Faults tab	From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, select the Service Engine menu item, then the BPEL Engine sub-menu item. On the BPEL Engine page, this tab is licensed.

Licensing for Targets Related to Application Dependency and Performance

Oracle Enterprise Manager contains functionality related to application dependencies and performance for SOA, Portal, and Java Enterprise Edition applications.

Features

The SOA Management Pack Enterprise Edition includes the following application dependency and performance features only for SOA components:

Feature	Description
Automatic modeling and discovery	Automatically model and discover management applications displaying multiple views of the application, including the topology, function/flow, and architectural views.
Contextual visibility into SOA metrics	Provide drill-down contextual visibility into SOA metrics.
Service-level objectives	Provide service-level objectives (SLOs) at any point within the architecture for indicators and alerts.

Note: Within the SOA Management Pack Enterprise Edition, application dependency and performance licensing is restricted to SOA, ESB, and OSB components and does not include Portal, Pageflow, Java EE, or Web Service components.

Licensed Links

Licensed Page/Link	How to Access
<ul style="list-style-type: none"> ■ Oracle Enterprise Manager ■ BPEL Processes link, sub-nodes ■ ESB link, all sub-nodes ■ OSB link, all sub-nodes ■ Composites link, all sub-nodes ■ AIA link, all sub-nodes ■ Web Services link, all sub-nodes ■ Integration link, all sub-nodes ■ Processes link, all sub-nodes 	<p>From the Enterprise Summary page, click the Targets menu, then Middleware. On the Middleware page, click the Application Dependency and Performance link at the bottom of the page.</p> <p>From the upper-left navigation pane in the resulting view, click the Monitor tab. These links and sub-nodes, including all of the associated links in the right-hand pane, and any pages, views, or links as well as the items they contain are licensed.</p>
<p>In addition to the links and sub-nodes, all tabbed pane links and data available in the right-hand pane as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane are licensed.</p> <ul style="list-style-type: none"> ■ Applications link, all sub-nodes ■ Resources link, all sub-nodes <p>In addition to the links and sub-nodes, all tabbed pane links and data available in the right-hand pane as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane are licensed, except for these sub-nodes, which are excluded if they appear: Portals, WebCenter, Services, Pageflows.</p>	
Application Dependency and Performance User Interface page	From the Application Dependency and Performance User Interface default view, all drop-down menu items and sub-items, navigation bars, lower information bar (bottom of interface), and time frame modification features at the top of the interface are licensed.
Configure page	From the Application Dependency and Performance User Interface default view, click the Configure tab. All navigation tree nodes as well as all tabbed pane links and data available in the right pane are licensed.

Licensed Reports

All reports associated with the following target types are part of the SOA Management Pack Enterprise Edition:

- Oracle BPEL Process Manager
- Oracle Service Bus
- SOA Composite
- SOA Infrastructure
- SOA Partition

Licensed Command Line Interface (CLI) Verbs

The following Enterprise Manager CLI verbs are licensed as part of the SOA Management Pack Enterprise Edition.

get_instances	get_procedure_types
get_instance_data_xml	get_procedure_xml
get_procedures	submit_procedure

Licensing for Business Transaction Management

The SOA Management Pack Enterprise Edition includes the following Business Transaction Management features only for Oracle Service Bus and Oracle SOA Suite:

Feature	Description
Contextual visibility	Provide drill-down contextual visibility into SOA and OSB metrics.
Exception management	Provide transaction alerting and searching to locate exceptions and errors in transactions that span multiple application components
Transaction discovery	Discover, record, and correlate transactions as they flow across components that span multiple JVMs, containers, and platforms.
Transaction-level agreements	Provide transaction-level objectives (TLOs) that span multiple interacting components.

Business Transaction Management Restricted-use Licensing

Oracle includes a restricted-use license of Oracle Service Bus (and its subcomponents) for the express purpose of monitoring endpoints for Oracle Enterprise Manager Business Transaction Management, covering creation of Proxy and Business Service in pass-through mode only. Oracle Service Bus may be configured with the Business Transaction Management observer agent in single instance and an additional instance of Oracle Service Bus may be configured for Proxy failover purposes.

Management Pack for WebCenter

The Management Pack for WebCenter provides monitoring and management for the WebCenter Content: Server, WebCenter Portal: Spaces, WebCenter Portal: Services, and WebCenter Portal: Framework. The Management Pack for WebCenter includes:

- Availability and monitoring of all components.
- Performance monitoring of all components.
- Historical analysis and reporting.
- Thresholds and events.
- Dashboard monitoring.

Features of Management Pack for WebCenter

The Management Pack for WebCenter includes the following features:

Feature	Description
Advanced alert management	Provide notification methods, rules and schedules, metric history and associated drill-downs, ability to set blackouts, associate corrective actions with alert, user-defined metrics, metric snapshots, and monitoring templates.

Feature	Description
Automatic modeling and discovery	Automatically model and discover management applications displaying multiple views of the application, including the topology, function/flow, and architectural views.
Blackouts	Suspend monitoring on targets to support scheduled maintenance periods.
Centralized management console	Provide a consolidated browser-based view of the entire enterprise.
Contextual visibility into Portal, Web Services and J2EE metrics	Provide drill-down contextual visibility into Portal, Web Services, and J2EE metrics.
Management Connectors	Helpdesk (ticketing) connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems.
Metric and Alert/Event History	View metric and alert/event history and its associated details.
Metric Extensions	Create new metrics to monitor conditions specific to customer environments.
Metrics visibility at any layer	Automatically generate customized dashboards and views to view metrics at any layer in the application through graphs and tables.
Monitoring Templates and Template Collections	Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group.
Notifications	Define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules.
Performance monitoring	Provide real-time and historical performance monitoring.

Licensed Links

Licensed Page/Link	How to Access
<ul style="list-style-type: none"> ■ WebCenter right-hand pane ■ Portlet Producer right-hand pane 	From the Enterprise Manager Home page, select Oracle WebCenter from the Target Search drop-down menu, then click Go . A list of Oracle WebCenter targets appears. Click on any target. All alert, policy violation, and historical links in these panes are licensed.

Licensed Page/Link	How to Access
<ul style="list-style-type: none"> ■ Oracle Enterprise Manager link ■ Portals link, all sub-nodes ■ WebCenter link, all sub-nodes ■ Web Services link, all sub-nodes ■ Pageflows link, all sub-nodes ■ Services link, all sub-nodes ■ Processes link, all sub-nodes ■ Applications link, all sub-nodes ■ Resources link, all sub-nodes 	<p>From the Enterprise Manager Home page, click the Targets menu, then Middleware. Click Application Performance and Dependency under Related Links.</p> <p>Within the Management Pack for WebCenter Suite, licensing is restricted to Web Services, J2EE, Portal, WebCenter, and Pageflow components, and does not include BPEL, ESB, AIA, Composites, or OSB components.</p> <p>From the Application Dependency and Performance dashboard page, click the Monitor tab. These links and menu items are licensed</p>
<p>In addition to all links and sub-nodes, all tabbed pane links and data available in the right-hand pane as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane are licensed.</p>	
<ul style="list-style-type: none"> ■ WebCenter ■ ADF ■ All ■ Day ■ 2 hours 	<p>Select one of the applications under the Application Deployment node in the left-hand navigation tree, then click the Application Deployment drop-down menu on the page to list the contents. All pages and links from these menu items are licensed.</p>
<ul style="list-style-type: none"> ■ Status History ■ Alert History ■ Blackouts ■ Policy Violations ■ Policy Trend Overview 	<p>From the Portlet Producer page, click the Portlet Producer menu, then Monitoring. These links and menu items are licensed.</p>
<p>Create/End Blackout... page</p>	<p>From the Portlet Producer page, click the Portlet Producer menu, then Control. This page is licensed.</p> <p>Click the WebCenter menu, then Control. This page is licensed.</p>
<ul style="list-style-type: none"> ■ Performance Summary ■ Service Metrics ■ Historical Service Metrics ■ Group Space Metrics ■ Historical Group Space Metrics ■ Status History ■ Alert History ■ Blackouts ■ Policy Violation ■ Policy Trend Overview 	<p>Click the WebCenter menu, then Monitoring. These links and menu items are licensed.</p>
<p>Configure tab link</p>	<p>From the upper-left navigation area, click the Configure tab link. All navigation tree nodes as well as all tabbed pane links and data available in the right pane are licensed.</p>

Licensed Page/Link	How to Access
Resources tab link	From the upper-left navigation area, click the Resources tab link. All navigation tree nodes as well as all tabbed pane links and data available in the right pane are licensed.
Custom Views tab link	From the upper-left navigation area, click the Custom Views tab link. All navigation tree nodes in the lower-left navigation tree as well as all tabbed pane links and data available in the right pane are licensed.

Webcenter Management Pack Restricted Use License

Webcenter Management Pack includes the full capabilities of Enterprise Manager Cloud Control Service Level Management.

See [Enterprise Manager Cloud Control Service Level Management](#) in [Chapter 7](#) for more information.

Management Pack for Oracle Coherence

The Management Pack for Oracle Coherence provides comprehensive monitoring, cluster management, cache management and configuration management capabilities for Coherence. This pack provides complete cluster visibility by supplying detailed metrics of various cluster artifacts and their interdependencies. The performance views can be completely customized and saved. The topology view gives graphical representation of dependencies of the components and performance hotspots. Enterprises can monitor more than one Coherence cluster from a single console. Organizations can keep track of node configuration over period of time and also change runtime configuration parameters for caches and nodes.

Enterprise Manager provides out-of-box support for metric alerts, enabling users to proactively monitor the cluster health. Various performance charts show real-time and historical performance trends. The cache data management features gives ability to perform several operations on any cache in the Coherence cluster (for example, view, import, export, purge, add index, remove index, etc.). Enterprise Manager automates the mundane tasks of setting up Coherence software and creating a cluster on distributed machines. Enterprise Manager also enables users to start and stop new nodes in an already monitored Coherence cluster. Similarly, users can also start and stop the entire cluster. User can monitor the node log files by setting patterns. Enterprise Manager generates alert when the patterns are found matching.

Features

The Management Pack for Oracle Coherence includes the following features:

Feature	Description
Automate deployment	Automate the deployment and setup of the Coherence cluster with multiple nodes.
Blackouts	Suspend monitoring on targets to support scheduled maintenance periods.
Cache data management	Perform operations such as view, export, purge, etc., on cache data.
Complete cluster visibility	Provide detailed metrics for all Coherence components.

Feature	Description
Configuration management	Change run-time configuration parameters of multiple nodes, caches, and services from the central user interface console. Keep track of node configuration over period of time, change runtime configuration parameters of caches, nodes and services.
Customizable performance views	Create custom performance views by selecting metrics from the metrics pallet, overlay multiple metrics on the chart, save different views.
Log file monitoring	Monitor the node log files by setting patterns.
Management Connectors	Helpdesk (ticketing) connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems.
Metric and Alert/Event History	View metric and alert/event history and its associated details.
Metric Extensions	Create new metrics to monitor conditions specific to customer environments.
Monitor multiple clusters	Monitor multiple clusters from a single console.
Monitoring Templates and Template Collections	Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group.
Notifications	Define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules.
Start and stop nodes	Stop existing nodes and start new ones in a Coherence cluster.
Start and stop the cluster	Start and stop the entire Coherence cluster.
Topology view	Graphical representation of the Coherence caches, nodes and hosts with related in context performance alerts.

Licensed Links

Licensed Page/Link	How to Access
Oracle Coherence Cluster type links	From the Enterprise Summary page, click the Targets menu, then Middleware . All links and subordinate pages of the Oracle Coherence Cluster type in the table are licensed.

Oracle Application Replay Pack

Oracle Application Replay Pack enables you to perform realistic, production scale testing of your Web and packaged Oracle applications. Unlike traditional application testing tools, it uses real production workloads to generate load against applications under test and does not require any script development or maintenance. Oracle Application Replay Pack significantly reduces testing time. It provides the most efficient, optimized and highest quality testing for validating application infrastructure changes.

Requirements

Oracle Application Replay Pack requires Oracle Real User Experience Insight 12.1.0.0 for workload capture. See [Chapter 7, "End User Monitoring"](#) for more information.

The synchronized replay feature of Oracle Application Replay pack requires Oracle Real Application Testing licenses for the capture and replay databases.

Features

The Oracle Application Replay Pack includes the following features

Feature	Description
Workload capture	Provide workload capture support with zero overhead.
Workload replay	Replays workload with characteristics identical to production.
Reporting and analysis	Provide rich reporting support for analysis and problem detection.

Licensed Links

Licensed Page/Link	How to Access
Application Replay page	From the Enterprise Summary page, click the Enterprise menu, Quality Management , then Application Replay . All links and subordinate pages of the Application Replay page are licensed.

Oracle Application Replay Pack Restricted-use Licensing

Oracle Enterprise Manager Application Replay Pack includes the following restricted-use licenses:

- Restricted-use licenses of Oracle Load Testing Developer Edition and Application Load Testing Accelerators are included under the Oracle Application Replay Pack.
- Restricted-use licenses of Real User Experience Insight Accelerators for Oracle E-Business Suite, Fusion Applications, Siebel, JD Edwards EnterpriseOne applications are included under the Application Replay license.

Business Intelligence Management Pack

This pack provides an integrated solution for ensuring the performance and availability of Oracle Business Intelligence Enterprise Edition (Oracle BI EE) for both Release 11g and Release 10g. Using the pack, you can receive proactive alerts on impending problems for the application, examine run-time statistics to troubleshoot and tune performance, compare configurations across different environments, and keep track of configuration changes to avoid configuration-related problems.

You can use the pack with other Oracle Enterprise Manager management packs and plug-ins to achieve end-to-end management of the entire application environment, including both Oracle and non-Oracle databases, operating systems, storage, and network devices.

See the following sections for more information about the available features and licensed links:

- [Features](#)
- [Licensed Links for Business Intelligence Management Pack - Oracle BI EE 11g](#)
- [Licensed Links for Business Intelligence Management Pack - Oracle BI EE 10g](#)

Features

The Business Intelligence Management Pack includes the following features:

Feature	Description
Automatic discovery	Provide support to efficiently and quickly discover targets.
Blackouts	Suppress unnecessary alerts during maintenance windows, and provide more accurate availability reporting.
Change history	Search collected configuration data and view the history of configuration changes for diagnostic and regulatory purposes.
Configuration comparison	Provide configuration diagnostics quickly. Replicate configuration in development/staging to production. Make sure that configuration settings amongst Oracle BI components in a clustered environment are consistent.
Configuration snapshot	Allow known effective configuration information to be retained for future analysis. Save configurations to a configuration file (XML file) or to the Management Repository.
Dashboard reports	Provide key query statistics for usage trending analysis.
Dashboards and reports	Visualize in one stop the health status of the BI environment.
Historical metrics	Measure usage and performance metrics for monitored Oracle BI targets. Diagnose performance problems by identifying bottlenecks in any of the monitored Oracle BI targets.
Management Connectors	Helpdesk (ticketing) connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems.
Metric and Alert/Event History	View metric and alert/event history and its associated details.
Metric Extensions	Create new metrics to monitor conditions specific to customer environments.
Monitoring Templates and Template Collections	Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group.
Notifications	Define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules.
O/S monitoring	Provide complete end-to-end management of the application environment.
Performance charts	See detailed performance charts in a historical view to perform usage analysis and diagnose production problems.
Service level rule	Define service-level objectives based on business requirements.
Service tests and beacons	Record service tests to simulate key end-user activities, and actively measure performance and availability from an end-user perspective.

Licensed Links for Business Intelligence Management Pack - Oracle BI EE 11g

The following licensed pages and links of this pack apply to Oracle Business Intelligence-specific targets within Enterprise Manager. These targets include:

- | | |
|---------------------------------|-----------------------|
| ■ Oracle BI Instance | ■ Oracle BI Server |
| ■ Oracle BI Cluster Controller | ■ Oracle BI Scheduler |
| ■ Oracle BI Java Host | ■ Essbase Server |
| ■ Oracle BI Presentation Server | ■ Essbase Application |

Feature	How to Access
Oracle BI Instance	
<ul style="list-style-type: none"> ■ Logs* ■ Job Activity ■ Dashboard Reports ■ Scheduler Reports ■ Configuration ■ Compliance 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Instance. From the Oracle BI Instance target menu, these items are licensed.</p> <p>Note: <i>The log viewer functionality is licensed with the WebLogic Server Management Pack Enterprise Edition.</i></p>
Control	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Instance. From the Oracle BI Instance target Control menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Create Blackout ■ End Blackout
Monitoring	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select target of type Oracle BI Instance. From the Oracle BI Instance target Monitoring menu, these items are license:</p> <ul style="list-style-type: none"> ■ Performance Summary ■ Status History ■ Alert History ■ Blackouts
Availability	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Instance. The Availability tab and all its sub-tabs are licensed.</p>
Oracle BI Cluster Controller	
<ul style="list-style-type: none"> ■ Job Activity ■ Configuration ■ Compliance 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Cluster Controller. On the Oracle BI Cluster Controller target menu, these items and all sub-items are licensed.</p>

Feature	How to Access
Monitoring	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Cluster Controller. From the Oracle BI Cluster Controller target Monitoring menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Performance Summary ■ Status History ■ Alert History ■ Blackouts
Control	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Cluster Controller. From the Oracle BI Cluster Controller target Control menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Create Blackout ■ End Blackout
Oracle BI Java host	
<ul style="list-style-type: none"> ■ Job Activity ■ Configuration ■ Compliance 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Java host. On the Oracle BI Java host target menu, these items and all sub-items are licensed.</p>
Monitoring	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Java host. From the Oracle BI Java host target Monitoring menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Performance Summary ■ Status History ■ Alert History ■ Blackouts
Control	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Java host. From the Oracle BI Java host target Control menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Create Blackout ■ End Blackout
Oracle BI Presentation Server	
<ul style="list-style-type: none"> ■ Job Activity ■ Configuration ■ Compliance 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Presentation Server. On the Oracle BI Presentation Server target menu, these items and all sub-items are licensed.</p>
Monitoring	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Presentation Server. From the Oracle BI Presentation Server target Monitoring menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Performance Summary ■ Status History ■ Alert History ■ Blackouts

Feature	How to Access
Control	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Presentation Server. From the Oracle BI Presentation Server target Control menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Create Blackout ■ End Blackout
Oracle BI Server	
<ul style="list-style-type: none"> ■ Job Activity ■ Configuration ■ Compliance 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Server. On the Oracle BI Server target menu, these items and all sub-items are licensed.</p>
Monitoring	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Server. From the Oracle BI Server target Monitoring menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Performance Summary ■ Status History ■ Alert History ■ Blackouts
Control	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Server. From the Oracle BI Server target Control menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Create Blackout ■ End Blackout
Oracle BI Schedule	
<ul style="list-style-type: none"> ■ Job Activity ■ Configuration ■ Compliance 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Scheduler. On the Oracle BI Scheduler target menu, these items and all sub-items are licensed.</p>
Monitoring	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Scheduler. From the Oracle BI Scheduler target Monitoring menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Performance Summary ■ Status History ■ Alert History ■ Blackouts
Control	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Scheduler. From the Oracle BI Scheduler target Control menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Create Blackout ■ End Blackout
Essbase Server	
<ul style="list-style-type: none"> ■ Job Activity ■ Configuration ■ Compliance 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Essbase Server. On the Essbase target menu, these items and all sub-items are licensed.</p>

Feature	How to Access
Monitoring	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Essbase Server. From the Essbase target Monitoring menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Performance Summary ■ Status History ■ Alert History ■ Blackouts
Control	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Essbase Server. From the Essbase target Control menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Create Blackout ■ End Blackout
Essbase Application	
<ul style="list-style-type: none"> ■ Job Activity ■ Configuration ■ Compliance 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Essbase Application. On the Essbase Application target menu, these items and all sub-items are licensed.</p>
Monitoring	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Essbase Application. From the Essbase Application target Monitoring menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Performance Summary ■ Status History ■ Alert History ■ Blackouts
Control	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Essbase Application. From the Essbase Application target Control menu, these items are licensed:</p> <ul style="list-style-type: none"> ■ Create Blackout ■ End Blackout

Licensed Links for Business Intelligence Management Pack - Oracle BI EE 10g

The following licensed pages and links of this pack apply to Oracle Business Intelligence-specific targets within Enterprise Manager. These targets include:

■ Oracle BI Analytics Server	■ Oracle BI Suite Enterprise Edition
■ Oracle BI Cluster Controller	■ Oracle BI Data Warehouse Administration Console (DAC) Server
■ Oracle BI Presentation Server	■ Hosts Running BI Components
■ Oracle BI Scheduler	

Feature	How to Access
Oracle BI Analytics Server	

Feature	How to Access
<ul style="list-style-type: none"> ■ Monitoring ■ Control ■ Job Activity ■ Information Publisher Reports ■ Configuration ■ Compliance ■ Target Setup 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Analytics Server. From the Oracle BI Analytics Server target menu, these items are licensed.</p>
Oracle BI Analytics Server Performance page	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select an Oracle BI Analytics Server name. On the Oracle BI Analytics Server page, click the Performance sub-tab. All features on this page are licensed.</p>
Oracle BI Analytics Server Dashboard Reports page	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select an Oracle BI Analytics Server name. On the Oracle BI Analytics Server page, click the Dashboard sub-tab. All features on this page are licensed.</p>
Oracle BI Cluster Controller	
Oracle BI Cluster Controller Members page	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Cluster Controller. On the Oracle BI Cluster Controller page, click the Members sub-tab. All features on this page are licensed.</p>
<ul style="list-style-type: none"> ■ Monitoring ■ Control ■ Job Activity ■ Information Publisher Reports ■ Configuration ■ Compliance ■ Target Setup 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Cluster Controller. From the Oracle BI Cluster Controller target menu, these items are licensed.</p>
Oracle BI Presentation Server	
<ul style="list-style-type: none"> ■ Monitoring ■ Control ■ Job Activity ■ Information Publisher Reports ■ Configuration ■ Compliance ■ Target Setup 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Oracle BI Presentation Server. From the Oracle BI Presentation Server target menu, these items are licensed.</p>
Oracle BI Presentation Server Performance page	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select an Oracle BI Presentation Server name. On the Oracle BI Presentation Server page, click the Performance sub-tab. All features on this page are licensed.</p>
Oracle BI Scheduler	

Feature	How to Access
<ul style="list-style-type: none"> ■ Monitoring ■ Control ■ Job Activity ■ Information Publisher Reports ■ Configuration ■ Compliance ■ Target Setup ■ Failed BI Jobs Scheduler section ■ Next Schedule Jobs section ■ All links in the System and Service section 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. From the All Targets page, select a target of type Oracle BI Scheduler name. From the Oracle BI Scheduler target menu, these items are licensed.</p>
Oracle BI Suite Enterprise Edition	
<ul style="list-style-type: none"> ■ Failed BI Jobs Scheduler section ■ All links in the System and Service section ■ All links in the Alerts section ■ All links in the Policy Violations section 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select target of type Oracle BI Suite EE. On the Oracle BI Suite EE page, these items are licensed.</p>
Oracle BI Suite EE Members page	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. From the All Targets page, select an Oracle BI Suite EE name. On the Oracle BI Suite EE page, click the Members sub-tab. All features on this page are licensed.</p>
<p>System Home page</p> <ul style="list-style-type: none"> ■ System Charts page ■ System Administration page ■ System Components page ■ System Topology page 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. From the All Targets page, select an Oracle BI Suite EE name. On the Oracle BI Suite EE page, select a System name in the System and Service section. On the System home page, all features on the page are licensed. From the System home page:</p> <ul style="list-style-type: none"> ■ Select the Charts sub-tab. All features on this page are licensed. ■ Select the Administration sub-tab. All features on this page are licensed. ■ Select the Components sub-tab. All features on this page are licensed. ■ Select the Topology sub-tab. All features on this page are licensed.
System Charts page	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. From the All Targets page, select an Oracle BI Suite EE name. From the Oracle BI Suite EE page, select one of the following items:</p> <ul style="list-style-type: none"> ■ System name ■ Service name <p>On the corresponding page, select the Charts sub-tab. All features on this page are licensed.</p>

Feature	How to Access
System Administration page	From the Enterprise Summary page, click the Targets menu, then All Targets . From the All Targets page, select an Oracle BI Suite EE name. From the Oracle BI Suite EE page, select a System name in the System and Service section. On the System Home page, select the Administration sub-tab. All features on this page are licensed.
System Components page	From the Enterprise Summary page, click the Targets menu, then All Targets . From the All Targets page, select an Oracle BI Suite EE name. From the Oracle BI Suite EE page, select a System name in the System and Service section. On the System Home page, select the Components sub-tab. All features on this page are licensed.
<ul style="list-style-type: none"> ■ System Topology page 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. From the All Targets page, select an Oracle BI Suite EE name. From the Oracle BI Suite EE page, select one of the following items:</p> <ul style="list-style-type: none"> ■ System name ■ Service name <p>On the corresponding page, select the Topology sub-tab. All features on these pages are licensed.</p>
<ul style="list-style-type: none"> ■ Black Out button ■ Availability link ■ All links in the Key Component Summary section ■ All links in the Related Links section 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select an Oracle BI Suite EE name. On the Oracle BI Suite EE page, select a Service name in the System and Service section. These items are licensed.</p>
Service System page	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. From the All Targets page, select an Oracle BI Suite EE name. From the Oracle BI Suite EE page, select a Service name in the System and Service section. On the Service Home page, select the System sub-tab. All features on this page are licensed. On the Service System home page, all features on the page are licensed. From the Service System home page:</p> <ul style="list-style-type: none"> ■ Select the Charts sub-tab. All features on this page are licensed. ■ Select the Test Performance sub-tab. All features on this page are licensed. ■ Select the System sub-tab. All features on this page are licensed. ■ Select the Topology sub-tab. All features on this page are licensed. ■ Select the Monitoring Configuration sub-tab. All features on this page are licensed.
<ul style="list-style-type: none"> ■ System Configuration, Root Cause Analysis Configuration, Service Tests and Beacons, Availability Definition, Performance Metrics, and Usage Metrics links ■ All links in the Related Links section 	<p>From the Enterprise Summary page, click the Targets menu, then All Targets. From the All Targets page, select an Oracle BI Suite EE name. From the Oracle BI Suite EE page, select a Service name in the System and Service section. On the Service Home page, select the Monitoring Configuration sub-tab. These items are licensed.</p>

Feature	How to Access
Oracle BI Data Warehouse Administration Console (DAC) Server	
<ul style="list-style-type: none">■ Monitoring■ Control■ Job Activity■ Information Publisher Reports■ Configuration■ Compliance■ Target Setup	From the Enterprise Summary page, click the Targets menu, then All Targets . On the All Targets page, select target of type Oracle BI DAC Server . On the Oracle BI DAC Server target menu, these items are licensed.
Oracle BI DAC Server Performance page	From the Enterprise Summary page, click the Targets menu, then All Targets . On the All Targets page, select an Oracle BI DAC Server name. On the Oracle BI DAC Server page, click the Performance sub-tab. All features on this page are licensed.

Identity Management Enterprise Management

Enterprise Manager offers the following management pack for Identity Management:

- [Management Pack Plus for Identity Management](#)

The following sections in this chapter describe the licensed features and links for this pack.

Management Pack Plus for Identity Management

The Management Pack Plus for Identity Management enables enterprises to proactively monitor the availability, performance, load, and security metrics of various Identity Management components. The Management Pack Plus for Identity Management helps improve performance and availability, and reduce the cost and complexity of managing Identity Management deployments, including the following environments:

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- | | |
|--|----------------------------------|
| ■ Oracle Internet Directory | ■ Oracle Identity Federation |
| ■ Directory Integration Platform | ■ Oracle Access Manager |
| ■ Oracle Directory Server Enterprise Edition (formerly Sun Java Directory Server Enterprise Edition) | ■ Oracle Identity Manager |
| ■ Oracle Virtual Directory | ■ Oracle Adaptive Access Manager |
-

Features

The Management Pack Plus for Identity Management includes the following features:

Note: A management pack license is required to use the features described below in the Enterprise Manager graphical user interface, command-line interface, and published repository views.

Feature	Definition
Beacons	Measure availability and performance from representative key user locations.
Blackouts	Suspend monitoring on targets to support scheduled maintenance periods.

Feature	Definition
Complete service monitoring	Monitor service availability, performance, usage, and service level compliance.
Configuration	Track configuration metrics, take configuration snapshots, and compare configurations for Oracle Access Manager 10g components, Oracle Internet Directory 11g, Oracle Directory Integration Platform 11g, Oracle Virtual Directory 11g, Oracle Identity Federation 11g, and Oracle Directory Server Enterprise Edition 6.x, 7.x, and 11gR1.
Management Connectors	Helpdesk (ticketing) connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems.
Metric and Alert/Event History	View metric and alert/event history and its associated details.
Metric Extensions	Create new metrics to monitor conditions specific to customer environments.
Monitoring and diagnostics	Receive real-time metrics, historical data, and alert notifications. Proactively monitor the Oracle Identity Management environment. Out-of-box collection of key performance metrics for monitored components facilitates rapid time to value.
Monitoring Templates and Template Collections	Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group.
Notifications	Define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules.
Service modeling	Model critical business functions based on a wide range of supported protocols.
Single-step discovery	<p>Perform single-step discovery of Identity Management 10g and Identity Management 11g components.</p> <p>The supported Identity Management 10g components include Oracle Access Manager (OAM) 10g, Oracle Identity Manager (OIM) 9.x, Oracle Identity Federation (OIF) 10g, and Oracle Identity Management Suite 10g (including Oracle Internet Directory, Directory Integration Platform, Delegated Administration Services, and Single Sign-On).</p> <p>The supported Identity Management 11g components include Oracle Internet Directory, Oracle Directory Integration Platform, Oracle Virtual Directory, Oracle Identity Federation, Oracle Access Manager, Oracle Identity Manager, and Oracle Adaptive Access Manager. Single-step discovery enables you to quickly set up your monitoring environment.</p> <p>A simple target discovery is also provided for Oracle Directory Server Enterprise Edition (formerly Sun Java Directory Server Enterprise Edition) 6.x, 7.x, and 11g</p>

Targets

The following section summarizes the target items for the Management Pack Plus for Identity Management.

Identity Management 10g Targets

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- | | |
|------------------------------------|---|
| ■ Access Manager — Access Server | ■ Directory Integration Platform Server |
| ■ Access Manager — Identity Server | ■ Oracle Internet Directory |
| ■ Access Manager — Access System | ■ Single Sign-On Server |
| ■ Access Manager — Identity System | ■ Hosts running Identity Management components |
| ■ Identity Federation Server | ■ Generic Service or Web Application targets associated with Access Manager - Access System, Access Manager - Identity System, Identity Federation System, and Identity Manager System Hosts running Identity Management components |
| ■ Identity Federation System | |
| ■ Identity Manager Repository | |
| ■ Identity Manager Server | |
| ■ Identity Manager System | |
| ■ Delegated Administration Server | |
-

Identity Management 11g Targets

-
- | | |
|---|---|
| ■ Oracle Internet Directory | ■ Oracle Adaptive Access Manager Cluster |
| ■ Identity Federation Server | ■ Oracle Identity Manager |
| ■ Directory Integration Platform Server | ■ Oracle Identity Manager Cluster |
| ■ Oracle Virtual Directory | ■ Hosts running Identity Management components |
| ■ Oracle Access Manager | ■ Generic Service & Identity and Access System targets associated with Identity Management 11g components |
| ■ Oracle Access Manager Cluster | |
| ■ Oracle Adaptive Access Manager | |
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Oracle Directory Server Enterprise Edition Targets

With the Oracle System Monitoring Plug-in for Oracle Directory Server, a simple target discovery is also provided for Oracle Directory Server Enterprise Edition (formerly Sun Java Directory Server Enterprise Edition) 6.x and 7.x, as well as ODSEE 11gR1. The following Oracle DSEE target types are supported:

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- | | |
|--|--|
| ■ Directory Server Enterprise | ■ Directory Server Group |
| ■ Directory Server Enterprise Edition Server | ■ Hosts running Oracle DSEE components |
-

Licensed Links

The following licensed pages and links of this pack apply to the following Identity Management-specific targets within Enterprise Manager:

Licensed Page/Link	How to Access
Identity and Access page	From the Enterprise Summary page, click the Targets menu, then Middleware . On the Middleware page, click the Middleware Features menu, then Identity and Access . All links and drop-down menu items on this page are licensed.

Licensed Page/Link	How to Access
Identity Management 11g Targets	From the Enterprise Summary home page, click the Targets menu, then All Targets . On the All Targets page, select any of the target types referenced from Identity Management 11g Targets . All links and drop-down menu items are licensed.
Oracle Directory Server Enterprise Edition Targets	From the Enterprise Summary home page, click the Targets menu, then All Targets . On the All Targets page, select any of the target types referenced from Oracle Directory Server Enterprise Edition Targets . All links and drop-down menu items are licensed.
Access Manager - Access Server page:	From the Enterprise Summary home page, click the Targets menu, then All Targets . On the All Targets page, select a target of type Access Manager – Access Server .
<ul style="list-style-type: none"> ■ Black Out button ■ Availability link ■ Associated Directory Server Information section ■ Alerts section ■ Host Alerts section ■ Configuration section ■ Related Links section 	<p>Alternatively, from the Enterprise Summary home page, click the Targets menu, then Middleware. Click the Middleware Features menu, then Identity and Access.</p> <p>On the Access Manager – Access Server Home page, these items and all links in these sections are licensed.</p>
Access Manager - Identity Server page:	From the Enterprise Summary home page, click the Targets menu, then All Targets . On the All Targets page, select a target of type Access Manager – Identity Server . The Access Manager – Identity Server Home page appears.
<ul style="list-style-type: none"> ■ Black Out button ■ Availability link ■ Associated Directory Server Information section ■ Alerts section ■ Host Alerts section ■ Configuration section ■ Related Links section 	<p>Alternatively, from the Enterprise Summary home page, click the Targets menu, then Middleware. Click the Middleware Features menu, then Identity and Access.</p> <p>On the Access Manager - Identity Server Home page, these items and all links in these sections are licensed.</p>
Access Manager – Identity Server Performance page	From the Enterprise Summary home page, click the Targets menu, then All Targets . On the All Targets page, select a target of type Access Manager – Identity Server . On the Access Manager - Identity Server Home page, select the Performance sub-tab. All features on this page are licensed

Licensed Page/Link	How to Access
<p>Access Manager - Access System page</p> <ul style="list-style-type: none"> ■ System Charts page ■ System Administration page ■ System Components page ■ System Topology page 	<p>From the Enterprise Summary home page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Access Manager – Access System.</p> <p>Alternatively, from the Enterprise Summary home page, click the Targets menu, then Middleware. Click the Middleware Features menu, then Identity and Access.</p> <p>On the Access Manager - Access System home page, all features on the page are licensed. From the Access Manager - Access System home page:</p> <ul style="list-style-type: none"> ■ Select the Charts sub-tab. All features on this page are licensed. ■ Select the Administration sub-tab. All features on this page are licensed. ■ Select the Components sub-tab. All features on this page are licensed. ■ Select the Topology sub-tab. All features on this page are licensed.
<p>Access Manager - Identity System</p> <ul style="list-style-type: none"> ■ System Charts page ■ System Administration page ■ System Components page ■ System Topology page 	<p>From the Enterprise Summary home page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Access Manager – Identity System.</p> <p>Alternatively, from the Enterprise Summary home page, click the Targets menu, then Middleware. Click the Middleware Features menu, then Identity and Access.</p> <p>On the Access Manager - Identity System home page, all features on the page are licensed. From the Access Manager - Access Identity home page:</p> <ul style="list-style-type: none"> ■ Select the Charts sub-tab. All features on this page are licensed. ■ Select the Administration sub-tab. All features on this page are licensed. ■ Select the Components sub-tab. All features on this page are licensed. ■ Select the Topology sub-tab. All features on this page are licensed.
<p>Identity Federation Server</p> <ul style="list-style-type: none"> ■ Black Out button ■ Availability link ■ User Data Store section ■ Federation Data Store section ■ Alerts section ■ Host Alerts section ■ Related Links section 	<p>From the Enterprise Summary home page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Identity Federation Server.</p> <p>Alternatively, from the Enterprise Summary home page, click the Targets menu, then Middleware. Click the Middleware Features menu, then Identity and Access.</p> <p>On the Identity Federation Server Home page, these items and all links in these sections are licensed.</p>

Licensed Page/Link	How to Access
Identity Federation System <ul style="list-style-type: none"> ■ System Charts page ■ System Administration page ■ System Components page ■ System Topology page 	<p>From the Enterprise Summary home page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Identity Federation System.</p> <p>Alternatively, from the Enterprise Summary home page, click the Targets menu, then Middleware. Click the Middleware Features menu, then Identity and Access.</p> <p>On the Identity Federation System home page, all features on the page are licensed. From the Identity Federation System home page:</p> <ul style="list-style-type: none"> ■ Select the Charts sub-tab. All features on this page are licensed. ■ Select the Administration sub-tab. All features on this page are licensed. ■ Select the Components sub-tab. All features on this page are licensed. ■ Select the Topology sub-tab. All features on this page are licensed.
Identity Manager Repository <ul style="list-style-type: none"> ■ Black Out button ■ Availability link ■ Provisioning section ■ Associated Remote Managers section ■ Alerts section ■ Host Alerts section ■ Related Links section 	<p>From the Enterprise Summary home page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Identity Manager Repository.</p> <p>Alternatively, from the Enterprise Summary home page, click the Targets menu, then Middleware. Click the Middleware Features menu, then Identity and Access.</p> <p>On the Identity Manager Repository home page, these items and all links in these sections are licensed.</p>
Identity Manager Server <ul style="list-style-type: none"> ■ Black Out button ■ Availability link ■ Alerts section ■ Host Alerts section ■ Related Links section 	<p>From the Enterprise Summary home page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Identity Manager Server.</p> <p>Alternatively, from the Enterprise Summary home page, click the Targets menu, then Middleware. Click the Middleware Features menu, then Identity and Access.</p> <p>On the Identity Manager Server home page, these items and all links in these sections are licensed.</p>
Identity Manager Server Performance page	<p>From the Enterprise Summary home page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Identity Manager Server. From the Identity Manager Server home page, select the Performance sub-tab. All features on this page are licensed.</p>

Licensed Page/Link	How to Access
Identity Manager System <ul style="list-style-type: none"> ■ System Charts page ■ System Administration page ■ System Components page ■ System Topology page 	<p>From the Enterprise Summary home page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Identity Manager System.</p> <p>Alternatively, from the Enterprise Summary home page, click the Targets menu, then Middleware. Click the Middleware Features menu, then Identity and Access.</p> <p>On the Identity Manager System home page, all features on the page are licensed. From the Identity Manager System home page:</p> <ul style="list-style-type: none"> ■ Select the Charts sub-tab. All features on this page are licensed. ■ Select the Administration sub-tab. All features on this page are licensed. ■ Select the Components sub-tab. All features on this page are licensed. ■ Select the Topology sub-tab. All features on this page are licensed.
Hosts page with Identity Management Components <ul style="list-style-type: none"> ■ Home ■ Monitoring ■ Control ■ Job Activity ■ Information Publisher Reports ■ Administration ■ Net Services Administration ■ Log File Alerts ■ Storage Details ■ Remote File Editor ■ Execute Host Command ■ Privilege Delegation Setting ■ Related Targets ■ Configuration ■ Compliance ■ Target Setup ■ Target Information 	<p>From the Enterprise Summary page, click the Targets menu, then Middleware. On the Middleware page, click the Middleware Features menu, then Identity and Access. All links on this page are licensed.</p>
Hosts <ul style="list-style-type: none"> ■ Host Performance page ■ Host Administration page ■ Host Targets page 	<p>From the Enterprise Summary home page, click the Targets menu, then Hosts. On the Hosts page:</p> <ul style="list-style-type: none"> ■ Select the Performance sub-tab. All features on this page are licensed. ■ Select the Administration sub-tab. All features on this page are licensed. (Note: The Administration page is only available for Linux operating systems.) ■ Select the Targets sub-tab. All features on this page are licensed.

Management Pack Plus for Identity Management Restricted Use License

Management Pack Plus for Identity Management includes the full capabilities of Enterprise Manager Cloud Control Service Level Management.

See [Enterprise Manager Cloud Control Service Level Management](#) in [Chapter 7](#) for more information.

Other Infrastructure Management

The following sections in this chapter describe the licensed features and access points for each of the following categories of other Enterprise Manager infrastructure management:

- [Configuration Management Pack for Applications](#)
- [Management Pack for Non-Oracle Middleware](#)
- [System Monitoring Plug-Ins for Non-Oracle Middleware](#)
- [System Monitoring Plug-Ins for Non-Oracle Databases](#)

Configuration Management Pack for Applications

The Configuration Management Pack for Applications automates the time-consuming and often error-prone process of managing host software and hardware configurations and deployments for Oracle and non-Oracle software, excluding the Oracle Database. This pack provides capabilities such as search and compare across all systems, configuration monitoring, and compliance management, ensuring consistency across deployments.

You can access the Configuration Management Pack for Applications functionality through the following Enterprise Manager Cloud Control licensed links and by installing the Application Configuration Console. These components comprise the features provided by the Configuration Management Pack for Applications.

The Configuration Management Pack for Applications includes the following:

- **Discovery and Inventory tracking:** the ability to discover your assets, and track them.
- **Configuration Management:** track inventory, configuration drift and detailed configuration search.
- **Compliance Management:** reporting and management of industry and regulatory compliance standards.

Features

The following features and functions can be use with an existing Configuration Management Pack for Applications License:

Feature	Description
Auto Discovery	Discover host on a network and promote to being managed by Enterprise Manager.

Feature	Description
Client system analyzer	Enable your system administrators to collect and analyze configuration information and data from end-user systems. Using the pre-installed application enables you to collect end-user configuration information without setting up a separate Web server. The Management Agents collect, analyze, and upload the end-user configuration information to the Management Repository.
Compliance	Compliance Frameworks, standards, and extensibility to meet industry and regulatory compliance requirements
Configuration Collection Extensibility	Create custom configuration collections and extend current collections
Configuration Compare	Compare configurations, one-to-one, one-to-many.
Configuration History	Report on configuration or relations changes during a specific time frame.
Configuration Instance Browser	View Configuration Items and associations associated with a target.
Configuration Save	Save configurations for reference, baselines, or Gold Standards.
Configuration Search	Search for Configuration Items on a specific target or across relationships.
Configuration Topology	View topology for a specified target and its dependencies along with other targets that are dependent on it.
File Synchronization	Synchronize configuration file differences during a comparison.
Real-time configuration change detection	Provide real-time configuration change detection and automation of compliance frameworks.

Licensed Links

The following licensed pages, links, features and functions of this pack apply to host software, platform, Oracle software, and non-Oracle software excluding the Oracle Database. For management of the Oracle Database or to extend these features and functions to the Oracle Database, you must purchase the [Database Lifecycle Management Pack for Oracle Database](#).

The following are the licensed pages, links, features and functions that can be use with an existing Configuration Management Pack for Applications License:

Licensed Page/Link	How to Access
Client System Analyzer	From the Enterprise Manager home page, click the Enterprise menu, then Configuration . The Client System Analyzer and Client Configurations items are licensable as part of the WebLogic Server Management Pack Enterprise Edition.
Configuration Search	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, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications.

Licensed Page/Link	How to Access
Configuration Instance Browser	<p>From the Enterprise Manager home page Targets link. Select a Target excluding the Oracle Database. From the Target home page, select the drop-down under the Target Type and Configuration. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <p>From the Target home page, select the drop-down under the Target Type and Configuration. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications</p>
Configuration History	<p>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, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications.</p>
Configuration Compare	<p>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, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications.</p>
File Synchronization	<p>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 Configuration Management Pack for Applications.</p>

Licensed Page/Link	How to Access
Configuration Topology	<p>From the Enterprise Manager home page Targets link. Select a Target, excluding the Oracle Database, from the Target home page. Select the drop-down under the Target Type and Configuration, Topology. In the View drop-down, Used By is licensed as part of the Configuration Management Pack for Applications.</p> <p>From the Enterprise Manager home page Targets link. Select a Target, excluding the Oracle Database, from the Target home page. Select the drop-down under the Target Type and Configuration, Topology and Customization. All features, functions, links, buttons and drill-downs on this page are licensed as part of the Configuration Management Pack for Applications.</p> <p>If the Target Home Page is accessed directly or by other paths:</p> <ul style="list-style-type: none"> ▪ Select a Target, excluding the Oracle Database, from the Target home page. Select the drop-down under the Target Type and Configuration, Topology. In the View drop-down, Used By is licensed as part of the Configuration Management Pack for Applications ▪ From the Target home page, select the drop-down under the Target Type, Configuration, Topology, and Customization. All features, functions, links, buttons and drill-downs on this page are licensed as part of the Configuration Management Pack for Applications
Configuration Save	<p>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, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications.</p>
Configuration Collection Extensibility	<p>From the Enterprise Manager home page, click the Enterprise menu, Configuration and Custom. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications.</p>
Compliance	<p>From the Enterprise Manager home page, click the Enterprise menu, then Compliance. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications.</p>
Real-time Configuration Change Detection	<p>From the Enterprise Manager home page, click the Enterprise menu, then Compliance. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications.</p>

Licensed Reports

The following reports are part of the Configuration Management Pack for Applications. All reports, excluding reports associated with, or for the Oracle Database, are licensed for Configuration Management Pack for Applications. To access the reports go to the **Enterprise Manager** home page, click the **Reports**, then **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 Configuration Management Pack for Applications:

- **Compliance**
- **Configuration**

The following reporting areas, reports and sub-reports under **BI Publisher Enterprise Reports** are licensed as part of the Configuration Management Pack for Applications:

- **Compliance**
- **Configuration**

Additional Licensed Features

With the purchase of the Configuration Management Pack for Applications you also are entitled to the features described in the following sections. These features are restricted to the host software and hardware configurations and deployments for Oracle and non-Oracle software, excluding the Oracle Database.

Licensed Feature	Description
Application Configuration Console	Provides IT infrastructure teams with an automated “gold master” approach to application infrastructure configuration management. Application Configuration Console includes a restricted-use license for Oracle Database (Enterprise Edition) solely for the purpose of running the Application Configuration Console Server
Self Update	From the Enterprise Manager home page, click the Setup menu, then Extensibility and Self Update . The downloading and applying any updates associated with, host, Oracle and non-Oracle software, excluding the Oracle Database, for Configuration and Compliance are licensed as part of the Configuration Management Pack for Applications.

Previous Configuration Management Packs

If you have an older Configuration Management pack including:

- Configuration Management Pack
- Configuration Management Pack for Oracle Middleware
- Configuration Management Pack for Non-Oracle Systems

You may use all of the features licensed as part of the Configuration Management Pack for Applications only against the previously licensed targets with the exception of the following:

- Application Configuration Console
- Configuration Collection Extensibility
- Creating a custom Comparison Template
- Using a Comparison Template as part of a Configuration Comparison specification

Licensed Repository Views

The following repository views are part of the Configuration Management Pack for Applications:

Configuration Views

MGMT\$CCS_DATA	MGMT\$CS_FEATURE_USAGE
MGMT\$CCS_DATA_SOURCE	MGMT\$CS_HA_INFO
MGMT\$CCS_DATA_SOURCE_VISIBLE	MGMT\$ECM_CURRENT_SNAPSHOTS
MGMT\$CCS_DATA_VISIBLE	MGMT\$ECM_VISIBLE_SNAPSHOTS
MGMT\$CS_ASM_DISKGRP_SETTINGS	MGMT\$HW_CPU_DETAILS
MGMT\$CS_DB_CONTROL_FILE_COUNT	MGMT\$HW_IO_DEVICES
MGMT\$CS_DB_INIT_PARAMS	MGMT\$HW_NIC_BONDS
MGMT\$CS_DB_RBS_IN_SYSTEM	MGMT\$J2EE_APPLICATION
MGMT\$CS_DB_REC_SEG_SETTINGS	MGMT\$J2EEAPP_EJBCOMPONENT
MGMT\$CS_DB_REC_TS_SETTINGS	MGMT\$J2EEAPP_JRFWS
MGMT\$CS_DB_REC_USER_SETTINGS	MGMT\$J2EEAPP_JRFWSOPER
MGMT\$CS_DB_REDO_LOG_COUNT	MGMT\$J2EEAPP_JRFWSPOLICY
MGMT\$CS_DB_REDO_LOGS	MGMT\$J2EEAPP_JRFWSPORT
MGMT\$CS_DB_TABLESPACES	MGMT\$J2EEAPP_WEBAPPCOMPONENT
MGMT\$CS_DB_TBSP_SEGSPACE_MGMT	MGMT\$J2EEAPP_WSCONFIG

Oracle Home Patching Views

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

Compliance Views

MGMT\$COMPLIANCE_STANDARD_RULE	MGMT\$CS_DB_REDO_LOGS
MGMT\$COMPLIANCE_STANDARD	MGMT\$CS_DB_TABLESPACES
MGMT\$COMPLIANCE_STANDARD_GROUP	MGMT\$CS_DB_TBSP_SEGSPACE_MGMT
MGMT\$CS_EVAL_SUMMARY	MGMT\$CS_FEATURE_USAGE
MGMT\$COMPOSITE_CS_EVAL_SUMMARY	MGMT\$CS_HA_INFO
MGMT\$CS_ASM_DISKGRP_SETTINGS	MGMT\$CS_GROUP_EVAL_SUMMARY
MGMT\$CS_DB_CONTROL_FILE_COUNT	MGMT\$CS_RULE_EVAL_SUMMARY
MGMT\$CS_DB_INIT_PARAMS	MGMT\$CS_TARGET_ASSOC
MGMT\$CS_DB_RBS_IN_SYSTEM	MGMT\$CCC_ALL_OBSERVATIONS
MGMT\$CS_DB_REC_SEG_SETTINGS	MGMT\$CCC_ALL_OBS_BUNDLES
MGMT\$CS_DB_REC_TS_SETTINGS	MGMT\$CCC_DIAG_ANALYTICS
MGMT\$CS_DB_REC_USER_SETTINGS	MGMT\$CCC_DIAG_QUEUEBACKLOG
MGMT\$CS_DB_REDO_LOG_COUNT	

Client Configuration Views

MGMT\$CSA_COLLECTIONS	MGMT\$CSA_HOST_CPUS
MGMT\$CSA_FAILED	MGMT\$CSA_HOST_IOCARDS
MGMT\$CSA_HOST_OS_COMPONENTS	MGMT\$CSA_HOST_NICS
MGMT\$CSA_HOST_SW	MGMT\$CSA_HOST_OS_PROPERTIES
MGMT\$CSA_HOST_COOKIES	MGMT\$CSA_HOST_OS_FILESYSTEMS
MGMT\$CSA_HOST_CUSTOM	MGMT\$ECM_CONFIG_HISTORY
MGMT\$CSA_HOST_RULES	

Management Pack for Non-Oracle Middleware

This pack improves the availability and performance of Java applications with low overhead deployed on Non-Oracle Middleware (such as, IBM WebSphere Application Server, JBoss Application Server, and Apache Tomcat), as well as providing in-depth diagnostics.

The Management Pack for Non-Oracle Middleware includes the following components:

- Enterprise Manager system monitoring functionality for IBM WebSphere Application Servers, Microsoft Internet Information Services, Microsoft BizTalk Server, JBoss Application Servers, and Apache Tomcat.
- Application Dependency and Performance, which can model Java Enterprise Edition applications based on the metadata present and gather metrics on standard Java Enterprise Edition components. The high-level metrics are organized based on their URI mappings, and the lower-level metrics are organized based on their method-level call graph.
- Business Transaction Management features only for Java EE, .NET, TIBCO, and web service components running in Microsoft .NET environments (BizTalk, ASP.NET, WCF), WebSphere, JBoss, DataPower, BusinessWorks, or Tomcat. Business Transaction Management is separately installed from Cloud Control.
- JVM Diagnostics, which is applicable for Application Servers and standalone Java applications running on supported JVMs. This diagnoses the root cause of Java application performance problems in Java applications with very low performance overhead. See the following My Oracle Support site for the latest information about supporting JVMs and platforms:

<https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=1265738.1&blackframe=1>

Features

The Management Pack for Non-Oracle Middleware includes the following features:

Feature	Description
Application dependency and performance monitoring	Automatically model and discover management applications displaying multiple views of the application, including the topology, function/flow, and architectural views.
Blackouts	Suspend monitoring on targets to support scheduled maintenance periods.
Business transaction monitoring	Discover, record, and correlate transactions as they flow across components that may span multiple JVMs, containers, and platforms.

Feature	Description
Management Connectors	Helpdesk (ticketing) connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems.
Memory leak detection and analysis	Provide memory leak analysis in production environments.
Metric and Alert/Event History	View metric and alert/event history and its associated details.
Metric Extensions	Create new metrics to monitor conditions specific to customer environments.
Monitoring Templates and Template Collections	Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group.
Notifications	Define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules.
Performance monitoring	Provide real-time and historical performance monitoring.
Real-time monitoring of JVM	Provide a summary view of resource bottlenecks affecting performance, such as the database, I/O, CPU, and locks.
Trace in-flight transactions	View request performance problems in real time. Analyze time spent in each resource bottleneck (extend to each Java method).

Licensed Links

The following pages are licensed features of the Management Pack for Non-Oracle Middleware:

Licensed Page/Link	How to Access
Page Performance tab	From the Enterprise Summary page, select the Targets tab, then the Web Applications sub-tab. Click any Web Application Name in the table. On the Web Application page, this tab is licensed.
Page Performance page	From the Enterprise Summary page, click the Page Performance property page. All links, buttons, and drill-downs on this page are licensed.
<ul style="list-style-type: none"> ■ Advanced Analysis link ■ Alert History link ■ Blackouts link ■ Metric Baselines link 	From the Enterprise Summary page, click the Page Performance property page. On the Page Performance page, these links in the Related Links section are licensed.
Oracle JVM Diagnostics pages	All pages in Oracle JVM Diagnostics are licensed. All the links under Oracle JVM Diagnostics in the Oracle Application Diagnostics for Java (AD4J) are licensed.

Licensed Page/Link	How to Access
Availability link	<p>From the Enterprise Summary page, click Targets, then Middleware. On the Middleware page, click an IBM WebSphere Application Server link. On the IBM WebSphere Application Server page, this link in the General section is licensed.</p> <p>From the Enterprise Summary page, click Targets, then Middleware. On the Middleware page, click a JBoss Application Server link. On the JBoss Application Server page, this link in the General section is licensed.</p> <p>From the Enterprise Summary page, click Targets, then Middleware. On the Middleware page, click an Apache Tomcat Application Server link. On the Apache Tomcat Application Server page, this link in the General section is licensed.</p>
<ul style="list-style-type: none"> ■ Alert History link and notifications functionality ■ All Metrics link ■ Blackouts link 	<p>From the Enterprise Summary page, click Targets, then Middleware. On the Middleware page, click an IBM WebSphere Application Server link. On the IBM WebSphere Application Server page, these links in the Related links section are licensed.</p> <p>From the Enterprise Summary page, click Targets, then Middleware. On the Middleware page, click a JBoss Application Server link. On the JBoss Application Server page, these links in the Related links section are licensed.</p> <p>From the Enterprise Summary page, click Targets, then Middleware. On the Middleware page, click an Apache Tomcat Application Server link. On the Apache Tomcat Application Server page, these links in the Related links section are licensed.</p>
Performance Links section	<p>From the Enterprise Summary page, click the Targets, then Middleware. On the Middleware page, click an IBM WebSphere Application Server link. On the IBM WebSphere Application Server page, click the Performance tab. On the IBM WebSphere Application Server Performance page, all links in this section are licensed.</p> <p>From the Enterprise Summary page, click the Targets, then Middleware. On the Middleware page, click a JBoss Application Server link. On the JBoss Application Server page, click the Performance tab. On the JBoss Application Server Performance page, all links in this section are licensed.</p>
Reports Links section	<p>From the Enterprise Summary page, click the Targets, then Middleware. On the Middleware page, click an Apache Tomcat Application Server link. On the Apache Tomcat Application Server page, click the Reports tab. All links in this section are licensed.</p>

Application Dependency and Performance

Oracle Application Dependency and Performance models and monitors Java EE and Web Services applications. This is restricted to Java EE and web services within the Management Pack for Non-Oracle Middleware.

Features

Oracle Application Dependency and Performance within the Management Pack for Non-Oracle Middleware includes the following features:

Feature	Description
Automatic modeling and discovery	Automatically model and discover management applications displaying multiple views of the application, including the topology, function/flow, and architectural views.
Contextual visibility into J2EE and web service metrics	Provide drill-down contextual visibility into Java EE and web service metrics.
Metrics visibility at any layer	Automatically generate customized dashboards and views to view metrics at any layer in the application through graphs and tables.
Transaction tracing	Trace transactions for Java EE metrics both vertically through the application stack as well as horizontally across containers.

Licensed Links

Note: Within the Management Pack for Non-Oracle Middleware, Application Dependency and Performance licensing is restricted to Java EE and web service components for IBM WebSphere Application Server (WAS), and does not include BPEL, ESB, AIA, Portal, or Pageflow components, nor cover the Oracle WebLogic or OC4J (iAS) platforms.

From the Application Dependency and Performance user interface default view, the following links and menu items are licensed features of the Management Pack for Non-Oracle Middleware:

Licensed Page/Link	How to Access
<ul style="list-style-type: none"> ■ Oracle Enterprise Manager link ■ Web Services link ■ Services link ■ Processes link ■ Applications link ■ Resources link ■ CAMM link 	From the upper-left navigation pane, click on the Monitor tab. These links, including all of the associated links in the right-hand pane, and any pages, views, or links as well as the items they contain are licensed. All tabbed pane links and data available in the right-hand pane as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane are licensed.
Custom Views tab link	From the upper-left navigation area, click the Custom Views tab link. All navigation tree nodes in the lower-left navigation tree as well as all tabbed pane links and data available in the right pane are licensed.
Dashboard tab link	From the lower-left navigation area, click the Dashboard tab link. All navigation tree nodes in the lower-left navigation tree as well as all tabbed pane links and data available in the right pane are licensed.

Licensed Page/Link	How to Access
<ul style="list-style-type: none"> ■ Manager -> Status ■ Manager -> Logout ■ Queries -> URL Query ■ Dashboard -> Custom Views ■ Dashboard -> Set Custom Dashboard ■ Help -> Help Topics ■ Help -> Memory Information ■ Help -> About Oracle Application Dependency and Performance 	All drop-down menu items and sub-items, navigation bars, lower information bar (bottom of interface), and time frame modification features at the top of the Application Dependency and Performance user interface are licensed, including the accessible links from these drop-down menus.

Management Pack for Non-Oracle Middleware Restricted Use License

Management Pack for Non-Oracle Middleware includes the full capabilities of Enterprise Manager Cloud Control Service Level Management.

See [Enterprise Manager Cloud Control Service Level Management](#) in [Chapter 7](#) for more information.

Licensing for Business Transaction Management

The Management Pack for Non-Oracle Middleware includes Business Transaction Management (BTM) features only for Java EE, .NET, TIBCO, and web service components running in Microsoft .NET environments (BizTalk, ASP.NET, WCF), WebSphere, JBoss, DataPower, BusinessWorks, or Tomcat, as shown below.

BTM within Management Pack for Non-Oracle Middleware Application Dependency and Performance includes the following features:

Feature	Description
Closed-loop governance	Provisions performance report cards to UDDI v.3 compliant registries.
Contextual visibility into Java EE and .NET metrics	Provide drill-down contextual visibility into Java EE and .NET metrics.
Exception management	Provide transaction alerting and searching to locate exceptions and errors in transactions that span multiple application components.
Transaction discovery	Discover, record, and correlate transactions as they flow across components that may span multiple JVMs, containers, and platforms.
Transaction-level agreements	Provide transaction-level objectives (TLOs) that span multiple interacting components.

The following technologies are licensed for various categories under BTM within Management Pack for Non-Oracle Middleware:

Technology Category	Licensed Technology	
IBM WebSphere Application Server	<ul style="list-style-type: none"> ■ JAX-RPC ■ JDBC ■ EJB 	<ul style="list-style-type: none"> ■ JMS ■ Java
.NET	<ul style="list-style-type: none"> ■ ASP.NET ■ WCF 	<ul style="list-style-type: none"> ■ Microsoft Internet Information Services (IIS)
JBoss	<ul style="list-style-type: none"> ■ JAX-RPC ■ JDBC ■ EJB 	<ul style="list-style-type: none"> ■ JMS ■ Java
Closed-loop Enterprise Service Buses	<ul style="list-style-type: none"> ■ Tibco BusinessWorks 	<ul style="list-style-type: none"> ■ BizTalk (Adapters: SOAP, WCF, FILE, FTP)
Security Appliances	<ul style="list-style-type: none"> ■ IBM Datapower 	
Registries	<ul style="list-style-type: none"> ■ Microsoft UDDI 	

Business Transaction Management Restricted-use Licensing

Oracle includes a restricted-use license of Oracle Service Bus (and its subcomponents) for the express purpose of monitoring endpoints for Enterprise Manager Business Transaction Management, covering creation of Proxy and Business Service in pass-through mode only. Oracle Service Bus may be configured with the Business Transaction Management observer agent in single instance and an additional instance of Oracle Service Bus may be configured for Proxy failover purposes.

System Monitoring Plug-Ins for Non-Oracle Middleware

The Enterprise Manager System Monitoring Plug-ins for Non-Oracle Middleware provide performance and availability data collection, real-time and historical monitoring, event management/monitoring, notifications, and reporting for Non-Oracle Middleware.

The following plug-in for non-Oracle middleware is available:

- Oracle System Monitoring Plug-in for IBM WebSphere MQ

Features

The following features are available for these plug-ins:

- Real-time and historical performance monitoring and trending
- Event management/monitoring
- Event/alert notifications: notification methods, rules and schedules
- Event/alert history/metric history
- Metric extensions
- Blackouts/planned outages
- Monitoring templates
- Performance and event reports
- Repository tables and views that store or expose the above data
- Distributed management through groups and systems

To use the features above, you must license the System Monitoring Plug-in for Non-Oracle Middleware.

Licensed Links

Licensed Page/Link	How to Access
IBM WebSphere MQ Queue Manager plug-in	From the Enterprise Manager home page, click the Setup menu, then Agents . All links and subordinate pages of the IBM WebSphere MQ Queue Manager plug-in are licensed.

Licensed Command Line Interface (CLI) Verbs

The following command line interface (CLI) verb (as it relates to adding non-Oracle middleware) is licensed as part of the System Monitoring Plug-in for Non-Oracle Middleware:

- `add_target`

The internal names to be used with the `add_target` verb are:

- `wmq` (See note below.)
- `active_directory`
- `microsoft_dotnet`
- `microsoft_commerceserver`
- `microsoft_isaserver`
- `microsoft_exchange`

Note: For `wmq`, another jar file is needed after executing the `add_target` command. After adding the target, modify the jar path property from the "Monitoring Configuration link" by appending the following path:

```
/scratch/mqjars/com.ibm.mq.jar
```

Use a colon as a separator between the two jar files if the agent is Linux-based, and a semicolon if the Agent is Windows-based.

System Monitoring Plug-Ins for Non-Oracle Databases

The following plug-ins for non-Oracle databases are available:

- Oracle System Monitoring Plug-in for Microsoft SQL Server
- Oracle System Monitoring Plug-in for IBM DB2
- Oracle System Monitoring Plug-in for Sybase Adaptive Server Enterprise

Features

The following features are available for these plug-ins:

- Performance monitoring and trending
- Helpdesk (ticketing) and event connectors

- Metric alert management: metric history and associated drill-downs, alert history and associated drill-downs, event history and associated drill-downs
- Metric extensions
- Event/alert notifications: different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules
- Blackouts/planned outages
- Monitoring templates, template collections with administration groups, and metric extensions
- Performance and event reports
- Configuration Management: Configuration Collection Extensibility for licensed target types, Configuration Compare (not including the use of Comparison Templates), Configuration History, Configuration Instance Browser, Configuration Save, and Configuration Search for licensed target types
- Repository tables/views that store/expose the above data

To use these features, you must license the System Monitoring Plug-ins for Non-Oracle Database.

Licensed Links

The list that follows itemizes the links that require licensing of the plug-ins. You can navigate to these features in several ways. The list that follows assumes that you begin from the main Enterprise Manager Cloud Control home page.

From the **Cloud Control Home page**, click the menu item **Setup -> Add Target -> Add Targets Manually** in the upper right corner of the page. On this page, select the **Add Non-Host Targets by Specifying Target Monitoring Properties** option. The following selections from the Target Type drop-down menu are licensed features of the System Monitoring Plug-in for Non-Oracle Databases:

- Microsoft SQL Server
- IBM DB2 Database
- Sybase Adaptive Server Enterprise

Licensed Command Line Interface (CLI) Verbs

The following command line interface (CLI) verb is licensed as part of the System Monitoring Plug-in for Non-Oracle Databases:

- `add_target`

The internal names to be used with the `add_target` verb are:

- `microsoft_sqlserver_database`
- `ibm_db2_database`
- `sybase_ase`

Application Performance and Regression Testing

The Oracle Enterprise Manager Application Testing Suite provides automated functional testing, load testing, and test management for Web, packaged, and SOA-based applications as well as Oracle databases. The suite consists of the following separately licensed products in the Oracle Application Testing Suite:

- **Oracle Test Manager**

This product enables you to document and manage the overall test process, including test planning, test requirements, test cases, and issues.

- **Oracle Functional Testing**

This product enables you to automate functional and regression testing of Web applications, Oracle packaged applications like Siebel, Oracle E-Business Suite and Oracle Fusion applications and Web Services. It also allows you to automate applications based on Application Development Framework (ADF) and Oracle Databases.

- **Oracle Load Testing**

This product enables you to automate load testing of Web applications, Oracle packaged application like Siebel, Oracle E-Business Suite, Oracle Fusion applications and Web Services. It also allows you to automate applications based on Application Development Framework (ADF) and Oracle databases.

The following sections provide licensing information for each member of the suite.

Oracle Test Manager

Oracle Test Manager licensing is based on the Oracle Named User Plus (NUP) licensing model. One NUP license seat of Oracle Test Manager is required for each user of the product.

Oracle Functional Testing

As with Oracle Test Manager, Oracle Functional Testing licensing is also based on the Oracle Named User Plus (NUP) licensing model. One NUP license seat of Oracle Functional Testing is required for each user of the product.

OpenScript Component

The OpenScript component of Oracle Functional Testing is the interface where you create and run your test automation scripts, and does not require a separate license. If

you are licensed for Oracle Functional Testing, you can automatically access OpenScript and the base testing modules for Web Functional Testing and Web Load Testing script generation. Other application testing modules or accelerators developed for OpenScript may be licensed and priced separately.

Oracle Functional Testing Accelerators

Oracle Functional Testing Accelerators provide customized functionality to enable faster and easier automated functional testing for specific applications or technologies. These optional Accelerators are available for specific applications, and are handled as add-ons to the base Oracle Functional Testing licenses.

Each Accelerator requires an incremental NUP license added on to the Oracle Functional Testing base license for each user that requires the capabilities of a specific accelerator. You do not need to license the same number of NUP's for Functional Testing Accelerators as you would for Oracle Functional Testing. Oracle Functional Testing is simply a prerequisite for the Functional Testing accelerators, so you must purchase (or own) at least the equivalent number of NUP's of Oracle Functional Testing for Web Application before you can purchase NUP's for the accelerators.

The following Functional Testing Accelerators are currently available:

- **Functional Testing Accelerator for Web Services**

This Accelerator provides faster automated functional testing of Web Services by providing a custom module for creating Web Services scripts. This includes a Web Services wizard that enables you to create test scripts automatically from your WSDL files.

- **Functional Testing Accelerator for Siebel**

This Accelerator provides faster automated functional testing of Siebel CRM applications by providing specialized capabilities for creating Siebel functional test scripts. This is integrated with Siebel Test Automation's Component Automation Services (CAS) library to enable out-of-box testing of Siebel applications, including support for testing High Interactivity components. This Accelerator supports Siebel CRM version 7.7 and higher.

Functional Testing Accelerator for Siebel includes a restricted-use license for Siebel Test Automation Interfaces for use with Functional Testing Accelerator for Siebel only.

- **Functional Testing Accelerator for Oracle E-Business Suite**

This Accelerator provides automated functional and regression testing of Oracle E-Business Suite (EBS) applications and custom Oracle Forms applications. The accelerator provides support for both Web and Oracle Forms application interfaces to ensure application quality.

- **Functional Testing Accelerator for Oracle Application Development Framework**

This Accelerator provides automated functional and regression testing of applications created with the Oracle Application Development Framework (ADF). The accelerator provides support for both Web and ADF application interfaces to ensure the quality of your ADF-based custom applications and Oracle Fusion Applications.

Dependencies with Oracle Load Testing

The Oracle Application Testing Suite utilizes an integrated scripting platform for creating both automated functional testing and load testing scripts. This scripting platform comprises part of the Oracle Functional Testing product.

One license of Oracle Functional Testing is included with the Oracle Load Testing Controller to be used for creating automated test scripts for load testing. If you require additional script recorders for load test scripting or require functional testing capabilities, you must purchase separate additional licenses of Oracle Functional Testing.

Oracle Load Testing

The following licensed components are required for Oracle Load Testing:

- **Load Testing**

This component simulates the virtual users that generate a load against the application under test. Licensing for this component is based on the Oracle NUP licensing model. Each emulated human user or non-human operated device is considered a virtual user and is counted to determine the number of required NUP licenses. A minimum of 200 NUP licenses (200 virtual users) is required for the Oracle Load Testing component.

- **Load Testing Controller**

This component enables you to configure load test scenarios and server monitors, then view results. Licensing for this component is based on the Oracle Processor licensing model. A minimum of 1 Processor license for the Load Testing Controller is required for each deployment.

Oracle Load Testing Accelerators

Oracle Load Testing Accelerators provide customized functionality to enable faster and easier automated load testing for specific applications or technologies. These optional Accelerators are available for specific applications, and are handled as add-ons to the base Oracle Load Testing licenses.

Each Accelerator requires an incremental NUP license added on to the Oracle Load Testing base license for each virtual user that requires the capabilities of a specific accelerator. You do not need to license the same number of NUP's (VU's) for Load Testing Accelerators as you would for Oracle Load Testing. Oracle Load Testing is simply a prerequisite for the Load Testing accelerators, so you must purchase (or own) at least the equivalent number of NUP's (VU's) of Oracle Load Testing for Web Application before you can purchase NUP's (VU's) for the accelerators.

The following Load Testing Accelerators are currently available:

- **Load Testing Accelerator for Web Services**

This Accelerator provides faster load testing of Web Services by providing a custom module for creating Web Services scripts. You can load test your Web Services by simulating concurrent virtual user clients accessing Web Service interfaces.

- **Load Testing Accelerator for Siebel**

This Accelerator provides faster load testing of Siebel CRM applications by providing specialized capabilities for creating Siebel load test scripts. You can load

test your Siebel applications by simulating thousands of concurrent users running Siebel Web transactions.

This Accelerator is integrated with Siebel Test Automation's load test correlation library, and supports Siebel CRM version 7.7 and higher (including 8.x versions).

Load Testing Accelerator for Siebel includes a restricted-use license for Siebel Test Automation Interfaces for use with Load Testing Accelerator for Siebel only.

- **Load Testing Accelerator for Oracle E-Business Suite**

This Accelerator enables you to simulate thousands of virtual users accessing your Oracle E-Business Suite applications or custom Oracle Forms applications simultaneously to measure the effect of the load on application performance. The Accelerator provides support for both Web and Oracle Forms application interfaces and protocols.

- **Load Testing Accelerator for Oracle Application Development Framework**

This Accelerator enables you to test the performance of your Oracle Application Development Framework (ADF) applications. The accelerator provides support for both Web and ADF application interfaces to ensure the performance and scalability of your ADF-based custom applications and Oracle Fusion Applications.

- **Load Testing Accelerator for Oracle Database**

This Accelerator enables you to perform direct load testing of Oracle Database using synthetic test scripts. You can also automatically generate test scripts by importing database transactions from Real Application Testing's Database Replay capture files, or by importing them from other text files containing SQL and PL/SQL statements. You can then run the test scripts across thousands of concurrent virtual users in Oracle Load Testing.

Dependencies with Oracle Functional Testing

See "[Dependencies with Oracle Load Testing](#)".

Oracle Load Testing Developer Edition

The Oracle Load Testing Developer Edition is a bundled solution that includes 2 Processor licenses of Oracle Load Testing Controller and 10 NUP (virtual user) licenses of Oracle Load Testing. This solution is intended for running small load tests to enable developers to test application performance during development. You cannot upgrade this edition to a full Oracle Load Testing configuration by adding more virtual users.

Restricted Use Licenses Provided with Application Testing Suite

A restricted use license of **BI Publisher** is included for users to run reports provided with Oracle Load Testing and Oracle Test Manager and modify provided layouts. A full-use license of BI Publisher is required for creating new reports.

A restricted use license of **Oracle Weblogic Server** is provided with Oracle Load Testing and Oracle Test Manager for use as the back-end application server for these products.

A restricted use license of **Oracle Database 11g Enterprise Edition** is provided with Oracle Load Testing and Oracle Test Manager for use as the back-end database server for these products.

End User Monitoring

Enterprise Manager offers the following management packs for End User Monitoring:

- [Oracle Real User Experience Insight](#)
- [Enterprise Manager Cloud Control Service Level Management](#)

Oracle Real User Experience Insight

Oracle Real User Experience Insight (RUEI) enables enterprises to maximize the value of their business-critical applications by delivering insight into real end-user experiences. It can help identify lost revenue from frustrated users, reduce support costs by lowering call center volumes, accelerate problem resolution of poorly performing applications, and help businesses adapt to changing needs by providing insight into business trends and user preferences. It integrates performance analysis and usage analysis into a single offering, enabling business and IT stakeholders to develop a shared understanding of their application users' insight experience.

Capabilities

Oracle Real User Experience uniquely captures a complete picture of the end-user experience and behavior, including:

- Actual user-experience response time for key system transactions
- Synthetic transaction-based monitoring
- Complete quality of experience, including system and application errors and user-created errors
- Comprehensive perspective of application utilization — which transactions are used by which end-users, which are the most problematic and why, and so forth

RUEI's passive monitoring capability is built using state-of-the-art Network Protocol Analysis technology, which does not require any modification, changes, or instrumentation of the application. Its passive monitoring approach allows enterprises to deploy in production, without requiring costly test/QA environment validations.

Features

Oracle Real User Experience Insight includes the following features:

Feature	Description
Application/Suite/Service modeling	Model critical application environment by domain, URL and argument filtering based on a wide range of supported protocols.

Feature	Description
Complete user experience monitoring	Monitor all request and responses between a defined application environment and an end-user, determine usage, performance, and service level compliance.
Customized Reports and Dashboard	Dynamically group and filter data sets, apply filters and combine data points to generate graphs and tables that can be stored, printed, e-mailed, published in dashboards and share reports and data as exports in various formats.
Enriched Data Exchange	Store all monitored data in structured Db tables to allow for external data integration and or exposure to custom reporting tools.
Key Performance Indicators (KPI) tracking and reporting	Set thresholds to metrics, add conditions and filters to identify anomalies and establish trendline data.
User flow modeling	Model critical business functions that end users have to go through as a predefined 'click-path'.
User Session Diagnostics and Session Replay	Report, review and replay entire user sessions from a clickstream perspective, store and share related raw and structured data.

Oracle Real User Experience Insight Licensed Links

All of the pages in Oracle Real User Experience Insight (RUEI) are licensed features of RUEI and require the pack license, with exception of the links described below.

The following information describes the links in RUEI that have been included as part of the license of one of Oracle Enterprise Management Application Management Suites:

- From main console of Real User Experience Insight, go to main (tabbed) navigation pane on top, choose **Configuration**. Then from main navigation panel on the left, go to Applications and select **Suites**.
- On the Suites Configuration page, a wizard can be accessed through the link **New Suite**. On the second page of the wizard, a Suite Type has to be selected. The following Suite Types are part of the license of the mentioned Oracle Enterprise Management Application Management Suites:

Suite Type	Required license Pack
Siebel	Oracle Enterprise Manager Application Management Suite for Siebel
E-Business Suite	Oracle Enterprise Manager Application Management Suite for Oracle E-Business Suite
JD Edwards	Oracle Enterprise Manager Application Management Suite for JD Edwards EnterpriseOne
Fusion framework	Oracle Enterprise Manager Application Management Suite for Oracle Fusion Applications

The mentioned links can only be used when the mentioned Oracle Enterprise Management Application Management Suite pack has been licensed.

Note: Suite Type E-Business Suite can be used for monitoring standalone Oracle Forms applications that are not considered part of Oracle E-Business Suite. If this applies the Suite Type E-Business Suite may be considered part of Oracle Real User Experience Insight and does not require a license for Oracle Enterprise Manager Application Management Suite for Oracle E-Business Suite.

This information includes all feature links that may contain information derived from the creation of a Suite in RUEI, that is considered part of Oracle Enterprise Manager Application Management Suites.

Note: Any and all methods of accessing pack functionality — whether through Oracle Enterprise Manager Cloud Control 12c, Desktop Widgets, command-line APIs, or direct access to the underlying data — require the Pack license.

Customers who previously licensed the standalone accelerators for RUEI can continue to use RUEI under their previously licensed terms. However, they are not entitled to use the capabilities contained in any of the mentioned Oracle Enterprise Management Application Management Suites.

Additionally, RUEI includes the full capabilities of Enterprise Manager Cloud Control Service Level Management.

Restricted Use Licenses Provided with Oracle Real User Experience Insight

A restricted use license of Business Intelligence Publisher is included for users to run reports on the Real User Experience Insight (RUEI) repository and to modify provided layouts.

Additional database options or additional servers for disaster recovery require separate licensing. Customers receive one single-instance database with the RUEI repository. In a scaled deployment of Oracle Real User Experience Insight, where multiple RUEI processing engines are deployed, customers receive a single-instance database per engine. To protect the repository with Data Guard, customers need to purchase a license for the standby site. To protect the repository with Oracle Real Application Clusters, customers must license the second node for the database, and both nodes require an Oracle Real Application Clusters license.

The use of the RUEI repository for the Enriched Data Export Facility feature is included in the license. If the Enriched Data Exchange feature is configured to store data to separate database instance, not part of the RUEI repository, these nodes require an Oracle Database license.

Enterprise Manager Cloud Control Service Level Management

Enterprise Manager Cloud Control Service Level Management (SLM) offers a rich monitoring solution that helps IT organizations achieve high availability and performance, and optimized service levels for their business services. SLM actively monitors and reports on the availability and performance of services, including end-user business functions, Web applications, and infrastructure components. Using service tests or synthetic transactions executed from remote user locations (beacons), businesses can monitor services from the end-users' perspectives and the services'

correlation to the underlying IT infrastructure. In addition, SLM assesses the business impact of any service problem or failure, and indicates whether service level goals have been met.

Enterprise Manager Cloud Control Service Level Management was introduced as a standalone Service Level Management Pack with Enterprise Manager version 10g release 2. Since Enterprise Manager 11g, Service Level Management is licensed as part of either:

- Oracle Real User Experience Insight
- Weblogic Server Management pack Enterprise Edition
- SOA Management Pack Enterprise Edition
- Management Pack for Non-Oracle Middleware
- Business Intelligence Management Pack
- Management Pack Plus for Identity Management

A subset of functionality in the Service Level Management Pack was previously included as part of the Diagnostics Pack for Application Server license. Customers who had licensed the Diagnostics Pack for Application Server 10g Release 1 are entitled to continue to use the following specific functionality without licensing any of the packs above:

- Web Application service test monitoring with HTTP and HTTPS protocols (test type itself has been deprecated, existing tests will continue to work)
- Host monitoring with ping protocol

Features

Enterprise Manager Cloud Control Service Level Management includes the following features:

Feature	Description
Beacons	Measure availability and performance from representative key user locations.
Complete service monitoring	Monitor service availability, performance, usage, and service level compliance.
Service Dashboards	Provide the ability to set up and store selections of Services and report them via the Service Dashboard page and detail page, allowing for direct review or mailing of the dashboard.
Service modeling	Model critical business functions based on a wide range of supported protocols.

Enterprise Manager Cloud Control Service Level Management Licensed Links

The following information describes the Enterprise Manager links that require licensing of SLM. This information does not include feature links that may contain information derived from the creation of tests and beacons, but are considered part of SLM. The list that follows assumes that you begin from the main Cloud Control home page.

Services Links

Licensed services links consist of configuration pages and monitoring pages.

- For configuration pages, from the Enterprise Manager home page, select the **Targets** menu, then **Services**:
 - On the Services page, as part of the Generic Service creation **Service Test** step, defining a service’s availability based on the execution of a service test is a licensed feature of Oracle Real User Experience Insight (RUEI).
 - On the Services page, as part of the Generic Service creation, the **Beacons page** is a licensed feature of RUEI.
 - On the Services page, click any **Name** link (except for Aggregate Service) in the table. On the Service page that appears, select the **Monitoring Configuration** sub-tab. The **Service Tests and Beacons** link on the Monitoring Configuration page is a licensed feature of RUEI.
 - On the Services page, click either the **Name** link of a Generic Service or Forms Application in the table. On the Service page that appears, select the **Monitoring Configuration** sub-tab. On the Monitoring Configuration page, the **Enable Forms Transaction Monitoring** link is a licensed feature of RUEI.
 - On the Monitoring Configuration page, select **Availability Definition**. Select **Service Test** from the drop-down list on the **Availability Definition** page. Defining a service’s availability based on the execution of a service test is a licensed feature of RUEI.
- For monitoring pages, from the Enterprise Manager home page, select the **Targets** menu, then **Services**:
 - On the Services page, select a service **Name** link in the table. On the Service page that appears, the **Test Performance** sub-tab and **Black Out** button are licensed features of RUEI.
 - On the Services page, select a service **Name** link in the table. On the Service page that appears, select the **Test Performance** sub-tab. All links and controls on this page are licensed as part of RUEI.
- The following **Related Links** are also part of RUEI:
 - Alert History
 - Blackouts
 - Metric Baselines
 - Past Changes
 - Pending Changes (where applicable)

Forms Application Links

Licensed services links consist of configuration pages and monitoring pages.

- For configuration pages, from the Enterprise Manager home page, select the **Targets** menu, then **Services**:
 - On the Services page, select **Forms Application** from the drop-down list and click **Go**. Select **Service Test** from the drop down-menu on the **Availability** page of the Create Forms Application wizard. Defining a form application’s availability based on the execution of a service test is a licensed feature of Oracle Real User Experience Insight (RUEI).
 - On the Services page, select **Forms Application** from the drop-down list and click **Go**. The **Beacons page** of the Create Web Application wizard is a licensed feature of RUEI.

- On the Services page, click any **Forms Application Name** link, then select the **Monitoring Configuration** sub-tab. The **Service Tests and Beacons** link in the **Generic Tasks** section of the Monitoring Configuration page is a licensed feature of RUEI.
- On the Monitoring Configuration page, select **Availability Definition** from the **Generic Tasks** section. The **Service Test** choice from the drop-down list on the **Availability Definition** page is a licensed feature of RUEI.
- For monitoring pages, from the Enterprise Manager home page, select the **Targets** menu, then **Services**:
 - On the Services page, click a **Forms Application Name** link in the table to go to the Forms Application Home page. The **Test Performance** link and **Black Out** button are licensed features of RUEI.
- The following Related Links are also part of RUEI:
 - Alert History
 - Blackouts
 - Metric Baselines
 - Past Changes
 - Pending Changes (where applicable)

Licensed Command Line Interface (CLI) Verbs

The following Enterprise Manager CLI verbs are licensed as part of Enterprise Manager Cloud Control Service Level Management:

add_beacon	extract_template
apply_template_tests	remove_beacon
assign_test_to_target	set_availability
delete_test	set_key_beacons_and_tests
disable_test	sync_beacon
enable_test	

Application Management

The following section in this chapter describe the licensed features and access points of the Application products available for Oracle Enterprise Manager:

- [Application Management Suite for Siebel](#)
- [Application Management Pack for Fusion Applications](#)
- [Application Management Suite for Fusion Applications](#)
- [Application Management Suite for Oracle E-Business Suite](#)
- [Application Management Suite for JD Edwards EnterpriseOne](#)

The following sections in this chapter describe the licensed features for these products.

Application Management Suite for Siebel

This product offers comprehensive application management capabilities that help IT organizations simplify the administration and monitoring of their Siebel Enterprise environments. The Application Management Suite for Siebel is composed of the following physical components:

- Siebel Plug-in (built into Enterprise Manager Cloud Control 12c)
- Oracle Real User Experience Insight (RUEI)

The management suite contains a restricted use license of RUEI for use against the core Siebel application. The management suite also includes a restricted use license of Siebel Test Automation (STA) for running synthetic transaction monitoring scripts. The STA license does not cover the use of test automation tools to carry out functional nor load tests against the Siebel application.

Siebel Diagnostic Tool, a standalone utility released with the Siebel Media Pack since Siebel 8.0, is licensed as part of Oracle Application Management Suite for Siebel. All features and capabilities of this tool require the Oracle Application Management Suite for Siebel license.

The following sections discuss the licensed features and links for the Application Management Suite for Siebel as well as the Service Level Management and Configuration Management licensed features and links within this product.

Features

The Application Management Suite for Siebel includes the following features:

Feature	Description
Automatic discovery	Discover Siebel components. Create system and services targets with all of the associated infrastructure components
Blackouts	Suspend monitoring on targets to support scheduled maintenance periods.
Configuration management	Track configuration parameters, take configuration snapshots, and compare configurations
Event log analysis	Find relevant log files to troubleshoot problems faster.
Java Diagnostics for Java EE-based Siebel Component	Comprehensive diagnostics of the Java problem at the JVM level.
Management Connectors	Helpdesk (ticketing) connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems.
Metric and Alert/Event History	View metric and alert/event history and its associated details.
Metric Extensions	Create new metrics to monitor conditions specific to customer environments.
Monitoring and diagnostics	Receive real-time metrics, historical data, and alerts. Examine log files and analyze SARM data.
Monitoring Templates and Template Collections	Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group.
Notifications	Define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules.
Oracle HTTP Server	Monitoring the health of the Oracle HTTP Server
Real user monitoring	Obtain comprehensive insights on how end-users use the application and the experience that is delivered.
Service level management	Monitor Siebel applications using beacon transactions and service dashboards.
Workflow process and policy monitoring	Identify the first indication of problems before they cause major disruptions to business processing

Real User Monitoring

Application Management Suite for Siebel's Real User Monitoring provides an out-of-the-box real-user monitoring solution for Siebel applications that automatically discovers Siebel applications and translates network objects to business functions, thereby allowing measurement and monitoring of real-user transactions — from clicks to views into business transactions.

Each individual user action is automatically matched to the correct screen, applet, or view to provide contextual analyses. This state-of-the-art monitoring solution captures and reports all functional errors, discovers end-user performance issues, and discovers Siebel application issues. Application managers can set up Key Performance Indicators (KPIs) and report views of interest of their critical packaged applications.

All the capabilities for Oracle Real User Experience Insight as documented in [Chapter 7, "End User Monitoring"](#) are available as part of the Application

Management Suite for Siebel license. However, the restricted license for Real User Experience Insight only allows RUEI to be used for monitoring Siebel applications developed using the Siebel Smart Client (HI - High Interactivity), Standard Interactivity (SI), or ADF framework for Siebel self-service applications. Customers who want to use Real User Experience Insight to monitor other applications need to obtain a full use license of the product.

Features

- Provides an out-of-the-box real-user monitoring solution for Siebel applications.
- Provides out-of-box translation and reporting of error messages in the user's window.
- Enables application managers to set up KPIs for critical packaged applications.
- Enables specification and monitoring of real-user business transactions.

Licensed Links for Siebel

The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for Siebel.

Licensed Page/Link	How to Access
Siebel System Targets page	From the Enterprise Summary home page, click the Targets menu, then Siebel . Select Enterprise from the View drop-down list. This page is a licensed feature of the Application Management Suite for Siebel.
Add Siebel Enterprise page	From the Enterprise Summary home page, click the Targets menu, then Siebel . Select Enterprise from the View drop-down list. From the Siebel System Targets page, click Add Siebel Enterprise . This page and all subsequent pages within the process are licensed features.
Siebel Enterprise Home	From the Enterprise Summary home page, click the Targets menu, then Siebel . Select Enterprise from the View drop-down list. From the Siebel System Targets page, select a link for a Siebel Enterprise . This page and all subsequent pages accessed through the Home Page are licensed features.
Siebel Server Home	From the Enterprise Summary home page, click the Targets menu, then Siebel . Select Enterprise from the View drop-down list. From the Siebel System Targets page, select a link for a Siebel Server . This page and all subsequent pages accessed through the Home Page are licensed features.
Siebel Enterprise resultant page	From the Enterprise Summary home page, click the Targets menu, then Systems . On the Systems page, click the link in the Name column for a system with Type of Siebel Enterprise . The resultant page contents are licensed features.
Siebel Gateway Server Home Page	From the Enterprise Summary home page, click the Targets menu, then All Targets . On the All Targets page, click on Siebel Gateway Server under Applications. The resultant page contents are licensed features.
Siebel Component Page	From the Enterprise Summary home page, click the Targets menu, then All Targets . On the All Targets page, click on Siebel Component under Applications. The resultant page contents are licensed features.

Licensed Page/Link	How to Access
Siebel Database Repository Page	From the Enterprise Summary home page, click the Targets menu, then All Targets . On the All Targets page, click on Siebel Database Repository under Applications. The resultant page contents are licensed features.

Service Level Management

Features associated with Enterprise Manager Cloud Control Service Level Management (SLM) are also licensed as part of the Oracle Application Management Suite for Siebel. These SLM features are restricted for use with Siebel applications and only for the CPUs licensed. They cannot be used for extensions to Siebel. Extensions include but are not limited to custom forms, JSPs, Java/J2EE code, and integrations using BPEL.

SLM actively monitors and reports on the availability and performance of services, including end-user business functions, applications, and infrastructure components. In addition, SLM assesses the business impact of any service problem or failure and indicates whether service-level goals have been met.

See [Enterprise Manager Cloud Control Service Level Management](#) in [Chapter 7](#) for more information.

Licensed Command Line Interface (CLI) Verbs

The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for Siebel:

- `emcli apply_template_tests`
- `emcli create_service`
- `emcli add_target`

Configuration Management

Configuration management automates the process of managing host software and hardware configurations and deployments. The configuration management features that are licensed as part of the Oracle Application Management Suite for Siebel provides capabilities such as search and compare across all systems, configuration monitoring, policy management and compliance support, security configuration scoring and dashboards, and comprehensive reporting for Siebel-specific software components, which include:

- | | |
|-----------------------------------|-------------------------------------|
| ■ Siebel Enterprise | ■ Siebel Functional Component Group |
| ■ Siebel Server | ■ Siebel Database Repository |
| ■ Siebel Component Group | ■ Siebel Gateway Server |
| ■ Siebel Component | ■ Siebel Application Service (HI) |
| ■ Siebel Required Component Group | ■ Siebel Application Service (SI) |

Configuration Management features of the Application Management Suite for Siebel enable users to:

- View and analyze configuration
- View and analyze deployments/installations
- Search configuration

- Compare configuration
- Manage policies, including policy notifications
- Provide configuration reports
- Provide repository tables/views that store/expose configuration data

Additional Licensed Configuration Management Capabilities

Application Management Suite for Siebel provides comprehensive configuration management capabilities for operating system targets and Siebel application targets as specified above.

Licensed Links

The following licensed pages and links of this product apply to Siebel-specific targets within Enterprise Manager. These targets include Siebel Enterprise, Siebel Server, Siebel Component Group, Siebel Component, Siebel Required Component Group, Siebel Functional Component Group, Siebel Database Repository, Siebel Gateway Server, Siebel Application Service (HI), and Siebel Application Service (SI).

Licensed Page/Link	How to Access
All Targets Policy Violations links	From the Enterprise Summary page, all links in the All Targets Policy Violations section are licensed.
Hardware and Operating System related information	From the Enterprise Summary page, all Hardware and Operating System related information in the Deployment Summary section are licensed. From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all Hardware and Operating System related information in the Deployment Summary section are licensed. From the Groups home page, click the Administration tab. All Hardware and Operating System related information in the Deployment Summary section are licensed.
Security Policy Violations links	From the Enterprise Summary page, all links in the Security Policy Violations section are licensed.
Configuration section links	From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all links in the Configuration section are licensed.
Client Configuration section links	From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all links in the Client Configuration section are licensed.
Policy Violation page links	From the Enterprise Summary home page, click the Compliance menu, then Policies . On the Policy Violations page, all links, sub-navigation tabs, and features available on or linked to from the Cloud Control Policies Violations page for information related to hosts are licensed.
Security at a Glance host links	From the Enterprise Summary home page, click the Compliance menu, then Security at a Glance . On the Security at a Glance page, all links related to information on the host are licensed.
Policy Violations link and Compliance Score (%)	From the Enterprise Summary home page, click the Targets menu, then Hosts . On the Hosts page, these links are licensed.

Licensed Page/Link	How to Access
Configuration section links, Policy Violations section links, Security section links, Deployments link, and Metric and Policy Settings link (Related Links)	From the Hosts page, click a specific host to display the Host Home page. These links are licensed.
Configuration page	From the Host page, click the Configuration tab. All features, links, and information on the page are licensed.
Policy Violations link	From the Enterprise Summary home page, click the Targets menu, then Systems . On the Systems page, this link is licensed. From the Enterprise Summary home page, click the Targets menu, then Groups . On the Groups page, this link is licensed.
Configuration Changes, Policy Violations, Security Policy Violations sections	From the Enterprise Summary home page, click the Targets menu, then Groups . Select a group. On the Group Home page, all links in these sections are licensed.
Configuration Searches for host and operating system	From the Groups home page, click the Administration tab. This feature is licensed.
Policy Violations column	From the Groups home page, click the Members tab. All links and information in this column is licensed

Licensed Reports

The following reports are part of the licensed features of Configuration Management within the Application Management Suite for Siebel. All reports in each of these sections are features of Configuration Management within the Application Management Suite for Siebel. To display the Report Definitions page, click the **Reports** menu on the Enterprise Summary home page.

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

Licensed Repository Views

The following repository views are licensed features of Configuration Management within the Application Management Suite for Siebel:

Policy Definition Views	Policy Association Views
mgmt\$policies	mgmt\$target_policies
mgmt\$policy_parameters	mgmt\$target_policy_settings
mgmt\$policy_violation_ctxt	mgmt\$target_policy_eval_sum
mgmt\$policy_viol_annotations	mgmt\$target_compliance_score
mgmt\$policy_viol_notif_log	

Policy Violation Views

mgmt\$policy_violation_current
 mgmt\$policy_violation_history
 mgmt\$policy_violation_context

Configuration Views

mgmt\$db_tablespaces
 mgmt\$db_datafiles
 mgmt\$db_controlfiles

Oracle Home Patching

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

Linux Patching

MGMT\$HOSTPATCH_HOSTS
 MGMT\$HOSTPATCH_GROUPS
 MGMT\$HOSTPATCH_GRP_COMPL_HIST
 MGMT\$HOSTPATCH_HOST_COMPL

Security Views

MGMT\$ESA_ALL_PRIVS_REPORT	MGMT\$ESA_EXMPT_ACCESS_REPORT
MGMT\$ESA_ANY_DICT_REPORT	MGMT\$ESA_KEY_OBJECTS_REPORT
MGMT\$ESA_ANY_PRIV_REPORT	MGMT\$ESA_OH_OWNERSHIP_REPORT
MGMT\$ESA_AUDIT_SYSTEM_REPORT	MGMT\$ESA_OH_PERMISSION_REPORT
MGMT\$ESA_BECOME_USER_REPORT	MGMT\$ESA_POWER_PRIV_REPORT
MGMT\$ESA_CATALOG_REPORT	MGMT\$ESA_PUB_PRIV_REPORT
MGMT\$ESA_CONN_PRIV_REPORT	MGMT\$ESA_SYS_PUB_PKG_REPORT
MGMT\$ESA_CREATE_PRIV_REPORT	MGMT\$ESA_TABSP_OWNERS_REPORT
MGMT\$ESA_DBA_GROUP_REPORT	MGMT\$ESA_TRC_AUD_PERM_REPORT
MGMT\$ESA_DBA_ROLE_REPORT	MGMT\$ESA_WITH_ADMIN_REPORT
MGMT\$ESA_DIRECT_PRIV_REPORT	MGMT\$ESA_WITH_GRANT_REPORT

Client Configuration Views

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

Java EE-based Siebel Components

You can only use the following pages against Java EE-based Siebel Servers running Siebel self-service applications. You must obtain a full use license of the Oracle Middleware Management Pack to manage custom applications running on Java EE containers.

- All pages in Oracle JVM Diagnostics are licensed features of Application Management Suite for Siebel.
- All pages in WebLogic Server are licensed features of the Application Management Suite for Siebel.
- All pages in the OC4J-based Oracle Internet Application Server are licensed features of the Application Management Suite for Siebel.

Oracle HTTP Server

You can only use the following pages against Oracle HTTP Servers, which are front ending Siebel applications. You must obtain a full use license of the Oracle Middleware Management Pack to manage Oracle HTTP Servers, which are used for other purposes.

- All pages in Oracle HTTP Server home page and subsequent pages within the process are licensed features of Application Management Suite for Siebel.

Application Management Pack for Fusion Applications

This product offers comprehensive application management capabilities that help IT organizations simplify the administration and monitoring of their Fusion Application environments. The Application Management Pack for Fusion Applications provides features under four different categories:

- Discovery and Monitoring
- Applications Performance Management
- Middleware Management
- Technical Configuration Management
- Life Cycle Automation

Fusion Applications Control, a standalone utility released with the Fusion Applications, is licensed as part of Oracle Application Management Pack for Fusion Applications. All features and capabilities of this tool require the Oracle Application Management Pack for Fusion Applications.

The following sections discuss the licensed features and links for the Application Management Pack for Fusion Applications as well as the Service Level Management licensed features and links within this product.

Features

The Application Management Pack for Fusion Applications includes the following features:

Feature	Description
Automatic discovery	Discover Fusion applications and underlying Fusion Middleware topology. Create system and services targets with all of the associated infrastructure components.
Backup and recovery	Make backups of Fusion Applications and related Database configurations. Restore configurations from the backup.
Blackouts	Suspend monitoring on targets to support scheduled maintenance periods.
Configuration management	Track configuration parameters, take configuration snapshots, and compare configurations.
Java Diagnostics	Comprehensive diagnostics of the Java problem at the JVM level.
Log analysis	Find relevant log files to troubleshoot problems faster.
Management Connectors	Helpdesk (ticketing) connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems.
Metric and Alert/Event History	View metric and alert/event history and its associated details.
Metric Extensions	Create new metrics to monitor conditions specific to customer environments.
Monitoring	Receive real-time metrics, historical data, and alerts for Fusion applications and Fusion Middleware targets.
Monitoring Templates and Template Collections	Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group.
Notifications	Define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules.
Problem Flow Analysis	Diagnose and identify the root cause of the Fusion Applications incidents.
Scale Out	Create Fusion Applications Instance from an existing Instance or add more WebLogic servers to existing WebLogic clusters.
Service level management	Monitor Fusion applications using beacon transactions and service dashboards.
Support Workbench	Monitor and analyze the Fusion Applications specific diagnostic incidents and send the diagnostic information to Oracle Support through My Oracle Support (MOS) integration.
Topology Viewer	Graphically view the Fusion Applications deployment from Configuration and Runtime routing perspective. This also provides high level information about health of various Fusion Application targets.

Licensed Links for Applications Management Pack for Oracle Fusion Applications

The following information describes the Enterprise Manager links that require licensing of the Application Management Pack for Oracle Fusion Applications:

Licensed Page/Link	How to Access
Fusion Instance page	From the Enterprise Summary home page, click the Targets menu, then Fusion Applications . This page and all related links in this page are licensed.
Add Fusion Instance page	From the Enterprise Summary home page, click the Targets menu, then Fusion Applications . From the Fusion Instance page, click Add Fusion Instance . This page and all subsequent pages within the process are licensed features.
Fusion Instance Home	From the Enterprise Summary home page, click the Targets menu, then Fusion Applications . From the Fusion Instance page, select a link for a Fusion Instance . This page and all subsequent pages accessed through the Home Page are licensed features.
Fusion Product Family Home	From the Enterprise Summary home page, click the Targets menu, then Fusion Applications . From the Fusion Instance page, expand any Fusion Instance and click on any Fusion Product Family link. This page and all subsequent pages accessed through the Home Page are licensed features.
Fusion Product Home	From the Enterprise Summary home page, click the Targets menu, then Fusion Applications . From the Fusion Instance page, expand any Fusion Instance and click on any Fusion Product link . This page and all subsequent pages accessed through the Home Page are licensed features.
Middleware	From the Enterprise Summary home page, click the Targets menu, then Middleware . Any Oracle Fusion Middleware links related to Fusion Applications deployment are licensed feature of the Application Management Pack for Fusion Applications.

Service Level Management

Features associated with Enterprise Manager Cloud Control Service Level Management (SLM) are also licensed as part of the Oracle Application Management Pack for Fusion Applications. These SLM features are restricted for use with Fusion applications and only for the CPUs licensed.

SLM actively monitors and reports on the availability and performance of services, including end-user business functions, applications, and infrastructure components. In addition, SLM assesses the business impact of any service problem or failure and indicates whether service-level goals have been met.

See [Enterprise Manager Cloud Control Service Level Management](#) in [Chapter 7](#) for more information.

Licensed Command Line Interface (CLI) Verbs

The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Pack for Fusion Applications:

```
emcli apply_template_tests
emcli create_service
emcli add_target
```

Middleware Management

The Application Management Pack for Fusion Applications includes many of the capabilities included in [WebLogic Server Management Pack Enterprise Edition](#) and

[SOA Management Pack Enterprise Edition](#), as described in [Chapter 3, "Oracle Middleware Enterprise Management"](#).

Note that the licensing for “Business Transaction Monitoring (BTM)” functionality, a component of WebLogic Management Pack Enterprise Edition and SOA Management Pack Enterprise Edition, is excluded from this license. Customers who wish to use BTM for the management of Fusion Applications should refer to [Application Management Suite for Fusion Applications](#).

The use of WebLogic Management Pack Enterprise Edition and SOA Management Pack Enterprise Edition is limited to the management and monitoring of Fusion Applications, and any targets that host or execute Fusion Application components. Customers who want to use either pack to monitor other applications need to obtain a full-use license of the product(s).

Please refer to [Chapter 3, "Oracle Middleware Enterprise Management"](#) for a detailed explanation of features, capabilities, and licensed links.

Configuration Management

Configuration management automates the process of managing host software and hardware configurations and deployments. Application Management Pack for Fusion Applications provides only technology related configuration management support. The configuration management features that are licensed as part of this license provides capabilities such as search and compare across all systems, configuration monitoring, policy management and compliance support, security configuration scoring and dashboards, and comprehensive reporting for Fusion-specific software components, which include:

-
- | | |
|--|------------------------------|
| ■ Oracle Fusion Instance | ■ Oracle WebLogic Server |
| ■ Oracle Fusion Product Family | ■ Oracle HTTP Server |
| ■ Oracle Fusion Product | ■ Cluster J2EE Application |
| ■ Oracle Fusion Cluster J2EE Application | ■ J2EE Application |
| ■ Oracle Fusion J2EE Application | ■ Fusion Database Repository |
| ■ Oracle WebLogic Cluster | ■ Java Virtual Machine |
-

Configuration Management features of the Application Management Pack for Fusion Application enable users to:

- View and analyze configuration
- View and analyze deployments/installations
- Search configuration
- Compare configuration
- Manage policies, including policy notifications
- Provide configuration reports
- Provide repository tables/views that store/expose configuration data

Additional Licensed Configuration Management Capabilities

Application Management Pack for Fusion Applications provides comprehensive configuration management capabilities for operating system targets and Fusion application targets as specified above.

Licensed Links

The following licensed pages and links of this product apply to Fusion-specific targets within Enterprise Manager. These targets include Fusion Instance, Fusion Product Family, Fusion Product, Fusion Cluster J2EE Application, Fusion J2EE Application, Fusion Database Repository, WebLogic Cluster, WebLogic Server, Java Virtual Machine, Cluster J2EE Application and J2EE Application.

Licensed Page/Link	How to Access
All Targets Policy Violations links	From the Enterprise Summary page, all links in the All Targets Policy Violations section are licensed.
Hardware and Operating System related information	From the Enterprise Summary page, all Hardware and Operating System related information in the Deployment Summary section are licensed. From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all Hardware and Operating System related information in the Deployment Summary section are licensed. From the Groups home page, click the Administration tab. All Hardware and Operating System related information in the Deployment Summary section are licensed.
Security Policy Violations links	From the Enterprise Summary page, all links in the Security Policy Violations section are licensed.
Configuration section links	From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all links in the Configuration section are licensed.
Client Configuration section links	From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all links in the Client Configuration section are licensed.
Configuration section links, Policy Violations section links, Security section links, Deployments link, and Metric and Policy Settings link (Related Links)	From the Hosts page, click a specific host to display the Host Home page. These links are licensed.
Policy Violations link	From the Enterprise Summary home page, click the Targets menu, then Systems . On the Systems page, this link is licensed. From the Enterprise Summary home page, click the Targets menu, then Groups . On the Groups page, this link is licensed.
Security at a Glance host links	From the Enterprise Summary home page, click the Compliance menu, then Security at a Glance . On the Security at a Glance page, all links related to information on the host are licensed.
Policy Violations link and Compliance Score (%)	From the Enterprise Summary home page, click the Targets menu, then Hosts . On the Hosts page, these links are licensed.
Configuration page	From the Host page, click the Configuration tab. All features, links, and information on the page are licensed.
Policy Violation page link	From the Enterprise Summary home page, click the Compliance menu, then Policies . On the Policy Violations page, all links, sub-navigation tabs, and features available on or linked to from the Cloud Control Policies Violations page for information related to hosts are licensed.
Configuration Changes, Policy Violations, Security Policy Violations sections	From the Enterprise Summary home page, click the Targets menu, then Groups . Select a group. On the Group Home page, all links in these sections are licensed.

Licensed Page/Link	How to Access
Configuration Searches for host and operating system	From the Groups home page, click the Administration tab. This feature is licensed.
Policy Violations column	From the Groups home page, click the Members tab. All links and information in this column is licensed.

Licensed Reports

The following reports are part of the licensed features of Configuration Management within the Application Management Pack for Fusion Applications. All reports in each of these sections are features of Configuration Management within the Application Management Suite for Fusion Applications. To display the Report Definitions page, click the **Reports** menu on the Enterprise Summary home page.

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

Licensed Repository Views

The following repository views are licensed features of Configuration Management within the Application Management Pack for Fusion Applications:

Policy Definition Views	Policy Association Views
mgmt\$polices	mgmt\$target_policies
mgmt\$policy_parameters	mgmt\$target_policy_settings
mgmt\$policy_violation_ctxt	mgmt\$target_policy_eval_sum
mgmt\$policy_viol_annotations	mgmt\$target_compliance_score
mgmt\$policy_viol_notif_log	

Policy Violation Views	Configuration Views
mgmt\$policy_violation_current	mgmt\$db_tablespace
mgmt\$policy_violation_history	mgmt\$db_datafiles
mgmt\$policy_violation_context	mgmt\$db_controlfiles

Oracle Home Patching

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

Linux Patching

MGMT\$HOSTPATCH_HOSTS
 MGMT\$HOSTPATCH_GROUPS
 MGMT\$HOSTPATCH_GRP_COMPL_HIST
 MGMT\$HOSTPATCH_HOST_COMPL

Security Views

MGMT\$ESA_ALL_PRIVS_REPORT	MGMT\$ESA_EXMPT_ACCESS_REPORT
MGMT\$ESA_ANY_DICT_REPORT	MGMT\$ESA_KEY_OBJECTS_REPORT
MGMT\$ESA_ANY_PRIV_REPORT	MGMT\$ESA_OH_OWNERSHIP_REPORT
MGMT\$ESA_AUDIT_SYSTEM_REPORT	MGMT\$ESA_OH_PERMISSION_REPORT
MGMT\$ESA_BECOME_USER_REPORT	MGMT\$ESA_POWER_PRIV_REPORT
MGMT\$ESA_CATALOG_REPORT	MGMT\$ESA_PUB_PRIV_REPORT
MGMT\$ESA_CONN_PRIV_REPORT	MGMT\$ESA_SYS_PUB_PKG_REPORT
MGMT\$ESA_CREATE_PRIV_REPORT	MGMT\$ESA_TABSP_OWNERS_REPORT
MGMT\$ESA_DBA_GROUP_REPORT	MGMT\$ESA_TRC_AUD_PERM_REPORT
MGMT\$ESA_DBA_ROLE_REPORT	MGMT\$ESA_WITH_ADMIN_REPORT
MGMT\$ESA_DIRECT_PRIV_REPORT	MGMT\$ESA_WITH_GRANT_REPORT

Client Configuration Views

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

Application Management Suite for Fusion Applications

The Application Management Suite for Fusion Applications (the “Suite”) offers advanced application management capabilities that help IT organizations simplify the administration and monitoring of their Fusion Application environments. The Application Management Suite for Fusion Applications provides below features, limited to Oracle Fusion Applications environments:

- Real User Experience Insight (RUEI), with Oracle Fusion Apps accelerator.
- Business Transaction Management.
- Functional Configuration Management.

Real User Experience Insight

Application Management Suite for Fusion Application Real User Monitoring provides an out-of-the-box real-user monitoring solution for Fusion applications that automatically discovers Fusion applications and translates network objects to business functions, thereby allowing measurement and monitoring of real-user transactions — from clicks to views into business transactions.

Each individual user action is automatically matched to the correct screen, applet, or view to provide contextual analyses. This state-of-the-art monitoring solution captures and reports all functional errors, discovers end-user performance issues, and discovers Fusion Application issues. Application managers can set up Key Performance Indicators (KPIs) and report views of interest of their critical packaged applications.

All the capabilities for Oracle Real User Experience Insight as documented in [Chapter 7, "End User Monitoring"](#) are available as part of the Application Management Suite for Fusion Applications license. However, the restricted license for Real User Experience Insight only allows RUEI to be used for monitoring Fusion Applications. Customers who want to use Real User Experience Insight to monitor other applications need to obtain a full use license of the product.

Features

- Provides an out-of-the-box, real-user monitoring solution for Fusion Applications.
- Provides out-of-box translation and reporting of error messages in the user's window.
- Enables application managers to set up KPIs for critical packaged applications.
- Enables specification and monitoring of real-user business transactions.

Business Transaction Monitoring

Business Transaction Monitoring (BTM) allows customers to monitor, troubleshoot, report, and manage mission critical transaction flows for their organization.

Business application owners and operational staff can automatically discover and correlate your SOA composites, components, services, and back-end Java EE implementations through detailed modeling and drill-down directly into the performance metrics at the component level. Business transactions and service dependencies can be automatically discovered and the message flows mapped. Details about individual and aggregate transaction execution can be searched for and displayed.

By providing and maintaining the business context while traversing your organization's application infrastructure, your developers and operational staff can leverage Oracle Enterprise Manager to meet the high availability and top performance criteria necessary to maximize business results.

Oracle Enterprise Manager enables your application development and support teams to:

- Continuously discover components, transaction flow, service dependencies and relationships.
- Monitor business transactions as they flow across tiers.
- Manage Oracle SOA Suite applications with minimal manual effort, regardless of application-specific knowledge or programming expertise.
- View aggregated dependences or drill-down to method-level interactions.

- Monitor endpoint performance with booth synthetic service tests and deep component implementation visibility.
- Search and analyze single instance transaction performance, with built-in report generation for slowest running or faulted instances.
- Link to related diagnostic and database metrics, taking advantage of SOA Suite specific knowledge.
- Quickly isolate and diagnose the root cause of SOA application performance problems in QA, staging, and production environments.

Note: This licensing agreement is a restricted-use license for Business Transaction Monitoring, and only allows BTM to be used for monitoring Fusion Applications. Customers who want to use BTM to monitor other applications need to obtain a full-use license of the product.

Licensing for Business Transaction Management

The SOA Management Pack Enterprise Edition includes the following Business Transaction Management features only for Oracle Service Bus and Oracle SOA Suite:

Feature	Description
Contextual visibility	Provide drill-down contextual visibility into SOA and OSB metrics.
Exception management	Provide transaction alerting and searching to locate exceptions and errors in transactions that span multiple application components.
Transaction discovery	Discover, record, and correlate transactions as they flow across components that span multiple JVMs, containers, and platforms.
Transaction-level agreements	Provide transaction-level objectives (TLOs) that span multiple interacting components.

Business Transaction Management Restricted-Use Licensing

Oracle includes a restricted-use license of Oracle Service Bus (and its subcomponents) for the express purpose of monitoring endpoints for Oracle Enterprise Manager Business Transaction Management, covering creation of Proxy and Business Service in pass-through mode only. Oracle Service Bus may be configured with the Business Transaction Management observer agent in single instance and an additional instance of Oracle Service Bus may be configured for Proxy failover purposes.

Functional Configuration Management

Functional configuration management automates the process of capturing and reporting on Fusion Applications functional configuration/setup data.

Functional configuration management features of the Application Management Suite for Fusion Application enable users to:

- View and analyze configuration.
- View and analyze deployments/installations.
- Search configuration.
- Capture/snapshot functional configuration data, on an ad-hoc and recurring basis.

- Perform complex comparison operations, either between instances or over time.
- Versioning of configuration settings.
- Compliance and Health Check capabilities for supportability and auditing purpose.
- Manage policies, including policy notifications.
- Provide configuration reports.
- Provide repository tables/views that store/expose configuration data.

The configuration management features that are licensed as part of this license provides capabilities such as search and compare across all systems, configuration monitoring, policy management and compliance support, security configuration scoring and dashboards, and comprehensive reporting for Fusion-specific software components, which include:

- Oracle Fusion Instance.
- Oracle Fusion Product Family.
- Oracle Fusion Product.
- Oracle Fusion Cluster J2EE Application.
- Oracle Fusion J2EE Application.

Additional Licensed Configuration Management Capabilities

Application Management Suite for Fusion Applications provides comprehensive configuration management capabilities for operating system targets and Fusion application targets as specified above.

Licensed Reports

The following reports are part of the licensed features of Configuration Management within the Application Management Suite for Fusion Applications. All reports in each of these sections are features of Configuration Management within the Application Management Suite for Fusion Applications. To display the Report Definitions page, click the **Reports** menu on the Enterprise Summary home page.

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

Application Management Suite for Oracle E-Business Suite

This product offers comprehensive applications management capabilities that help IT organizations simplify the administration and monitoring of their Oracle E-Business Suite environments.

In addition, the Change Management capabilities provided a centralized view to monitor and orchestrate changes (both functional and technical) across multiple Oracle E-Business Suite systems. The Application Management Suite for Oracle E-Business

Suite offers the capabilities to manage changes introduced by customizations, patches and functional setups during implementation or maintenance activities.

The following sections discuss the licensed features and links for the Application Management Suite for Oracle E-Business Suite as well as the Service Level Management and Configuration Management licensed features and links within this product. The information describes the Enterprise Manager links that require licensing of the Application Management Suite for Oracle E-Business Suite.

Features

The Application Management Suite for Oracle E-Business Suite includes the following features:

Feature	Description
Automatic discovery	Discover Oracle E-Business Suite components. Create a system with all of the associated infrastructure components.
Blackouts	Suspend monitoring on targets to support scheduled maintenance periods.
Change Approval Framework	Provides tracking and auditing with respect to change control requests and historical data. The change control mechanism entails one level of approval for any change that results in a configuration or code change of an Oracle E-Business Suite instance.
Change Management Dashboard	Provides quick access to the Change Management most commonly-used functions, as well as summaries of recent activity.
Cloning	Automate cloning, create and manage cloned images.
Concurrent Processing Dashboard	Provides a complete picture of concurrent processing on your system, both current activities as well as usage statistics. Monitor related activities for concurrent managers and concurrent programs.
Configuration management	Track configuration parameters, take configuration snapshots, and compare configurations.
Customization Manager	Automates the process of packaging, releasing, deploying, and migrating customizations for a single Oracle E-Business Suite instance or multiple Oracle E-Business Suite instances.
Java Diagnostics for Java-based Oracle E-Business Suite Components	Get comprehensive diagnostics of the Java problem at the JVM level.
Monitoring and diagnostics	Receive real-time metrics and historical data as well as alert notifications. Access JVM statistics. Run E-Business Suite diagnostic tests through OAM integration.
Management Connectors	Helpdesk (ticketing) connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems.
Metric and Alert/Event History	View metric and alert/event history and its associated details.
Metric Extensions	Create new metrics to monitor conditions specific to customer environments.
Monitoring	Receive real-time metrics, historical data, and alerts for Fusion applications and Fusion Middleware targets.

Feature	Description
Monitoring Templates and Template Collections	Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group.
Notifications	Define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules.
Patch Manager	Manually or automatically download and deploy patches across single or multiple Oracle E-Business Suite instances from a single console.
Real user monitoring	Obtain comprehensive insights on how end users use the application and the experience that is delivered.
Scale Out	Create Fusion Applications Instance from an existing Instance or add more WebLogic servers to existing WebLogic clusters.
Service level management	Monitor Oracle E-Business Suite applications using beacon transactions and service dashboards.
Setup Manager	Provides the ability to migrate functional setups across Oracle E-Business Suite instances. Setup Manager extends the capabilities of Oracle iSetup by providing functional configuration change management capabilities across multiple Oracle E-Business Suite instances.
User Monitoring	Monitor database session performance issue for Concurrent Programs requests, Forms sessions, and Oracle Application Framework.

Real User Monitoring

The Application Management Suite for Oracle E-Business Suite's Real User Monitoring offers optional packages for each supported Oracle architecture. Upon installation, these enable Oracle Real User Experience Insight to automatically "see" every E-Business Suite page. Oracle Real User Experience Insight's self-discovery capabilities can monitor applications regardless of the customization level, installed components, or size. Additionally, because Oracle Real User Experience Insight uses E-Business Suite-specific templates to selectively record the significant user events that will produce actionable insight, the reported monitoring quality is maximized.

All of the capabilities for Oracle Real User Experience Insight as documented in [Chapter 7, "End User Monitoring"](#) are available as part of the Application Management Suite for Oracle E-Business Suite license. However, the restricted license for Real User Experience Insight only allows RUEI to be used for monitoring Oracle E-Business Suite applications developed using Oracle Forms or the OA Framework. Customers who want to use Real User Experience Insight to monitor other applications need to obtain a full use license of the product.

Features

- Automatically discovers Oracle E-Business Suite modules running both an OA and JTT framework, as well as Oracle Forms applications.
- Provides out-of-box translation and reporting of error messages in the user's window.
- Enables application manager to set up Key Performance Indicators (KPIs) to critical packaged applications.

- Enables specification and monitoring of real-user business transactions.

Licensed Links for E-Business Suite

The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for Oracle E-Business Suite:

Licensed Page/Link	How to Access
All Oracle E-Business Suite Systems page	From the Enterprise Summary home page, click the Targets menu, then Oracle Applications . This page is licensed.
Add All Oracle E-Business Suite Targets page	From the Enterprise Summary home page, click the Targets menu, then Oracle Applications . From the all Oracle E-Business Suite Systems page, click Add . This page and all subsequent pages within the process are licensed.
Oracle E-Business Suite System Home, Performance, Administration, Maintenance, Diagnostic, User Monitoring, and Topology pages	<p>From the Enterprise Summary home page, click the Targets menu, then Oracle Applications. From the All Oracle E-Business Suite Systems page, select a link for an Oracle E-Business Suite system to drill down to the home page of an Oracle E-Business Suite System. These pages, and subsequent pages associated with drilling down the targets that comprise an E-Business Suite system are licensed.</p> <p>From the Enterprise Summary home page, click the Targets menu, then Systems. On the Systems page, click the link in the Name column for a system with an Oracle E-Business Suite System type. These pages and subsequent pages associated with drilling down the targets that comprise an E-Business Suite system are licensed.</p>
Change Approval Request, Patch Manager, Customization Manager, and Setup Manager	From the Oracle E-Business System page, click a link for Change Management . On the Change Management page, the summary and links to these items are licensed.
Oracle E-Business Suite Nodes System Home, Charts, Administration, Components and Topology pages	From the Enterprise Summary home page, click the Targets menu, then Systems . On the Systems page, click the Name column for a system with an Oracle E-Business Suite Nodes System type. These pages are licensed.
Oracle E-Business Suite System Home, Charts, Administration, Components and Topology pages	From the Enterprise Summary home page, click the Targets menu, then Systems . On the Systems page, click the Name column for a system with an Oracle E-Business Suite System type. These pages are licensed.

Service Level Management for E-Business Suite

Features associated with Enterprise Manager Cloud Control Service Level Management (SLM) are also licensed as part of the Oracle Application Management Suite for Oracle E-Business Suite. These SLM features are restricted for use with Oracle E-Business Suite applications and only for the CPUs licensed. They cannot be used for extensions to Oracle E-Business Suite. Extensions include but are not limited to custom forms, JSPs, Java/J2EE code, and integrations using BPEL.

SLM actively monitors and reports on the availability and performance of services, including end-user business functions, applications, and infrastructure components. Using service tests or synthetic transactions executed from remote user locations (beacons), businesses can monitor services from the end user's perspective and its correlation to the underlying IT infrastructure. In addition, SLM assesses the business impact of any service problem or failure and indicates whether service-level goals have been met.

See [Enterprise Manager Cloud Control Service Level Management](#) in [Chapter 7](#) for more information.

Command Line Interface (CLI) Verbs

The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for Oracle E-Business Suite:

- `emcli apply_template_tests`
- `emcli create_service`
- `emcli add_target`

Configuration Management for E-Business Suite

Configuration Management automates the time-consuming and often error-prone process of managing software configurations and deployments. The Configuration Management features that are licensed as part of the Application Management Suite for Oracle E-Business Suite provide capabilities such as search and compare across all systems, configuration monitoring, policy management and compliance support, security configuration scoring and dashboards, and comprehensive reporting for E-Business Suite-specific software components, which include:

- | | |
|---|---|
| ■ Oracle Concurrent Manager | ■ Oracle E-Business Suite System |
| ■ Oracle E-Business Suite | ■ Oracle E-Business Suite Patch Information Configuration |
| ■ Oracle E-Business Suite Custom Objects Definition | ■ Oracle E-Business Suite Workflow |

The Configuration Management features of the Application Management Suite for E-Business Suite enable users to:

- View and analyze configurations
- View and analyze deployments and installations
- Search configurations
- Compare configurations
- Provide configuration reports
- Provide repository tables and views that store and expose configuration data
- History to view a list of configuration changes made to the target
- Refresh option to manually refresh the configuration data

Additional Licensed Configuration Management Capabilities

Application Management Suite for Oracle E-Business Suite includes a limited use license of Application Configuration Console (ACC) and Configuration Change Console (CCC). These two tools can be used against Oracle E-Business Suite application targets as specified above, and operating system targets. Licensing information for ACC and CCC is available in [Chapter 5, "Other Infrastructure Management"](#) under the [Additional Licensed Features](#) section of [Configuration Management Pack for Applications](#).

Licensed Links

The following licensed pages and links of this pack apply to Oracle E-Business Suite-specific software components within Enterprise Manager. These components include those listed above.

Licensed Page/Link	How to Access
All Targets Policy Violations section	On the Enterprise Summary home page, all links in this section are licensed.
Add All Oracle E-Business Suite Targets page	From the Enterprise Summary home page, click the Targets menu, then Oracle Applications . From the all Oracle E-Business Suite Systems page, click Add . This page and all subsequent pages within the process are licensed.
Deployment Summary section	<p>From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all Hardware and Operating System related information in this section are licensed.</p> <p>From the Enterprise Summary home page, click the Targets menu, then Groups. On the Groups page, click the Administration tab. All Hardware and Operating System related information in this section are licensed.</p> <p>On the Enterprise Summary home page, all Hardware and Operating System related information in this section are licensed.</p>
Security Policy Violations section	On the Enterprise Summary home page, all links in this section are licensed.
Configuration section	<p>From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all links in this section are licensed.</p> <p>From the Enterprise Summary home page, click the Targets menu, then Hosts. On the Hosts page, all links in this section are licensed.</p>
Client Configuration section	From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all links in this section are licensed.
Policy Violations page	<p>From the Enterprise Summary home page, click the Compliance menu, then Policies. The links associated with this page are grouped in the Violations sub-tab. All links, sub-navigation tabs, and features available on or linked to from the Cloud Control Policies Violations page for information related to hosts are licensed.</p> <p>From the Enterprise Summary home page, click the Targets menu, then Hosts. On the Hosts page, all links in this section are licensed.</p>
Security at a Glance	From the Enterprise Summary home page, click the Compliance menu, then Security at a Glance . All links related to information on the host are licensed.
Policy Violations link and Compliance Score (%)	From the Enterprise Summary home page, click the Targets menu, then Hosts . On the Hosts page, these links are licensed.
Security section	From the Enterprise Summary home page, click the Targets menu, then Hosts . On the Hosts page, all links in this section are licensed.
Deployments link, Metric and Policy Settings link	From the Enterprise Summary home page, click the Targets menu, then Hosts . On the Hosts page, these links under Related Links are licensed.

Licensed Page/Link	How to Access
Configuration page	From the Enterprise Summary home page, click the Configurations menu. All features, links, and information on this page are licensed.
Policy Violations link	From the Enterprise Summary home page, click the Targets menu, then Systems . On the Systems page, this link is licensed. From the Enterprise Summary home page, click the Targets menu, then Groups . On the Groups page, this link is licensed.
Configuration Changes, Policy Violations, Security Policy Violations sections	From the Enterprise Summary home page, click the Targets menu, then Groups . On the Groups page, these sections are licensed.
Configuration Searches	From the Enterprise Summary home page, click the Targets menu, then Groups . On the Groups page, click the Administration tab. This feature is licensed.
Policy Violations column	From the Enterprise Summary home page, click the Targets menu, then Groups . On the Groups page, click the Members tab. All links and information this column are licensed.

Note: The features in the Patching and Cloning sections are licensed under the Provisioning and Patch Automation Pack. The Agent Installation features do not require licensing. The security links are shared by the Provisioning and Patch Automation Pack, Database Configuration Pack, Configuration Management Pack for Non-Oracle Systems, Applications Management Pack for Siebel, Application Management Suite for Oracle E-Business Suite, and Configuration Pack for Oracle Middleware.

Licensed Reports

The following reports are part of the licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite. All reports in each of these sections are features of Configuration Management within the Application Management Suite for Oracle E-Business Suite. To display the Report Definitions page, click the Reports tab on the Enterprise Summary home page.

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

Licensed Repository Views

The following repository views are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:

Policy Definition Views	Policy Association Views
mgmt\$policies	mgmt\$target_policies
mgmt\$policy_parameters	mgmt\$target_policy_settings
mgmt\$policy_violation_ctxt	mgmt\$target_policy_eval_sum
mgmt\$policy_viol_annotations	mgmt\$target_compliance_score
mgmt\$policy_viol_notif_log	

Policy Violation Views	Configuration Views
mgmt\$policy_violation_current	mgmt\$db_tablespace
mgmt\$policy_violation_history	mgmt\$db_datafiles
mgmt\$policy_violation_context	mgmt\$db_controlfiles

Oracle Home Patching	
MGMT\$CPF_ADVISORY_INFO	MGMT\$PATCH_ADVISORIES
MGMT\$CPF_HOMES_INFO	MGMT\$APPL_PATCH_AND_PATCHSET
MGMT\$CPF_PATCH_INFO	MGMT\$APPLIED_PATCHES
MGMT\$EM_HOMES_PLATFORM	MGMT\$APPLIED_PATCHSETS
MGMT\$HOMES_AFFECTED	

Linux Patching
MGMT\$HOSTPATCH_HOSTS
MGMT\$HOSTPATCH_GROUPS
MGMT\$HOSTPATCH_GRP_COMPL_HIST
MGMT\$HOSTPATCH_HOST_COMPL

Security Views	
MGMT\$ESA_ALL_PRIVS_REPORT	MGMT\$ESA_EXMPT_ACCESS_REPORT
MGMT\$ESA_ANY_DICT_REPORT	MGMT\$ESA_KEY_OBJECTS_REPORT
MGMT\$ESA_ANY_PRIV_REPORT	MGMT\$ESA_OH_OWNERSHIP_REPORT
MGMT\$ESA_AUDIT_SYSTEM_REPORT	MGMT\$ESA_OH_PERMISSION_REPORT
MGMT\$ESA_BECOME_USER_REPORT	MGMT\$ESA_POWER_PRIV_REPORT
MGMT\$ESA_CATALOG_REPORT	MGMT\$ESA_PUB_PRIV_REPORT
MGMT\$ESA_CONN_PRIV_REPORT	MGMT\$ESA_SYS_PUB_PKG_REPORT
MGMT\$ESA_CREATE_PRIV_REPORT	MGMT\$ESA_TABSP_OWNERS_REPORT
MGMT\$ESA_DBA_GROUP_REPORT	MGMT\$ESA_TRC_AUD_PERM_REPORT
MGMT\$ESA_DBA_ROLE_REPORT	MGMT\$ESA_WITH_ADMIN_REPORT
MGMT\$ESA_DIRECT_PRIV_REPORT	MGMT\$ESA_WITH_GRANT_REPORT

Client Configuration Views

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

Java-based Oracle E-Business Suite Licensed Components

You can only use the following pages against Java-based Oracle E-Business Suite Servers running OA Framework-based applications. Customers must obtain a full-use license of the Oracle Middleware Management Pack to manage custom applications running on Java EE containers.

- All of the pages in Oracle JVM Diagnostics are licensed features of the Application Management Suite for Oracle E-Business Suite.
- All of the pages in the Weblogic Server are licensed features of the Application Management Suite for Oracle E-Business Suite.
- All of the pages in the OC4J-based Oracle Internet Application Server are licensed features of the Application Management Suite for Oracle E-Business Suite.

Application Management Suite for JD Edwards EnterpriseOne

This product offers comprehensive application management capabilities that help IT organizations simplify the administration and monitoring of their JD Edwards EnterpriseOne environments. The Application Management Suite for JD Edwards EnterpriseOne is composed of the following physical components:

- JD Edwards EnterpriseOne Plug-in (built into Enterprise Manager Cloud Control 12c).
- Real User Experience Insight (RUEI).

The management suite contains a restricted use license of RUEI for use against the core JD Edwards EnterpriseOne application.

The following sections discuss the licensed features and links for the Application Management Suite for JD Edwards EnterpriseOne as well as the Service Level Management licensed features and links within this product.

Features

The Application Management Suite for JD Edwards EnterpriseOne includes the following features:

Feature	Description
Automatic discovery	Discover JD Edwards EnterpriseOne components. Create system and services targets with all of the associated infrastructure components
Blackouts	Suspend monitoring on targets to support scheduled maintenance periods.
Configuration management	Track configuration parameters, take configuration snapshots, and compare configurations
Java Diagnostics for Java EE-based JD Edwards EnterpriseOne Component	Comprehensive diagnostics of the Java problem at the JVM level.
Management Connectors	Helpdesk (ticketing) connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems.
Metric and Alert/Event History	View metric and alert/event history and its associated details.
Metric Extensions	Create new metrics to monitor conditions specific to customer environments.
Monitoring and diagnostics	Receive real-time metrics, historical data, and alert notifications. Examine log files for information pertinent to identifying problem root causes.
Monitoring Templates and Template Collections	Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group.
Notifications	Define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules.
Real user monitoring	Obtain comprehensive insights on how end-users use the application and the experience that is delivered.
Service level management	Monitor JD Edwards EnterpriseOne applications using beacon transactions and service dashboards.

Real User Monitoring

The Application Management Suite for JD Edwards EnterpriseOne's Real User Monitoring provides an out-of-the-box real-user monitoring solution for JD Edwards EnterpriseOne. It automatically discovers JD Edwards EnterpriseOne applications and translates network objects into manageable business services and functions.

This accelerator supports real-user monitoring of JD Edwards EnterpriseOne application components. Each individual user action is automatically matched to the correlating JD Edwards EnterpriseOne node, site, or view to provide detailed and rich contextual analyses. This monitoring solution captures and reports all functional errors, discovers end-user performance issues, and identifies application issues specific to JD Edwards EnterpriseOne applications. Application managers can set up Key Performance Indicators (KPIs) and report views of interest to their critical packaged applications to gain a complete understanding of their usage, and automatically be alerted in case of KPI events.

All of the capabilities for Oracle Real User Experience Insight as documented in [Chapter 7, "End User Monitoring"](#) are available as part of the Application

Management Suite for JD Edwards EnterpriseOne license. However, the restricted license for Real User Experience Insight only allows RUEI to be used for monitoring JD Edwards EnterpriseOne applications developed using JD Edwards EnterpriseOne Tool Set. Customers who want to use Real User Experience Insight to monitor other applications need to obtain a full use license of the product.

Features

- Provides an out-of-the-box real-user monitoring solution for JD Edwards EnterpriseOne applications.
- Provides out-of-box translation and reporting of error messages in the user's window.
- Enables application managers to set up KPIs for critical packaged applications.
- Enables specification and monitoring of real-user business transactions.

Licensed Links for JD Edwards EnterpriseOne

The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for JD Edwards EnterpriseOne:

Licensed Page/Link	How to Access
All JD Edwards EnterpriseOne Systems page	From the Enterprise Summary home page, click the Targets menu, then JD Edwards EnterpriseOne . This page is licensed.
Add All JD Edwards EnterpriseOne Targets page	From the Enterprise Summary home page, click the Targets menu, then JD Edwards EnterpriseOne . From the All JD Edwards EnterpriseOne page, click Add . This page and all subsequent pages within the process are licensed.
JD Edwards EnterpriseOne System Home, Performance, Administration, Maintenance, Diagnostic, User Monitoring, and Topology pages	From the Enterprise Summary home page, click the Targets menu, then JD Edwards EnterpriseOne . From the All JD Edwards EnterpriseOne Systems page, select a link for a JD Edwards EnterpriseOne system to drill down to the home page of a JD Edwards EnterpriseOne System. These pages and subsequent pages associated with drilling down the targets that comprise a JD Edwards EnterpriseOne system are licensed. From the Enterprise Summary home page, click the Targets menu, then Systems . On the Systems page, click the link in the Name column for a system with an Oracle E-Business Suite System type. These pages and subsequent pages associated with drilling down the targets that comprise an JD Edwards EnterpriseOne system are licensed
JD Edwards EnterpriseOne Nodes System Home, Charts, Administration, Components and Topology pages	From the Enterprise Summary home page, click the Targets menu, then Systems . On the Systems page, click the Name column for a system with a JD Edwards EnterpriseOne Nodes System type. These pages are licensed.
JD Edwards EnterpriseOne System Home, Charts, Administration, Components, Topology and Report pages	From the Enterprise Summary home page, click the Targets menu, then Systems . On the Systems page, click the Name column for a system with a JD Edwards EnterpriseOne System type. These pages are licensed.

Service Level Management for JD Edwards EnterpriseOne

Features associated with Service Level Management (SLM) for JD Edwards EnterpriseOne are also licensed as part of the Application Management Suite for JD Edwards EnterpriseOne. These SLM features are restricted for use with JD Edwards

EnterpriseOne applications and only for the CPUs licensed. They cannot be used for extensions to JD Edwards EnterpriseOne. Extensions include but are not limited to custom forms, JSPs, Java/J2EE code, and integrations using BPEL.

SLM offers a comprehensive monitoring solution that helps IT organizations achieve high availability and performance, and optimized service levels for their business services. SLM actively monitors and reports on the availability and performance of services, including end-user business functions, applications, and infrastructure components. Using service tests or synthetic transactions executed from remote user locations (beacons), businesses can monitor services from the end user's perspective and its correlation to the underlying IT infrastructure. In addition, SLM assesses the business impact of any service problem or failure and indicates whether service-level goals have been met.

See [Enterprise Manager Cloud Control Service Level Management](#) in [Chapter 7](#) for more information.

Licensed Command Line Interface (CLI) Verbs

The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for JD Edwards EnterpriseOne:

```
emcli apply_template_tests
emcli create_service
emcli add_target
```

Configuration Management for JD Edwards EnterpriseOne

Configuration management automates the time-consuming and often error-prone process of managing host software and hardware configurations and deployments. The configuration management features that are licensed as part of the Application Management Suite for JD Edwards EnterpriseOne provides capabilities such as search and compare across all systems, configuration monitoring, policy management and compliance support, security configuration scoring and dashboards, and comprehensive reporting for JD Edwards EnterpriseOne-specific software components, which include:

- JD Edwards EnterpriseOne HTML Server
- JD Edwards EnterpriseOne Enterprise Server
- JD Edwards EnterpriseOne Business Services Server
- JD Edwards EnterpriseOne Server Manager

Configuration Management features of the Application Management Suite for JD Edwards EnterpriseOne enable users to:

- View and analyze configuration
- View and analyze deployments/installations
- Search configuration
- Compare configuration
- Manage policies, including policy notifications
- Provide configuration reports
- Provide repository tables/views that store/expose configuration data

Licensed Links

The following licensed pages and links of this pack apply to for JD Edwards EnterpriseOne-specific targets within Enterprise Manager. These targets include JD Edwards EnterpriseOne HTML Server, JD Edwards EnterpriseOne Enterprise Server, JD Edwards EnterpriseOne Business Services Server, and JD Edwards EnterpriseOne Server Manager.

Licensed Page/Link	How to Access
All Targets Policy Violations section	On the Enterprise Summary page, all links in this section are licensed.
Deployment Summary section	On the Enterprise Summary page, all Hardware and Operating System related information in this section are licensed. From the Enterprise Summary page, click the Deployments menu. On the Deployments page, all Hardware and Operating System related information in this section are licensed. From the Enterprise Summary page, click the Targets menu, then Groups . On the Groups home page, click the Administration tab. All Hardware and Operating System related information in this section are licensed.
Security Policy Violations section	On the Enterprise Summary page, all links in this section are licensed.
Configuration section	From the Enterprise Summary page, click the Deployments menu. On the Deployments page, all links in this section are licensed.
Client Configuration section	From the Enterprise Summary page, click the Deployments menu. On the Deployments page, all links in this section are licensed.
Violations sub-tab page	From the Enterprise Summary page, click the Compliance menu, then Policies . On the Policy Violations page, all links, sub-navigation tabs, and features available on or linked to from the Cloud Control Policies Violations page for information related to hosts are licensed.
Security at a Glance page	From the Enterprise Summary page, click the Compliance menu, then Security at a Glance . All links related to information on the host are licensed.
Policy Violations link and Compliance Score (%)	From the Enterprise Summary page, click the Targets menu, then Hosts . On the Hosts page, these items are licensed.
Configuration, Policy Violations, Security sections	From the Enterprise Summary page, click the Targets menu, then Hosts . On the Hosts page, the links in these sections are licensed.
Deployments link, Metric and Policy Settings link	From the Enterprise Summary page, click the Targets menu, then Hosts . On the Hosts page under Related Links, these links are licensed.
Configuration page	From the Enterprise Summary page, click the Targets menu, then Hosts . On the Hosts page, click Configuration . All features, links, and information on this page are licensed.
Policy Violation link	From the Enterprise Summary page, click the Targets menu, then Systems . On the Systems page, this link is licensed. From the Enterprise Summary page, click the Targets menu, then Groups . On the Groups page, this link is licensed.
Configuration Changes, Policy Violations, Security Policy Violations sections	From the Enterprise Summary page, click the Targets menu, then Groups . On the Groups home page, all links in these sections are licensed.

Licensed Page/Link	How to Access
Configuration Searches	From the Enterprise Summary page, click the Targets menu, then Groups . On the Groups home page, click the Administration tab. For host and operating systems, this feature is licensed.
Policy Violations column	From the Enterprise Summary page, click the Targets menu, then Groups . On the Groups home page, click the Members tab. All links and information in this column are licensed.

Licensed Reports

The following reports are part of the licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne. All reports in each of these sections are features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne. To display the Report Definitions page, click the Reports tab on the Cloud Control Home page.

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

Licensed Repository Views

The following repository views are licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne:

Policy Definition Views	Policy Association Views
mgmt\$policies	mgmt\$target_policies
mgmt\$policy_parameters	mgmt\$target_policy_settings
mgmt\$policy_violation_ctxt	mgmt\$target_policy_eval_sum
mgmt\$policy_viol_annotations	mgmt\$target_compliance_score
mgmt\$policy_viol_notif_log	

Policy Violation Views	Configuration Views
mgmt\$policy_violation_current	mgmt\$db_tablespace
mgmt\$policy_violation_history	mgmt\$db_datafiles
mgmt\$policy_violation_context	mgmt\$db_controlfiles

Oracle Home Patching

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

Linux Patching

MGMT\$HOSTPATCH_HOSTS
 MGMT\$HOSTPATCH_GROUPS
 MGMT\$HOSTPATCH_GRP_COMPL_HIST
 MGMT\$HOSTPATCH_HOST_COMPL

Security Views

MGMT\$ESA_ALL_PRIVS_REPORT	MGMT\$ESA_EXMPT_ACCESS_REPORT
MGMT\$ESA_ANY_DICT_REPORT	MGMT\$ESA_KEY_OBJECTS_REPORT
MGMT\$ESA_ANY_PRIV_REPORT	MGMT\$ESA_OH_OWNERSHIP_REPORT
MGMT\$ESA_AUDIT_SYSTEM_REPORT	MGMT\$ESA_OH_PERMISSION_REPORT
MGMT\$ESA_BECOME_USER_REPORT	MGMT\$ESA_POWER_PRIV_REPORT
MGMT\$ESA_CATALOG_REPORT	MGMT\$ESA_PUB_PRIV_REPORT
MGMT\$ESA_CONN_PRIV_REPORT	MGMT\$ESA_SYS_PUB_PKG_REPORT
MGMT\$ESA_CREATE_PRIV_REPORT	MGMT\$ESA_TABSP_OWNERS_REPORT
MGMT\$ESA_DBA_GROUP_REPORT	MGMT\$ESA_TRC_AUD_PERM_REPORT
MGMT\$ESA_DBA_ROLE_REPORT	MGMT\$ESA_WITH_ADMIN_REPORT
MGMT\$ESA_DIRECT_PRIV_REPORT	MGMT\$ESA_WITH_GRANT_REPORT

Client Configuration Views

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

Java-based JD Edwards EnterpriseOne Licensed Components

You can only use the following pages against Java-based JD Edwards EnterpriseOne Servers running JD Edwards EnterpriseOne -based applications. Customers must obtain a full-use license of the Oracle Middleware Management Pack to manage custom applications running on Java EE containers.

- All pages in Oracle JVM Diagnostics are licensed features of the Application Management Suite for JD Edwards EnterpriseOne.
- All pages in the Weblogic Server are licensed features of the Application Management Suite for JD Edwards EnterpriseOne.
- All pages in the OC4J-based Oracle Internet Application Server are licensed features of the Application Management Suite for JD Edwards EnterpriseOne.

Cloud Management

This chapter describes the Cloud Management packs. The following packs are included:

- [Oracle Cloud Management Pack for Oracle Database](#)
- [Oracle Cloud Management Pack for Oracle Middleware](#)

Out-of-the-box cloud licenses are granted to already existing targets on which licenses are defined and whenever new targets are discovered the packs are granted automatically. License access information can be verified by clicking **Setup, Management Packs**, then **Management Pack Access**.

Oracle Cloud Management Pack for Oracle Database

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 feature provided by this pack are:

- Self-service Database provisioning on physical infrastructure.
- Self-service, Database-only Assembly provisioning on Oracle Virtualization Management infrastructure. 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 two set of servers.
- Support both single instance and Real Application Clusters (RAC) configuration.
- Policy-driven resource management, such as scale out and scale back of compute power.
- Metering and chargeback based on fixed cost, utilization metrics and configuration parameters of the database and the underlying infrastructure (host, VM, storage).
- Programmatic access to the Self-Service Portal.

Prerequisites

The Oracle Cloud Management Pack for Oracle Database requires the [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 **Setup** menu. Select **Cloud**.

Licensed APIs

API	Description
Assembly Upload	POST/GET/PUT/DELETE on /em/library URI space and subspace of Template media type with attribute "type" = "Assembly"
Assembly Deployment	POST on /em/cloud URI space and subspace of VDC media type's assembly_instance URI
Query Request Status of Assembly Deployment	GET on /em/cloud URI space and subspace of VDC media type's assembly_instance URI GET on /em/cloud URI space and subspace of AssemblyInstance media type
Retirement/Destroy	DELETE on /em/cloud URI space and subspace of AssemblyInstance media type
Scale up/down	PUT on /em/cloud URI space and subspace of AssemblyInstance media type PUT on /em/cloud URI space and subspace of ScalabilityGroup media type that is under an AssemblyInstance
emcli get_metering_data	Command line API to retrieve hourly-metering information. The data retrieval process can be used for integration with billing and reporting systems.

Licensed Views and Tables

The following objects within the repository schema are licensed under the Oracle Cloud Management Pack for Oracle Database:

- Tables starting with EMCT_CBA.
- Views starting with EMCT\$CBA.
- The view GP_EMCT_CBA_TARGET_CHARGE.

Licensed Chargeback Reports

The following BI Publisher reports are licensed under the Oracle Cloud Management Pack for Oracle Middleware. Also, any report created using “create-like” feature of BI publisher referring the following reports, fall under this license.

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

Oracle Cloud Management Pack for Oracle Middleware

Cloud Management Pack for Oracle Fusion Middleware helps to set up a Middleware Cloud and operate the Middleware (or Platform) as a Service model.

Features

Some of the features provided by this pack are:

- Self-service provisioning of WebLogic-based Java services.
- Self-service, Middleware-only Assembly provisioning on Oracle Virtual Management infrastructure. 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 two set of servers.
- 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 WebLogic server’s underlying infrastructure (host, VM, storage).
- Programmatic access to the Self-Service Portal.
- Setup and management for WebLogic-based Middleware Cloud for offering Java service instances running on physical or virtual hosts.

Prerequisites

The Oracle Cloud Management Pack for Oracle Fusion Middleware requires the [WebLogic Server Management Pack Enterprise Edition](#).

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 **Setup** menu. Select **Cloud**.

Licensed APIs

API	Description
Assembly Upload	POST/GET/PUT/DELETE on /em/library URI space and subspace of Template media type with attribute "type" = "Assembly"
Assembly Deployment	POST on /em/cloud URI space and subspace of VDC media type's assembly_instance URI
Query Request Status of Assembly Deployment	GET on /em/cloud URI space and subspace of VDC media type's assembly_instance URI GET on /em/cloud URI space and subspace of AssemblyInstance media type
Retirement/Destroy	DELETE on /em/cloud URI space and subspace of AssemblyInstance media type
Scale up/down	PUT on /em/cloud URI space and subspace of AssemblyInstance media type PUT on /em/cloud URI space and subspace of ScalabilityGroup media type that is under an AssemblyInstance
emcli get_metering_data	Command line API to retrieve hourly-metering information. The data retrieval process can be used for integration with billing and reporting systems.

Licensed Views and Tables

The following objects within the repository schema are licensed under the Oracle Cloud Management Pack for Oracle Middleware:

- Tables starting with EMCT_CBA.
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- The view GP_EMCT_CBA_TARGET_CHARGE.

Licensed Chargeback Reports

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

Base Enterprise Manager Functionality

The base installation of Enterprise Manager Cloud Control 12c includes several features free of charge with the purchase of any Oracle software license or Support contract.

The release of Oracle Enterprise Manager Cloud Control 12c makes several licensing changes. Some features that were part of licensed packs are now included in the base functionality. This chapter outlines the list of features that are included with the base functionality of Oracle Enterprise Manager:

- [Base Framework Features](#)
- [Base Database Management Features](#)
- [Base Middleware Management Features](#)
- [Base Engineered Systems Management Features](#)
- [Server, Storage, and Virtualization Management Features](#)

Base Framework Features

The following items are included as part of framework features of Oracle Enterprise Manager Cloud Control 12c:

Feature	Description
Agent Management	Start, stop, restart, and modify agent configuration from Oracle Enterprise Manager Cloud Control 12c. View agent health from agent home page.
Agent Provisioning and Patching	Automate deployment of agent software and patches to the target servers.
Agent-based Target Discovery	Discover targets running on a host automatically by deploying the agent.
Alerts and Metric Threshold Management (<i>excludes notifications</i>)	Configure thresholds for metrics and view alerts (server generated or generated based on threshold violation). This excludes notifications which requires one or more licensed Packs.
Auto Discovery	Discover host on a network and promote to being managed by Enterprise Manager.
Enterprise Manager Self Management and Monitoring	View Management Services and Repository and Management Service target pages and reports. View Enterprise Manager topology.
Enterprise Manager Support Workbench	Access Checker Central diagnostics checks. Run EMDiag Kit. Package and send Problem information to Oracle Support.

Feature	Description
Groups and Systems Management	Enable administrators to manage multiple targets as one.
Information Publisher and Reporting	Create and manage reports in Enterprise Manager's embedded reporting solution or in BI Publisher. Specific reports in Enterprise Manager may be licensed under Packs.
Job System and Corrective Actions	Automate routine (often repetitive) tasks. Enables automated response to metric alerts.
Monitoring and Incident Management	Provide administrators with ability to monitor targets individually or in groups or systems. View and manage incidents generate from events associated with targets.
My Oracle Support integration	Provide seamless access to My Oracle Support within the Enterprise Manager user interface. Manage Service Requests and review Knowledge Base articles, all without leaving the Enterprise Manager user interface.
Self-update (<i>functionality in plug-ins may be licensed under Packs</i>)	Update Enterprise Manager with new features or fixes based on new versions of software available on Oracle Technology Network (OTN) or My Oracle Support (MOS).
Extensibility Development Kit (EDK)	Collection of tools, utilities, sample code, and documentation that enables creation of new plug-ins to extend Enterprise Manager's ability to monitor and manage new types of targets.
Software Library (excludes licensed software)	Manage software entities such as software patches, virtual appliance images, reference gold images, application software, and their associated directive scripts. This excludes any software entities that are a part of a licensed Pack.
User, Role and Credentials Management	Manage Enterprise Manager user access, the roles associated with users, and the credentials used by users to access targets.
vCPU Utilization Tracking	Track and report on Oracle product vCPU consumption on supported Oracle Engineered Systems.

Base Database Management Features

Users of Standard Edition databases can use the Base Framework features and the Base Database Management Features. The following items are included as part of base database management features of Enterprise Manager Cloud Control 12c:

Feature	Description
Advisor Central	Initiate an Advisor operation for various database management tasks, such as Segment Advisor, Memory Advisor. Some Advisors may be licensed under Packs.
Data movement	Configure and manage movement of data between databases using features such streams, replication, data pump.
Error management	View error history reported in the database alert log. Manage and diagnose critical errors reported using Support Workbench. Package errors and associated trace files into incidents for reporting on My Oracle Support.
Grid Infrastructure management	Manage all components of Oracle Grid Infrastructure including Automatic Storage Management (ASM) and Clusterware (including Cluster Ready Services (CRS)).

Feature	Description
High availability	Configure and manage database backups, initiate recovery actions, configure flashback. View and configure standby databases. Analyze high availability configuration against Maximum Availability Architecture.
Non-structured data management	Manage multi-dimensional data such as OLAP, semi-structured data such as XML, and unstructured data such as text.
Object, program and initialization parameters management	Manage database objects such as tables, indexes, views, materialized views. Manage PL/SQL and Java-based database programs such as triggers, procedures, functions. View and manage database initialization parameters.
Optimizer Management	Manage optimizer statistics and SQL plans. Some capabilities under SQL Plan Control may be licensed under Packs.
Patch Recommendations	My Oracle Support Critical Patch Recommendations.
Resource Management	Manage the distribution of operating system resources by defining and assigning resource plans to consumer groups within the database.
Scheduler Central	Manage automated jobs maintained by Oracle Database and Oracle Enterprise Manager including Automatic Maintenance Tasks.
Security	Manage database users, roles, profiles, configure Virtual Private Database (VPN) policies. Certain database security pages are licensed under the corresponding database security option, for example, Database Vault, Audit Vault.
SQL Execution	View SQL execution history, execute ad hoc SQL using Run SQL or SQL Worksheet.
Space and Undo Management	Manage control files, tablespaces, datafiles, log files, automatic undo management.
Support Workbench	View critical errors captured in the Automatic Diagnostic Repository, create incidents from errors to report to My Oracle Support.
Upgrade Planner	My Oracle Support Upgrade Planner.
Workspace management	Define and configure workspaces to maintain different versions of table row values in different workspaces.

Base Middleware Management Features

The following items are included as part of Enterprise Manager Cloud Control 12c Middleware management:

Note: Only the target home page itself is unlicensed. All links including metric links to look at historical metrics are part of the appropriate middleware management pack and require a license.

Feature	Description
Discovery of Oracle Fusion Middleware Farm/WebLogic Domain	Allow for discovery of Oracle WebLogic Domains and Oracle Fusion Middleware Farms (includes discovery of Fusion Middleware components deployed to the domains as well).

Feature	Description
Drilldowns to Administration Consoles	Provide links for launching and accessing administration consoles such as the Oracle Enterprise Manager Fusion Middleware Control console, and Oracle WebLogic Server Administration Console.
Fusion Middleware targets home pages <i>(Exception is JVM and JVM Pool target home pages; these two home pages are part of a management pack and require a license.)</i>	View target home pages including, but not limited to the following target types: <ul style="list-style-type: none"> ▪ WebLogic Domain ▪ Fusion Middleware Farm ▪ WebLogic Cluster and WebLogic Server ▪ Application Deployment and Clustered Application Deployment ▪ WebCenter ▪ Oracle Service Bus target ▪ SOA Infrastructure and Composite target
Process Control	Ability to start, stop, restart Oracle Fusion Middleware related components.
Refresh or Rediscovery of Oracle Fusion Middleware Farm/WebLogic Domain	Refresh or rediscover Oracle Fusion Middleware Farm/WebLogic Domain and its members - either manually or automatically with a predefined job.
Support Workbench	Automatic collection of diagnostic data when critical errors occur in WebLogic Server and SOA Infrastructure components. Data can then be quickly and easily packaged and sent to Oracle Support to reduce problem resolution time.

Base Engineered Systems Management Features

Engineered Systems includes Exadata and Exalogic systems.

Exadata Management Features

The following pages are included as part of Enterprise Manager Cloud Control 12c Exadata management:

Page	Page Features
Schematic	<ul style="list-style-type: none"> ▪ Database Machine Schematic ▪ Physical components ▪ Physical placement ▪ Temperature of cells ▪ Alter physical placement of each component via Edit ▪ Status summary of each component ▪ List of alerts
Topology Viewer	<ul style="list-style-type: none"> ▪ DB Machine Software Topology ▪ System Members ▪ Infiniband Switch

Page	Page Features
Exadata Grid	<ul style="list-style-type: none"> ■ Overview – Target status, Cell health, release version and IORM status ■ Capacity – Disk capacity allocated to ASM, ASM Diskgroup summary and cell incidents <p>Note: these regions are licensed by the Diagnostics Pack for Oracle Database:</p> <ul style="list-style-type: none"> ■ Workload Distribution by Databases ■ Cell level Performance charts – I/O, CPU, Network and Response Time
IB Network page	<p>Overview – status, switches, firmware version, Schematic explaining the port status, Node status, List of alerts, incidents.</p> <p>Note: these regions are licensed by the Diagnostics Pack for Oracle Database:</p> <ul style="list-style-type: none"> ■ Throughput details
ILOM, KVM, Cisco Switch, PDU	Summary, Job Activity, list of alerts

Exalogic Management Features

The following items are included as part of Enterprise Manager Cloud Control 12c Exalogic management:

Feature	Description
Basic monitoring	<ul style="list-style-type: none"> ■ Component placement – schematic view, temperature, hardware up and down status ■ Software dashboard page ■ Virtualization pages within the Exalogic Navigation tree ■ Storage pages ■ Topology view of the system and components ■ Exalogic InfiniBand (IB) Fabric Page

Server, Storage, and Virtualization Management Features

The following items are included as part of Enterprise Manager Cloud Control 12c server and virtualization management:

Feature	Description
Administration	Provide remote administration capabilities for hosts.
Configuration management	Provide hardware and software configuration data collection.
Consolidation Planner	Determine optimal server consolidation scenarios by leveraging data collected by Cloud Control against business and technical constraints.
Controlling/Service Domain	Configure Oracle VM Server for SPARC controlling or service domain attributes and monitor resource consumption. Manipulate vdisk allocation to VMs post-creation.
Dynamic Resource Allocation	Provide for real-time changing of allocated resources using Oracle Solaris Container and Oracle VM Server for SPARC technology.

Feature	Description
Dynamic Topology	Maintain the child-to-parent relationship between the service processor, hypervisor, global zone, control domain, and virtual machine.
Guest VM/Linux OS Patching	Provide automated host patching and integration with an Unbreakable Linux network (ULN).
Historical Trending	View historical workload trends for Oracle Solaris Zones against one another on a central graph.
Host monitoring and management	Monitor of Cloud Control component services, such as jobs and notifications.
Hypervisor/OS Provisioning	Provide default templates for the creation of Oracle VM Server for SPARC controlling domain configuration. Ensure compatibility between embedded hypervisor components in the firmware and the bare metal OS layers above.
Image Library Management	Maintain ISO and Oracle Solaris Flash Archive (FLAR) images for both physical and virtual provisioning.
Infrastructure Management	Provide ready access to Home, Self-Service, Request Dashboard pages via the Infrastructure Cloud menu.
Monitoring Profiles for V12N	Provide monitoring attributes for issues associated with Oracle VM Server for SPARC and Oracle Solaris Container environments.
Network Configuration	Provide network topology in VM creation wizards that result in more redundant configurations based on IP multi-pathing and VLAN tagging.
Oracle Solaris Container Management	Provide full life-cycle management, including discovery, create, delete, configure, boot, shutdown, and monitor.
Oracle Solaris Global Zone	Configure global zone resource allocation and monitor resource consumption.
Oracle Solaris Zones and Patch Management	Facilitate “update on attach” actions as zones are migrated around to different global zones.
Oracle VM and Guest VM provisioning	Deploy Oracle VM to bare metal servers and create Guest VMs.
Oracle VM management including Oracle VM manager and self-service console (IaaS manager)	Manage environment requests to allow for more storage.
Oracle VM Server for SPARC	Provide full life-cycle management, including discovery, create, delete, configure, boot, shutdown, and monitor.
Oracle VM-template based provisioning	Manage applications and required resources based on service level requirements, etc.
Performance monitoring	Provide real-time and historical performance monitoring.
Resource Virtual Pools	Construct T-series server group and manage the network configuration and shared storage, auto-balance the workload, and view historical aggregations of performance metrics.
Storage Orchestration	Automatically facilitate the use of Oracle Sun ZFS Storage Appliances in the Oracle Solaris Container and Oracle VM Server for SPARC environments.
Storage Plug-in	Manage storage assets more effectively.
Technology Abstraction Layer	Use M-series dynamic hardware domains, T-series Oracle VM Server for SPARC, and Oracle Solaris Zones, and create complex operational plans.

Ops Center Features

Oracle Enterprise Manager Ops Center provides the most comprehensive management across Oracle servers, storage, network devices, operating systems, and Oracle Solaris virtualization technologies while dramatically improving the efficiency of IT operations with its integrated life-cycle management and built-in automation. Ops Center is the best solution on the market today for Oracle infrastructure management.

Ops Center provides full life-cycle management of virtual guests, including resource management and mobility orchestration. It helps customers streamline operations and reduce downtime. Ops Center provides an end-to-end management solution for both physical and virtual systems. From Oracle Solaris Zones to Oracle VM Server for SPARC, Ops Center offers the right combination of granular control and workload abstraction for a complete hardware and software solution.

Ops Center includes the following features:

Feature	Description
Alarm Management	Provide alert correlation and aggregation. Open a Service Request with My Oracle Support.
Asset Management	Manage distributed assets from the same console. Provide new hardware asset reporting down to the field replaceable unit (FRU) part number.
Audit Reporting	Track software and configuration changes made with Ops Center through easily read reports.
Bare Metal OS Provisioning	Automate Kickstart, Jumpstart, YAST, and DHCP configuration for the remote light-out provisioning of servers. Create profiles to capture finish scripts and customization.
Cloud Control Integration	Provide integration between Enterprise Manager Cloud Control and Ops Center. Discover targets and view alarm information. View hardware, OS, and virtualization information.
Complex Plan Management	Create in-depth workflow plans by nesting server provisioning tasks into a comprehensive string of events.
Compliance Automation	Provide reporting capabilities to schedule tests against target nodes, point-in-time comparisons, operational policies, or self-made software profiles.
Disconnected Mode	Provide choice to remain connected to Oracle to receive knowledge transfer automation and protection, or to run in disconnected mode from Oracle.
Energy Awareness	View historical and real-time energy consumption of individual servers or groups of servers in both Watt (W) and kWh in terms of cost. View CPU utilization, temperature, and fan RPM trending.
Enhanced OS Patching	Minimize downtime originating from software life cycles activities.
Firmware Provisioning	Automatically download firmware for servers and storage appliances, including Service Processor, RAID HBA cards, and drive firmware.
Hardware Management	Provide hardware monitoring across the Oracle T-series, M-series, X-series, Network Appliances, and Storage Appliances. Provide integration with Oracle Solaris FMA.

Feature	Description
Historical Monitoring	Provide a view of past trends in monitored performance attributes.
M-series Dynamic Domains	Create provisioning plans that control the configuration of dynamic hardware domains.
My Oracle Support Integration	Provide integration to My Oracle Support. Automatically open service requests and validate assets. View service request status updates.
Network Fabric Monitoring	Discover, map, and view Oracle 10GBe and Infiniband Switches, NEMs, and HBA devices from the server point of view.
Operational Plans	Set alarm thresholds on any attribute in the product and house them in a monitoring profile that can be provisioned across multiple boxes. Allow for ad-hoc actions and scripts to be run and their output captured.
Oracle Solaris Cluster Support	Discover an Oracle Solaris Cluster environment provide full coverage of Oracle Solaris Cluster software in the Ops Center knowledge repository.
Oracle Sun ZFS Storage Appliances	Discover Oracle Sun ZFS Storage Appliances properly in the topology and provide a view of configuration and service information of the device.
OS Performance Monitoring	Provide Oracle Solaris and Linux OS performance monitoring, both real-time status of attributes and historical charting.
RAID Device Configuration	Provide pre-OS installation and RAID device configuration.
Role Based Access Control	Provide roles that control a user's access, which can be granted universally or for specific groups of assets.
Windows Support	Provide comprehensive Windows patching integration with Microsoft System Center Configuration Manager.

Third-Party Licenses

This appendix contains licensing information about certain third-party products included with Enterprise Manager version 12c. Unless otherwise specifically noted, all licenses herein are provided for notice purposes only.

The following sections in this appendix describe the third-party licenses:

- [Apache Software Foundation Licenses](#)
 - [Apache Software License, Version 1.1](#)
 - * [Hessian Binary Web Service Protocol 3.2.1](#)
 - [Apache Software License, Version 2.0](#)
 - * [Axis - Java, 1.2.1, 2.1.1, 1.4, 1.4.2](#)
 - * [Apache Jakarta Commons HttpClient 3.1](#)
 - * [Commons BeanUtils 1.6, 1.7, 1.8](#)
 - * [Commons Byte Code Engineering Library \(BCEL\) 5.2](#)
 - * [Commons Codec 1.2, 1.3](#)
 - * [Commons Collections 3.1](#)
 - * [Commons Digester 1.5, 1.7](#)
 - * [Commons JXPath 1.2](#)
 - * [JavaServer Pages \(JSP\) Expression Language \(EL\) Parser 2.0](#)
 - * [Jetty 7.0.1](#)
 - * [JSON PATH 1.0](#)
 - * [JSON Smart 1.0](#)
 - * [Wiseman 1.0](#)
 - * [Log4J 1.2.8, 1.2.13, 1.2.15, 1.3](#)
 - * [Xerces 2.8.1, 2.0.1](#)
 - * [XMLBeans Developer Kit \(xbean.jar\) 2.3.0, 2.2.0, and 2.1.0](#)
 - [Flash 10](#)
 - [JDepend 2.9](#)
 - [Perl Artistic License](#)
 - [Net-DNS 0.48](#)
 - [Net-IMAP-Simple \(IMAP Perl Module\) 0.93](#)

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- Perl Interpreter 5.8.8, 5.10.0
 - DBD Perl 1.15
 - Flex SDK 3.3, 3.5
 - Flex Flowbox Container
 - Rating Component
 - Sudo 1.6.7p5
 - unzip 6.0
 - zip 3.0
 - Microsoft JDBC Drivers SQL Server 2005 JDBC
 - Cairngorm (v2.2)
 - Java Secure Channel (JSCH) for SSH2 0.1.44, 1.20, 1.33, 1.37, 1.39
 - Streaming API for XML (StAX) (StAX utils 20070216)
 - Graph Range Selection
 - Windows Event Handling
 - flexlib 2.5
 - Flexlib - Docking Toolbar
 - Flexlib - Highlighter
 - Flexlib - ScrollableMenu
 - Flexlib - treegrid 2.1
 - HP J2SE(TM) Development Kit (JDK) 1.5, 5.0
 - Jython 2.1, 2.2, 2.2.1
 - Standard Performance Evaluation Corporation (SPEC) Benchmark Suites (1.1)
 - flextreemap (2.2.0)
 - pngcrush, optimizer tool for PNG files 1.7.13
 - PowerBroker 4.0.5
 - httpLib2 Version 0.7.4
 - pyyami 3.10
 - Lua (liblua) 5.1.3
 - OpenSSL 1.0.1b
 - libdnet 1.12 ipv6
 - libpcap 1.2.1
 - libpcre 7.6
 - winpcap 4.1.2
 - Additional Licensing Information

Apache Software Foundation Licenses

The following sections provide licensing information for the following versions of Apache software licenses:

- Version 1.1
- Version 2.0

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Net-DNS 0.48

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Net-IMAP-Simple (IMAP Perl Module) 0.93

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Note: `Simple.pm` in this directory is the original Perl module file. The original Perl module file has been modified slightly in this file. The changes between the original Perl module file and this file are as follows:

1. Line 1 of method "new"

The original file has:

```
my ( $class, $server, %options ) = @_;
```

The modified file (this file) has:

```
my ( $class, $server, $port,$timeout, %options ) = @_;
```

2. Line 10 of method "new"

The original file has:

```
$self->{sock} = new IO::Socket::INET( "$server:143" )
```

The modified file (this file) has:

```
$self->{sock} = new IO::Socket::INET( PeerAddr => $server,
                                     PeerPort => $port,
                                     Timeout  => $timeout )
```

Summary of the changes:

The original Perl module file hard-codes the port in the method "new". The changed file (this file) makes the port a parameter to the method "new".

Perl Interpreter 5.8.8, 5.10.0

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DBD Perl 1.15

DBI 1.20/DBD 1.15 from Tim Bunce

This product includes source code developed by Tim Bunce which can be found at <http://search.cpan.org/~timb/DBD-Oracle-1.15/>

Flex SDK 3.3, 3.5

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Sudo 1.6.7p5

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unzip 6.0

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zip 3.0

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Java Secure Channel (JSCH) for SSH2 0.1.44, 1.20, 1.33, 1.37, 1.39

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flextreemap (2.2.0)

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TreeMap Component for Adobe Flex

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pngcrush, optimizer tool for PNG files 1.7.13

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Executable name is `pngcrush`

It was built with libpng version 1.4.1, and is running with libpng version 1.4.1 - February 25, 2010.

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httplib2 Version 0.7.4

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pyyami 3.10

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Lua (liblua) 5.1.3

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libdnet 1.12 ipv6

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libpcap 1.2.1

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libpcre 7.6

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winpcap 4.1.2

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The snowball stemmers in contrib/snowball/src/java/net/sf/snowball were developed by Martin Porter and Richard Boulton. The full snowball package is available from <http://snowball.tartarus.org/>

The Arabic stemmer (contrib/analyzers) comes with a default stopword list that is BSD-licensed created by Jacques Savoy. The file resides in contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt.

See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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Includes lib/servlet-api-2.4.jar from Apache Tomcat

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perl module: Expect 1.21

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perl module: IO-stty .3

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perl module: IO-tty 1.10

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IPMItool 1.8.10.4

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Java Secure Channel (JSCH) for SSH2 0.1.42

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JavaScript InfoVis Toolkit (JIT) 1.1.3

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xmlpull 1.1

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YUI (Yahoo User Interface) Library Compressor 2.4.2

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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That's all there is to it!

libintl-perl 1.20

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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rpm 4.1

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Sarissa 0.9.6.1

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this,

non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Other

Bouncy Castle Crypto API 1.45

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libxml2 2.7.8

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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2.4.1	2.4	2005	PSF	yes
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Mersenne Twister

=====

The `_random` module includes code based on a download from <http://www.math.keio.ac.jp/matsumoto/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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<http://www.math.keio.ac.jp/matamoto/emt.html>

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Sockets

=====

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MD5 message digest algorithm

=====

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L. Peter Deutsch

ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.

1999-11-04 lpd Edited comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.

1999-05-03 lpd Original version.

Asynchronous socket services

=====

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

=====

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
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2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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MD5 message digest algorithm

=====
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L. Peter Deutsch

ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.

1999-11-04 lpd Edited comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Porschke <porschke@bnl.gov>.

1999-05-03 lpd Original version.

Asynchronous socket services

=====

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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Jean-loup Gailly Mark Adler

jloup@gzip.org madler@alumni.caltech.edu

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